

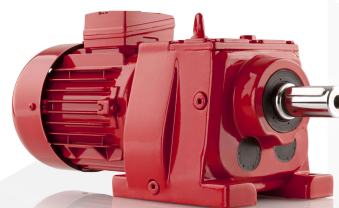
SIPCO i.Mak[®]

Gearboxes and Drives

Helical Gearmotors

Motorreductores Coaxiales

R00

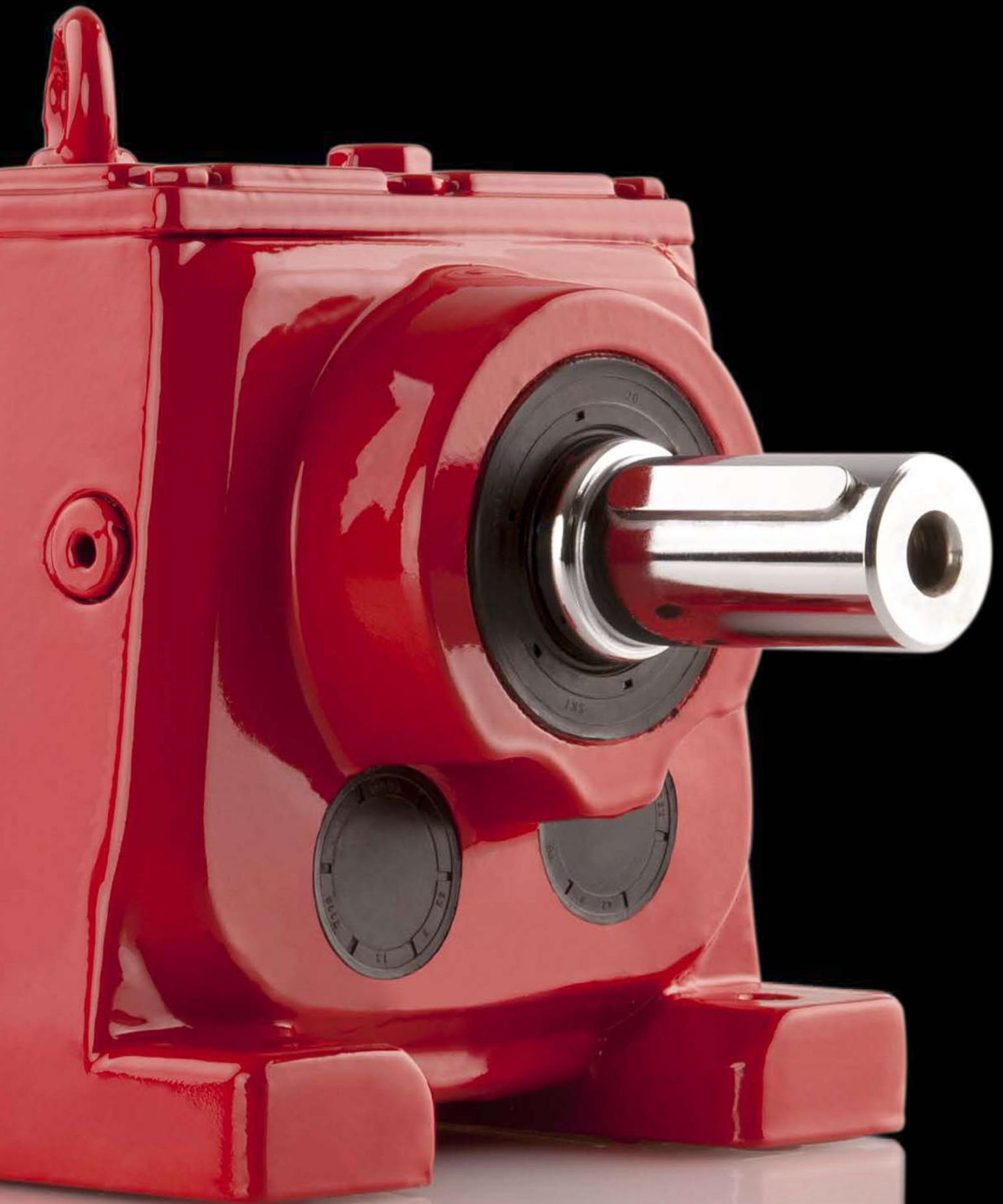


SERIES
50Hz
60Hz
iR

&\$23

EN | ES

; YUfVcl Yg'UbX'8 fjj Yg / Motorreductores



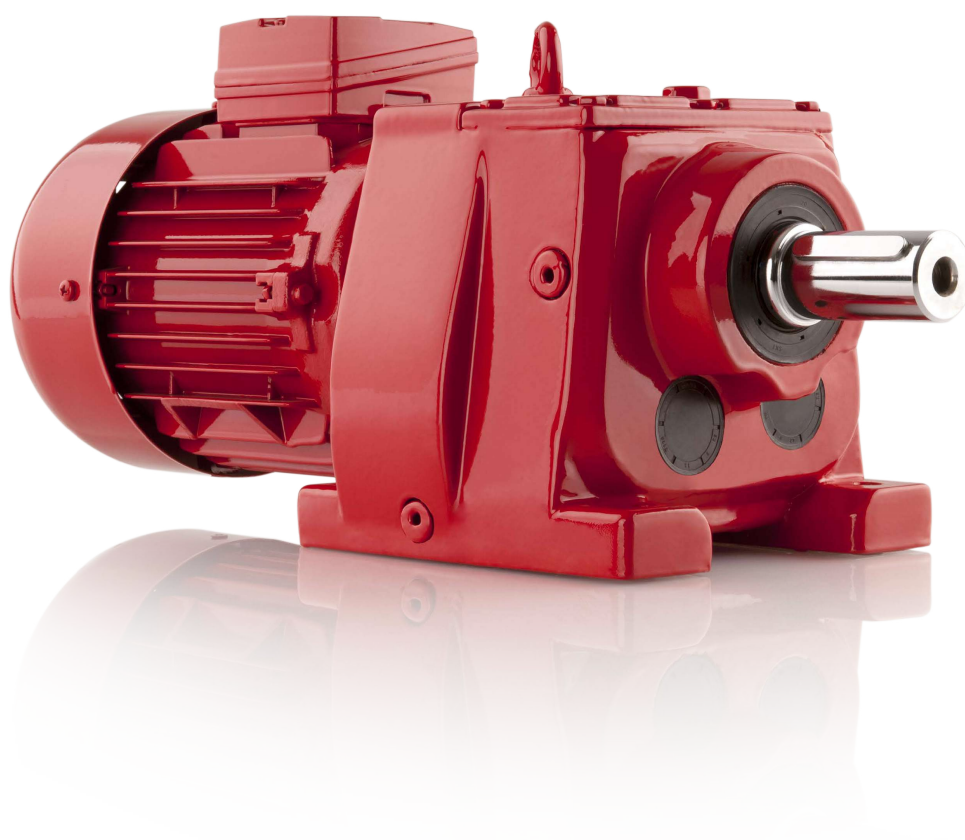
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General Information

Información general

iR

SERIES / SÉRIES



- Cast iron monobloc housing
- 12 Size of housing
- Torque range from 85 to 18000 N.m
- Ratio range from 3 to 27000

- *Carcasa monobloque de hierro fundido*
- *12 Tamaños de unidades*
- *85 - 18000 N.m par*
- *Rango de relación desde 3 hasta 27000*

Descriptions and specifications of the IR serie

Designed to work under heavy loads and in hard conditions, the helical IR serie is perfectly adapted to a wide range of applications. The helical gears are made of 16MnCr5 steel and match the 57 HRC Standards, each gear is heat treated and controlled to make sure that it match the highest standards.

The robust monobloc housing is made of GG22 iron and is machined under state of art standards. The unicast housing of the gearbox and the gears technology is offering a perfect balance between power and space optimization.

The IR Series are designed with an output shaft on the same line as the electrical motors used to power them. Each gear is calculated, designed and ground to provide a noiseless working of the final gearbox. The IR Series gear units are available with output shaft, hollow shaft, double output shaft, extruder and various flange configurations.

12 sizes of housing

Motor configuration from 0.12 kW to 160 kW

Torque ranging from 85 to 18000 N.m

Descripciones y especificaciones de la serie IR

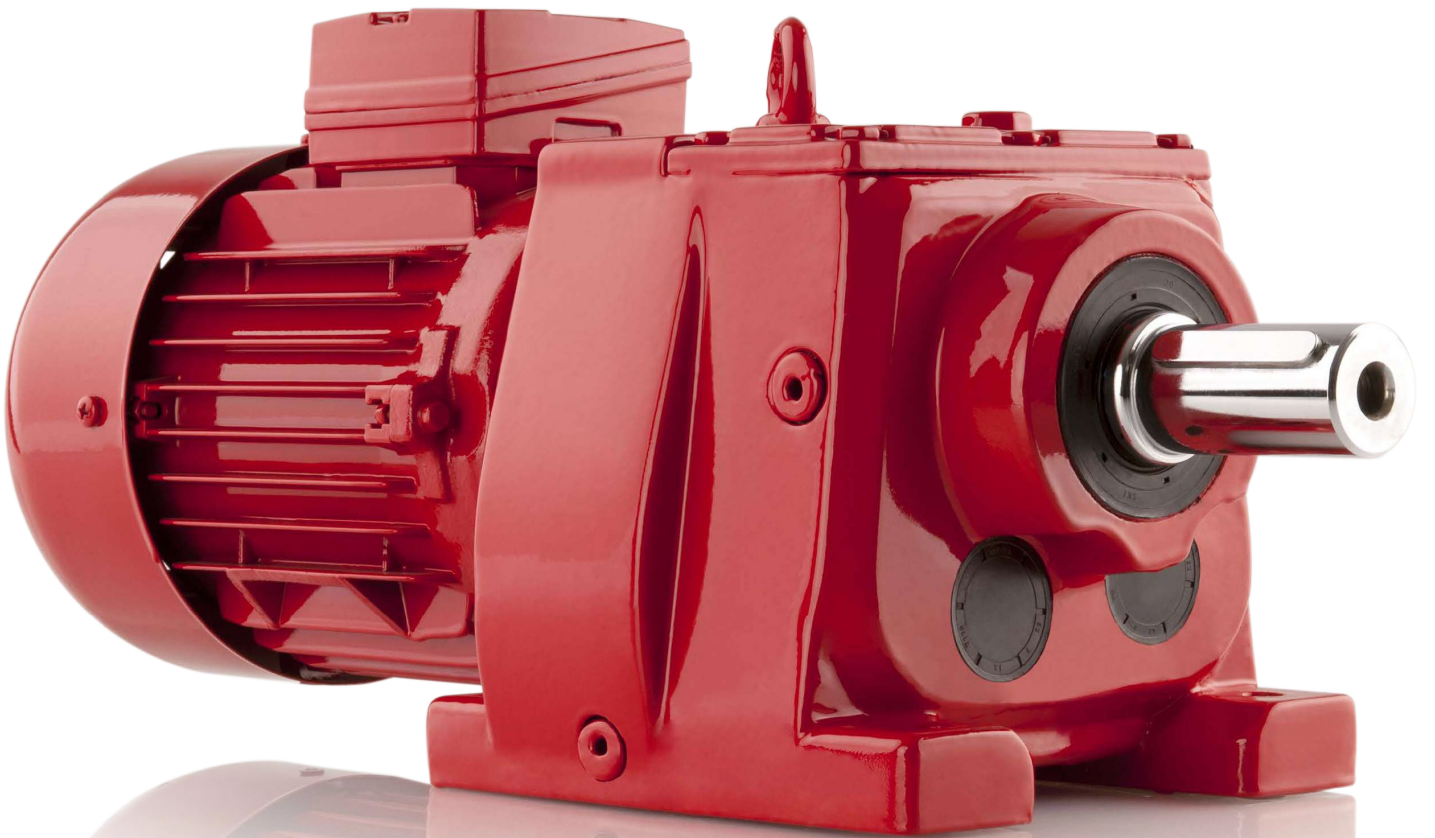
Los reductores de la serie IR está diseñado para trabajar bajo cargas pesadas y condiciones difíciles. La serie IR se adapta perfectamente a una amplia gama de aplicaciones. Los engranajes helicoidales están hechos de acero 16MnCr5 y la dureza es de 57 HRC, cada equipo es tratado térmicamente y controlado para asegurarse de que cumple con los más altos estándares.

La serie IR está diseñada con un eje de salida en la misma línea que los motores eléctricos utilizados para alimentarlos. Cada engranaje se calcula, diseña y rectifica para proporcionar un funcionamiento silencioso del reductores final. Los reductores de la serie IR están disponibles con eje de salida, eje hueco, eje de doble salida, extrusora y varias configuraciones de brida.

12 tamaños de unidades

Configuración del motor de 0,12 kW a 160 kW

Rango de par de 85 a 18000 N.m



Helical Gearmotors

Motorreductores coaxiales

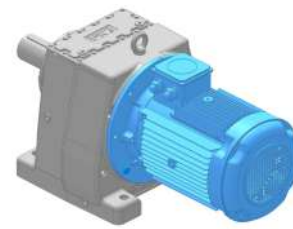
| Code | Input type designation | Tipo de entrada |
|-----------|--|---|
| IRA... | Input shaft - Foot mounted - Output shaft | Eje de entrada - Con pie - Eje de salida |
| IRF... | Input shaft - Flange mounted - Output shaft | Eje de entrada - Brida de salida - Eje de salida |
| IRAF... | Input shaft - Foot and flange mounted - Output shaft | Eje de entrada - Con pie y brida - Eje de salida |
| IRAM... | With motor - Foot mounted - Output shaft | Con motor - Con pie - Eje de salida |
| IRFM... | With motor - Flange mounted - Output shaft | Con motor - Brida de salida - Eje de salida |
| IRAFM... | With motor - Foot and flange mounted - Output shaft | Con motor - Con pie y brida - Eje de salida |
| IRAP... | IEC input flange - Foot mounted - Output shaft | Brida de entrada IEC - Con pie - Eje de salida |
| IRFP... | IEC input flange - Flange mounted - Output shaft | Brida de entrada IEC - Brida de salida - Eje de salida |
| IRAPM... | IEC Flange with motor - Foot mounted - Output shaft | Brida con motor IEC Pam - Con pie - Eje de salida |
| IRFPM... | IEC Flange with motor - Flange mounted - Output shaft | Brida con motor IEC Pam - Brida de salida - Eje de salida |
| IRAFPM... | IEC Flange with motor - Foot and flange mounted Output shaft | Brida con motor IEC Pam - Con pie y brida - Eje de salida |

Input options

Opciones de entrada



iR_
Solid input shaft
Eje de entrada solido



iR_M
With motor
Con motor



iR_P
IEC input flange
Brida de entrada - IEC



iR_PM
IEW input flange with motor
Brida de entrada IEC con motor

Motor options / Opciones para motores

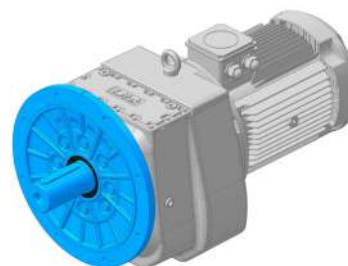
| Code | Options | Opciones |
|------|--------------------------------|--------------------------------|
| BR | Brake | Freno |
| BRH | Brake with hand release | Freno manual |
| BD | Double brake | Freno doble |
| BDH | Double brake with hand release | Doble frenos con volante |
| E | Encoder | Condificador |
| EMK | Electromagnetic clutches | Embragues electromagnéticos |
| CF | External fan | Ventilador externo |
| FG | Canopy | Dosel |
| U | Without fan | Sin ventilador |
| M | Mono phase motor | Motor monofásico |
| BS | Backstop | Mecanismos de irreversibilidad |

Output Options

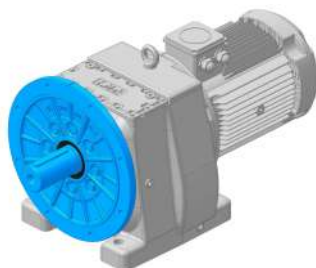
Opciones de salida



IRA...
Foot mounted - Output shaft
Con pie - Eje de salida



IRF...
Output shaft - Flange mounted
Eje de salida - Brida de salida



IRAF...
Output shaft - Foot mounted and output flange
Eje de salida - Con pie y brida

Output shaft / Eje de salida

| Code | Options | Opciones |
|------|--------------------------|--------------------------------|
| 111 | Special shaft dimensions | Dimensiones especiales del eje |
| 112 | Special shaft materials | Materiales especiales del eje |
| 113 | Hardened shaft | Eje cementados |
| 114 | Shaft with screw | Eje con tornillo |
| 115 | Shaft with multiple key | Eje con llave multiple |

Input shaft / Eje de entrada

| Code | Options | Opciones |
|------|---------------------------|-----------------------------|
| 131 | Dimensions of the shaft | Dimensiones del eje |
| 132 | Material of special shaft | Materiales del eje especial |
| 133 | Hardened steel shaft | Eje de acero cementados |
| 134 | Hollow shaft with screw | Eje hueco con tornillo eje |
| 135 | Spécial input shaft | De entrada especial |
| 136 | Shaft with screw | Eje con tornillo |

Output flange / Brida de salida

| Code | Options | Opciones |
|------|-------------------------------------|---|
| 141 | Dimensions of special output flange | Dimensiones de la brida de salida |
| 142 | Material of special output flange | Especial material de la brida de salida |
| 143 | Optional output flange | Especial brida de salida opcional |
| 144 | Special output flange | Brida de salida especial |

***In the case your configuration require the production of a special flange**
En el caso en que su configuración requiera de producción de una brida especial

Input flange / Brida de entrada

| Code | Options | Opciones |
|------|----------------------------------|---|
| 151 | Special input flange | Brida de entrada especial |
| 152 | Material of special input flange | Material de la brida de salida especial |
| 153 | Special output shaft | Eje de salida especial |
| 154 | IEC B14 Flange | Brida IEC B14 |
| 155 | IEC B5 Flange | Brida IEC B5 |
| 156 | IEC PAM with integrated coupling | Brida de entrada (IEC) integrado con acoplamiento |
| 157 | NEMA input flange | NEMA brida de entrada |

***In the case your configuration require the the production of a special flange**
En el caso en que su configuración requiera de producción de una brida especial

Oil / Aceites

| Code | Options | Opciones |
|------|---|--|
| 211 | Synthetic oil VG 220 (SHC 630) | Aceite sintético Vg 220 (Shc 630) |
| 212 | Food compatible oil VG 220 (CIBUS 220) | Aceite para la industria agroalimentaria Vg 220 (Cibus 220) |
| 213 | Cold resistant oil -40C° VG 220 (SHC 630) | Aceite resistente a temperaturas bajas -40 C° Vg 220 (Shc 630) |

Seal-cover / Retenes

| Code | Options | Opciones |
|------|-------------------------------|---------------------------------------|
| 221 | Dimensions of special seal | Dimensiones especiales de los retenes |
| 222 | Dimensions of special cover | Dimensiones especiales de la cubierta |
| 223 | Special brand of seal | Marca especial del los retenes |
| 224 | Special brand of cover | Marca especial de la cubierta |
| 225 | Viton seal | Sello viton |
| 226 | Special configuration of seal | Configuración especial de los retenes |
| 227 | Dust cover | Cubierta de polvo |

Bearing / Rodamientos

| Code | Options | Opciones |
|------|-------------------------------|--|
| 231 | Reinforced output bearing | Rodamiento de salida reforzado |
| 232 | Reinforced input bearing | Rodamiento de entrada reforzado |
| 233 | Special brand of bearing | Marca especial del rodamientos |
| 234 | Special dimensions of bearing | Dimensiones especiales del rodamientos |
| 235 | Backstop bearing (CW) | Rodamiento de barrera (CW) |
| 236 | Backstop bearing (CCW) | Rodamiento de barrera (CCW) |

Housing / Carcasa

| Code | Options | Opciones |
|------|---------------------------|-------------------------------------|
| 241 | Special housing | Carcasa especial |
| 242 | Special housing materials | Materiales especiales de la cracasa |

Paint / Pintura

| Code | Options | Opciones |
|------|----------------------|---------------------------|
| 251 | Special paint color | Pintura de color especial |
| 252 | Special paint type | Tipo de pintura especial |
| 253 | Epoxy paint | Pintura epoxi |
| 254 | Acrylic paint | Pintura acrílica |
| 255 | Water based paint | Pintura a base de agua |
| 256 | Anti-corrosion paint | Pintura anticorrosión |

Gears / Engranajes

| Code | Options | Opciones |
|------|--------------------------|-----------------------------------|
| 261* | Special gear | Engranaje especial |
| 262 | Gear ratio (Catalogue) | Relación de tansmisión (Catalogo) |

* 261 and 262 codes are equivalent / Los códigos 261 y 262 son equivalentes

Voltage and frequency / Voltaje y frecuencia

| Code | Options | Opciones |
|------|-------------------|---------------------|
| 311 | Special voltage | Voltaje especial |
| 312 | Special frequency | Frecuencia especial |

*400 V 50 Hz are considered as standard / 400 V 50 Hz Son consideradas como estándar

IP Classification / Clasificación IP

| Code | Options | Opciones |
|------|---------|----------|
| 321 | IP 54 | IP 54 |
| 322 | IP 56 | IP 56 |
| 323 | IP 65 | IP 65 |
| 324 | IP 66 | IP 66 |

IP 55 is our standard / IP 55 es considerada como estándar

Isolation class / Clases de aislamiento

| Code | Options | Opciones |
|------|-----------|-----------|
| 331 | B - class | Clase – B |
| 332 | H - class | Clase – H |

* F class is accepted as a standard / Clase – F es aceptada como estándar

* Adapted for outside environment with temperature in between 0 C° and 40 C°
 Adaptado para el ambiente exterior con temperaturas entre 0 C° y 40 C°

Bearing / Rodamiento

| Code | Options | Opciones |
|------|-------------------------------|------------------------------------|
| 341 | Bearing for hot environment | Rodamiento para altas temperaturas |
| 342 | Bearing for cold environment | Rodamiento para bajas temperaturas |
| 343 | Isolated bearing | Rodamiento aislado |
| 344 | Bearing with greasing nipples | Rodamiento con engrasadores |
| 345 | Backstop bearing (CW) | Rodamiento de barrera (CW) |
| 346 | Backstop bearing (CCW) | Rodamiento de barrera (CCW) |

* For outside environment with temperature out of 0C° and 40 C° consult our technical team.

Para yemperaturas exteriores fuera de 0 C° y 40 C° consulte con nuestro equipo técnico

Brand / Marca

| Code | Options | Opciones |
|------|-------------|---------------------|
| 351 | Gamak Motor | Gamak Motor |
| 352 | Volt Motor | Volt Elektrik Motor |
| 353 | Aemot Motor | Aemot Motor |
| 354 | Wat Motor | Wat Motor |
| 356 | Diğer | Diger |

Efficiency classifications / Clases de eficiencia

| Code | Options | Opciones |
|------|---------|----------|
| 361 | IE1 | IE1 |
| 362 | IE3 | IE3 |
| 363 | IE4 | IE4 |

* IE2 is the standart category / IE2 es la categoría estándar

Brake's brand / Marcas de freno

| Code | Options | Opciones |
|------|-------------|---------------|
| 411 | EMF brake | Freno – EMF |
| 412 | Fatih brake | Freno – Fatih |
| 413 | Other | Otros |

Type of brake / Clases de freno

| Code | Options | Opciones |
|------|---------------------------|-----------------------------|
| 421 | 220 V cooler | 220 V refrigerante |
| 422 | 24 V cooler | 24 V refrigerante |
| 423 | 220 V without cooler | 220 V sin refrigerante |
| 424 | 24 V without cooler | 24 V sin refrigerante |
| 425 | Double disk brake | Freno de doble disco |
| 426 | Special brake type | Tipo de freno especial |
| 427 | Special voltage for brake | Voltaje especial para freno |

*The brake without cooling are installed without fan or cover / El freno sin refrigeracion es instalado sin ventilador o cubierta

Encoder / Rotativo

| Code | Options | Opciones |
|------|-------------------------------|--|
| 431 | HPL 100 Pulse rotary encoder | HPL 100 codificador de pulso rotativo |
| 432 | HPL 360 Pulse rotary encoder | HPL 360 codificador de pulso rotativo |
| 433 | HPL 500 Pulse rotary encoder | HPL 500 codificador de pulso rotativo |
| 434 | HPL 1024 Pulse rotary encoder | HPL 1024 codificador de pulso rotativo |
| 435 | HPL 2048 Pulse rotary encoder | HPL 2048 codificador de pulso rotativo |
| 436 | HTL 1024 Pulse rotary encoder | HTL 1024 codificador de pulso rotativo |
| 437 | HTL 2048 Pulse rotary encoder | HTL 2048 codificador de pulso rotativo |
| 438 | TTL 1024 Pulse rotary encoder | TTL 1024 codificador de pulso rotativo |
| 439 | TTL 2048 Pulse rotary encoder | TTL 2048 codificador de pulso rotativo |
| 440 | Others | Otros |

*For different type of encoder contact our sales team / Para otro tipo de codificadores, contáctese con nuestro equipo de ventas

Thermistor and heater / Termistor y calentador

| Code | Options | Opciones |
|------|--------------------|------------------------|
| 441 | PTC X 1 thermistor | Ptc X 1 termistor |
| 442 | Bimetallic switch | Interruptor bimetalico |
| 443 | Pressure sensor | Sensor de presión |
| 444 | 110 V coil heat | 110 V bobina de calor |
| 445 | 220 V colt hear | 220 V bobina de calor |
| 446 | PT 100 | PT 100 |

External fan / Ventilador externo

| Code | Options | Opciones |
|------|---------------|---------------|
| 451 | 24 VDC (EBM) | 24 VDC (EBM) |
| 452 | 230 VAC (EBM) | 230 VAC (EBM) |
| 453 | 380 VAC (EBM) | 380 VAC (EBM) |
| 454 | 230 VAC | 230 VAC |
| 455 | 380 VAC | 380 VAC |

Special motor / Motor especial

| Code | Options | Opciones |
|------|-------------------------------|---------------------------------|
| 461 | Servo motor | Motor Servo |
| 462 | DC motor | Motor DC |
| 463 | Vector motor | Motor vector |
| 464 | Tork motor | Motor de par |
| 465 | Hydraulic motor | Motor hidráulico |
| 466 | Compressed air motor | Motor de aire comprimido |
| 467 | Explosion proof motor | Motor anti-explósión |
| 468 | Synchronous reluctance motors | Motor de reluctancia sincrónica |
| 469 | Synchronous motors | Motor sincrónico |
| 470 | Customer's motor | Motor del cliente |

*Our factory is not providing such motors / Para otro tipo de codificadores, contáctese con nuestro equipo de ventas
Motors installed in our factory / Los motores son instalados en nuestra fabrica

Service Factor (Fs)

Value of the service factor of a gearbox depends on all technical and characteristic specifications of a driven machine.

Generally machines have three types of loading characteristics:

1. UNIFORM LOAD (U)
2. MODERATE LOAD (M)
3. HEAVY LOAD (H)

Even if the torques required by three different machines operating at three different load specifications are equal.

Gearbox of the machine operating under heavy load conditions should have greater service factor.

Daily working period has effect on gearbox elements due to the materials fatigue of working parts.

It must be taken into account that all machines are subject to the greatest load at the first start, so that the number of starts has also effect on service factor

This is an example how to use the service factor given in the catalogue.

Load specification of machine should be determined first, from Table 1 in our example, the machine machine is CHAIN BUCKET EXCAVATOR driven by electric motor has HEAVY load specification and daily operation time is 24 hours. So that minimum service factor $F = 2$ is taken from Table 2.

Factor de servicio (Fs)

El valor de factor de servicio de reductores depende de todas las especificaciones técnica y características de una máquina accionada. En general, las máquinas tienen tres tipos de características de carga:

1. CARGA UNIFORME (U)
2. CARGA MODERADA (M)
3. CARGA PESADA (H)

Las especificaciones de carga permanecen iguales cuando tres máquinas diferentes están sujetas a cargas independientes.

El reductor de la máquina que funciona bajo condiciones de carga pesada debería tener un factor de servicio mayor.

El período de servicio diario tiene efecto sobre los elementos del reductor debido a la fatiga de los materiales de las piezas de trabajo.

Se debe tener un cuenta que todas las máquinas están sujetas a la mayor carga en el primer arranque, por lo que en número de arranques también tiene efecto en el factor de servicio.

Este es un ejemplo de cómo usar el factor de servicio dado en el catálogo.

La especificación de carga de una máquina debe determinarse primero, de la tabla 1 en nuestro ejemplo, la máquina es una excavadora de cadena accionada por un motor eléctrico que tiene una especificación de carga pesada y el servicio diario es de 24 horas. De modo que el factor de servicio mínimo $F_s=2$ se toma de la Tabla 2.

| Excavators | | Excavadoras | |
|--------------------------------|---|--|---|
| Chain-Bucket excavators | H | Excavadora de cadena | H |
| Travelling gears (Caterpillar) | H | Mecanismos de translación (Orugas) | |
| Travelling gears (Rails) | M | Mecanismos de translación (sobre rail) | M |
| Manoevring winches | U | Grúas de maniobra | U |
| Pumps | M | Bombas | M |
| Bucket wheels | H | Ruedas de paletas de excavadores | H |
| Slewing gears | M | Mecanismo de orientacion (giratorios) | M |

| Building Machines | | Máquinas De Construcción | |
|---------------------------|---|--|---|
| Hoists | U | Mecanismos de elevación | U |
| Concrete mixers | M | Hormigoneras | M |
| Road contruction machines | M | Máquinas de construcción de carreteras | M |

| Conveyor | | Transportador | |
|--------------------------------|---|---|---|
| Through chain conveyors | M | Transportador a través de cadenas | M |
| Link conveyors | M | Transportador de enlace | M |
| Belt conveyors (Bulk Goods) | U | Cinta transportadora (Productos a granel) | U |
| Ballast elevators | M | Elevadores de lastre | M |
| Ballast pocket elevators | M | Elevadores de bolsillo de lastre | M |
| Belt conveyors (Piece Goods) | M | Cinta transportadora (Bienes por pieza) | M |
| Chain conveyors | U | Transportadores de cadena | U |
| Goods lifts | M | Asensores | M |
| Bucket elevators (Flour Goods) | U | Elevadores de cangilones (Productos) | U |
| Screw conveyors | M | Transportador de tornillos sin fin | M |
| Bucket elevators (Piece Goods) | M | Elevadores de cangilones (Bienes por pieza) | M |
| Inclined hoists | H | Polipastos inclinados | H |
| Steel belt conveyors | M | Transportadores de cinta de acero | M |
| Apron conveyors | M | Transportadores de delantal | M |

| Torque Machine Máquina de torsión | Daily Working Period (Hour) Servicio diario (Hora) | Load Characteristics of Machines Características de la carga de las maquinas | | |
|---|--|---|--------------------------------------|----------------------------------|
| | | Uniform Load U Carga uniforme (U) | Moderate Load M Carga mderada (M) | Heavy Load H Carga pesada (H) |
| Elect. Motor / Motor eléc. Turbin / Turbina Hydraulic / Hidráulico | 0.....3 | 0.8 | 1 | 1.5 |
| | 3.....10 | 1 | 1.25 | 1.75 |
| | 10...24 | 1.25 | 1.5 | 2 |
| Piston Machines (4....6 Cylinder) <i>Máquinas de pistones (4....6 Cilindro)</i> | 0.....3 | 1 | 1.25 | 2 |
| | 3.....10 | 1.25 | 1.5 | 2 |
| | 10...24 | 1.5 | 1.75 | 2 |
| Piston Machines (1....2 Cylinder) <i>Máquinas de pistones (1....2 Cilindro)</i> | 0.....3 | 1.25 | 1.5 | 2 |
| | 3.....10 | 1.5 | 1.75 | 2.25 |
| | 10...24 | 1.75 | 2 | 2.5 |

| Chemical Industry | | Industria Química | |
|----------------------------|---|--------------------------------|---|
| Cooling drums | M | Tambores de refrigeración | M |
| Mixers | M | Mezcladores | M |
| Agitators (Liquids) | U | Agitadores (líquidos fluidos) | U |
| Agitators (Semi Liquids) | M | Agitadores (líquidos viscosos) | M |
| Drying drums | M | Tambores secadores | M |
| Centrifuges (Lights) | U | Centrifugas (Ligeras) | U |
| Centrifuges (Heavy) | H | Centrifugas (Viscosos) | H |

| Oil Industry | | Industria Del Aceite | |
|---------------------------|---|---------------------------------|---|
| Pipeline pumps | M | Bombas de tubería | M |
| Rotary drilling equipment | H | Equipos de perforación rotativa | H |

| Fans | | Ventiladores | |
|------------------------------|---|---------------------------------|---|
| Rotary piston blowers | M | Sopladores de pistón rotativo | M |
| Blowers (Axial and Radial) | U | Sopladores (Axiales y radiales) | U |
| Centrifugal | H | Centrifugo | H |

| Rubber Machines | | Máquinas De Goma | |
|-------------------------|---|----------------------|---|
| Extruders and calenders | H | Extrusoras | H |
| Pug mills | H | Amasadoras | H |
| Mixers | M | Mezcladoras | M |
| Rolling mills | H | Trenes de laminación | H |

| Wood Working Machine | | Industria Maderera | |
|-----------------------|---|--------------------|---|
| Backers | H | Prensa de madera | H |
| Planing machines | M | Cepilladoras | M |
| Wood working machines | U | Corte de madera | U |
| Band saws | H | Sierras de bandas | H |

| Washing Machines | | Lavadoras | |
|------------------|---|--------------------|---|
| Washing machines | U | Máquinas de lavar | U |
| Tumblers | M | Tambores secadores | M |

| Torque Machine <i>Máquina de torsión</i> | Daily Working Period (Hour) <i>Servicio diario (Hora)</i> | Load Characteristics of Machines <i>Características de carga de las maquinas</i> | | |
|---|---|---|--|---|
| | | Uniform Load U <i>Carga uniforme (U)</i> | Moderate Load M <i>Carga moderada (M)</i> | Heavy Load H <i>Carga pesada (H)</i> |
| Elect. Motor / Motor eléc. Turbin / Turbina Hydraulic / Hidráulico | 0.....3 | 0.8 | 1 | 1.5 |
| | 3....10 | 1 | 1.25 | 1.75 |
| | 10...24 | 1.25 | 1.5 | 2 |
| Piston Machines (4....6 Cylinder) <i>Máquinas de pistones (4....6 Cilindro)</i> | 0.....3 | 1 | 1.25 | 2 |
| | 3....10 | 1.25 | 1.5 | 2 |
| | 10...24 | 1.5 | 1.75 | 2 |
| Piston Machines (1....2 Cylinder) <i>Máquinas de pistones (1....2 Cilindro)</i> | 0.....3 | 1.25 | 1.5 | 2 |
| | 3....10 | 1.5 | 1.75 | 2.25 |
| | 10...24 | 1.75 | 2 | 2.5 |

| Cranes | | Grúas | |
|--------------------------|---|-------------------------|---|
| Derricking jib boom gear | H | Grua pluma | H |
| Travelling gears | U | Grúas de carretilla | U |
| Hoist gears | H | Engranajes de elevación | H |
| Slewing gears | U | Engranajes de giro | U |

| Metal Working Machines | | Metalurgia y Trabajo de los Metales | |
|-------------------------------------|---|---|---|
| Planing machine | S | Aplanadoras | S |
| Hammer | S | Martillo | S |
| Engraving machine | S | Máquina De Grabado | S |
| Presses | H | Prensas | H |
| Shears | M | Tijeras | M |
| Forging presses | H | Prensas De Forjar | H |
| Machines tools (Main Drives) | M | Máquinas de herramientas (Unidades principales) | M |
| Machines tools (Auxiliary Drives) | U | Máquinas de herramientas (Unidades auxiliares) | U |

| Food Industry Machines | | Industria Alimenticia | |
|--|---|--|---|
| Filling machines (Bottles, Containers) | U | Máquinas de llenado (Botellas, contenedores) | U |
| Kneading machines | M | Amasadoras | M |
| Packaging machines | U | Embaladoras | U |
| Cane crushers | M | Prensas de caña | M |
| Cane cutters | M | Cortadoras de caña | M |
| Cane millis | H | Trituradoras de caña | H |
| Sugar beet cutters | M | Cortadoras de remolacha azucarera | M |
| Sugar beet washers | M | Agitadores de remolacha azucarera | M |

| Pumps | | Bombas | |
|---------------------------------------|---|----------------------------------|---|
| Reciprocating Pumps (Q1 / 100) | H | Bombas de pistón (Q1/100) | H |
| pumps (Q1 / 100 : 1 / 20) Turbin | M | Bombas de pistón (Q1/100 : 1/20) | M |
| Centrifugal pumps (Light - Liquids) | U | Centrifugas (Líquidos ligeros) | U |
| Centrifugal pumps (Semi - Liquids) | M | Centrifugas (Líquidos viscosos) | M |

| Torque Machine Máquina de torsión | Daily Working Period (Hour) Servicio diario (Hora) | Load Characteristics of Machines Características de carga de las máquinas | | |
|---|--|--|---------------------------------------|----------------------------------|
| | | Uniform Load U Carga uniforme (U) | Moderate Load M Carga moderada (M) | Heavy Load H Carga pesada (H) |
| Elect. Motor / Motor eléc. Turbin / Turbina Hydraulic / Hidráulico | 0.....3 | 0.8 | 1 | 1.5 |
| | 3.....10 | 1 | 1.25 | 1.75 |
| | 10...24 | 1.25 | 1.5 | 2 |
| Piston Machines (4....6 Cylinder) Máquinas de Pistones (4....6 Cilindro) | 0.....3 | 1 | 1.25 | 2 |
| | 3.....10 | 1.25 | 1.5 | 2 |
| | 10...24 | 1.5 | 1.75 | 2 |
| Piston Machines (1....2 Cylinder) Máquinas de Pistones (1....2 Cilindro) | 0.....3 | 1.25 | 1.5 | 2 |
| | 3.....10 | 1.5 | 1.75 | 2.25 |
| | 10...24 | 1.75 | 2 | 2.5 |

| Paper Industry Machines | | Industria del papel | |
|-------------------------|---|------------------------------|---|
| Glazing Cylinders | H | Cilindros de acristalamiento | H |
| Hollenders | M | Holleros | M |
| Pulpers | H | Desfibradoras de pulpa | H |
| Calender | H | Calandras | H |
| Stone Presses | H | Prensas de piedra | H |
| Vacum Presses | H | Prensas de vacío | H |
| Drying Cylinders | H | Cilindros secadores | H |

| Stone and Clay Working Machines | | Máquinas Para Piedra Y Arcilla | |
|---------------------------------|---|--------------------------------|---|
| Breakers | H | Interruptores | H |
| Rotary ovens | M | Hornos rotatorios | M |
| Hammer mills | H | Molinos de martillo | H |
| Ball mills | H | Molinos de bola | H |
| Beater mills | H | Molinos batidores | H |
| Brick presses | H | Prensas de ladrillo | H |

| Textile Machines | | Maquinas Textiles | |
|------------------------------|---|------------------------------|---|
| Batchers (Q1 / 100) | M | Dosificadores (Q1/100) | M |
| Printing and dyeing machines | M | Máquinas de estampar y tenir | M |
| Looms | M | Telares | M |

| Compressors | | Compresores | |
|-------------------|---|-------------------|---|
| Turbo compressors | M | Turbo compresores | M |

| Metal Rolling Mills | | Laminadores De Metal | |
|------------------------------|---|---|---|
| Sheet metal cutting machines | H | Maquinas cortadoras de láminas de metal | H |
| Roller adjustment drivers | M | Controladoras de ajuste de rodillo | M |
| Billet shears | H | Motosierras | H |
| Descaling machines | H | Maquinas descalcificadoras | H |
| Wire drawing machines | M | Máquinas de trefilado | M |
| Cooling beds | H | Camas de enfriamiento | H |
| Roller tables (Lights) | M | Mesas de rodillo (Ligeras) | M |
| Roller tables (Heavy) | H | Mesas de rodillo (Pesadas) | H |
| Manipulators | H | Cilindros | H |

| Torque Machine <i>Máquina de torsión</i> | Daily Working Period (Hour) <i>Servicio diario (Hora)</i> | Load Characteristics of Machines <i>Características de carga de las maquinas</i> | | |
|---|---|---|--|---|
| | | Uniform Load U <i>Carga uniforme (U)</i> | Moderate Load M <i>Carga moderada (M)</i> | Heavy Load H <i>Carga pesada (H)</i> |
| Elect. Motor / Motor eléc. Turbin / Turbina Hydraulic / Hidráulico | 0.....3 | 0.8 | 1 | 1.5 |
| | 3....10 | 1 | 1.25 | 1.75 |
| | 10...24 | 1.25 | 1.5 | 2 |
| Piston Machines (4....6 Cylinder) <i>Máquinas de Pistones (4....6 Cilindro)</i> | 0.....3 | 1 | 1.25 | 2 |
| | 3....10 | 1.25 | 1.5 | 2 |
| | 10...24 | 1.5 | 1.75 | 2 |
| Piston Machines (1....2 Cylinder) <i>Máquinas de Pistones (1....2 Cilindro)</i> | 0.....3 | 1.25 | 1.5 | 2 |
| | 3....10 | 1.5 | 1.75 | 2.25 |
| | 10...24 | 1.75 | 2 | 2.5 |

Determining of Overhung Loads

Type of transmission component mounting output or input shaft has to be consideration to find occurred overhung loads. Some transmission component factor (f_i) is given at the table below.

| <u>Transmission Component</u> | <u>Transmission Component Factor (f_i)</u> | <u>Explanation</u> |
|-------------------------------|---|--------------------|
| Gear | 1,15 | < 17 teeth |
| Sprockets | 1,40 | < 13 teeth |
| Sprockets | 1,25 | < 20 teeth |
| V- Belt Pulleys | 1,75 | Pre-tension |
| Flat Belt Pulleys | 2,50 | Pre-tension |
| Trigger Belt Pulleys | 1,50 | Pre-tension |

Overhung Loads on shaft is find by at the formula below:

$$F_R = \frac{Md \cdot 2000}{d_0} \cdot f_i$$

$F_R [N]$ = Overhung Load
 $M_d [Nm]$ = Torque
 $d_0 [mm]$ = Mean Diameter of Transmission Component
 f_i = Transmission Component Factor

You can Choose, by seeing overhung loads belong to gearboxes in our catalog according to determined results by considering these values. The given overhung loads on the tables are determined according to working life, on $S_f = 1$ and force which are applied to the midpoint of the shaft

Determinación de las cargas radiales

Tipo de montaje de componente de transmisión del eje de salida/entrada debe ser considerado para encontrar las cargas radiales factores de algunos componentes de transmisión se dan en la tabla a continuación.

| <u>Componente De Transmisión</u> | <u>Factor del Transmisión (f_i)</u> | <u>Explicación</u> |
|----------------------------------|--|--------------------|
| Engranaje | 1,15 | < 17 diş |
| Piñones | 1,40 | < 13 diş |
| Piñones | 1,25 | < 20 diş |
| V-Poleas De Correa | 1,75 | par de pretensión |
| Poleas De Correa Planas | 2,50 | par de pretensión |
| Gatillo De Poleas | 1,50 | par de pretensión |

Las cargas radiales sobre el eje se encuentra en la formula a continuación

$$F_R = \frac{Md \cdot 2000}{d_0} \cdot f_i$$

$F_R [N]$ = Fr(n)=Radiales
 $M_d [Nm]$ = Md(nm)= P
 $d_0 [mm]$ = D0(mm)=diámetro medio del componente de transmisión
 f_i = Fi=factor del componente de transmisión

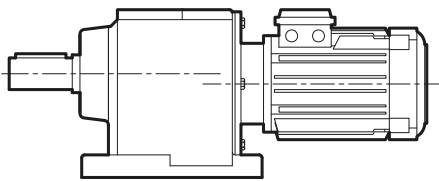
Puede elegir, al ver que las cargas radiales pertenecen a reductores en nuestro catálogo de acuerdo con los resultados obtenidos teniendo en cuenta los valores. Las cargas recomendadas son determinadas según la vida laboral, $s_f=1$ y la fuerza que se aplica en el medio del eje.

Calculation of Overhung Load for State Acting on Output Shaft

Calculo de las cargas radiales sobre el estado que actúa sobre el eje de salida

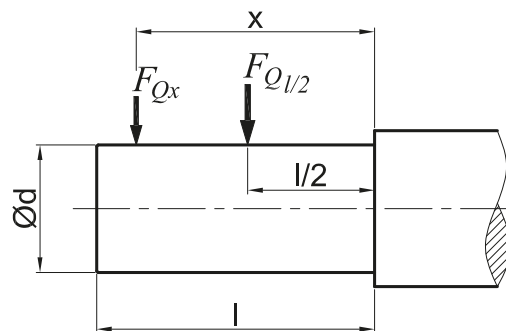
Tables of Fixe Values for Calculation of Overhung Load

Tablas de valores fijos para el cálculo de las cargas radiales



Monoblok IR Series / Monoblok IR Série

| iR Series / iR Série | | | | |
|----------------------|--------|-------|-----|-----|
| Tip/ Type | k | c | d | l |
| iR 42 - 43 | 94.5 | 74.5 | 20 | 40 |
| iR 52 - 53 | 111.1 | 86.1 | 25 | 50 |
| iR 621 - 631 | 133 | 108 | 30 | 60 |
| iR 62 - 63 | 143 | 108 | 35 | 70 |
| iR 721-731 | 153.5 | 118.5 | 35 | 70 |
| iR 72 - 73 | 169.5 | 129.5 | 40 | 80 |
| iR 82 - 83 | 209.5 | 159.5 | 50 | 100 |
| iR 92 - 93 | 242 | 182 | 60 | 120 |
| iR 102 - 103 | 282 | 217 | 70 | 130 |
| iR 122 - 123 | 315.25 | 231 | 90 | 170 |
| iR 142 - 143 | 384 | 279 | 110 | 210 |
| iR 152 - 153 | 417 | 312 | 120 | 210 |



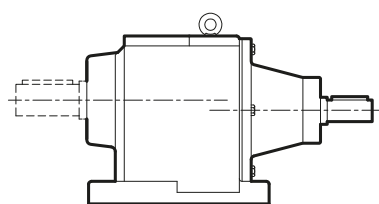
If overhung load is not applied at the midpoint of output shaft; it is calculated by $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$

Si la carga radial no se aplica en el punto medio del eje de entrada; se calcula por

$$F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$$

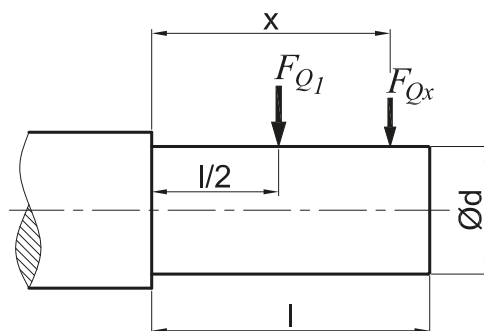
Calculation of Overhung Load for State Acting on Input Shaft

Calculo de la carga radial sobre el eje hueco



Monoblok ĩR Series / Monoblok ĩR S rie

| ĩR Series / ĩR S rie | | | | |
|----------------------|-------|-------|----|-----|
| Tip/ Type | k | c | d | l |
| ĩR 42 - 43 | 83.5 | 63.5 | 19 | 40 |
| ĩR 52 - 53 | 52.5 | 67.5 | 24 | 50 |
| ĩR 621 - 631 | 110 | 77 | 24 | 50 |
| ĩR 62 - 63 | 110 | 77 | 24 | 50 |
| ĩR 721 - 731 | 119 | 89 | 28 | 60 |
| ĩR 72 - 73 | 119 | 89 | 28 | 60 |
| IR 82 - 83 | 123 | 88 | 34 | 70 |
| IR 92 - 93 | 159.5 | 109.5 | 48 | 100 |
| IR 102 - 103 | 187,5 | 132,5 | 55 | 110 |
| IR 122 - 123 | 233 | 178 | 55 | 110 |
| IR 142 - 143 | 233 | 178 | 55 | 110 |
| IR 152 - 153 | 271,5 | 201,5 | 70 | 140 |



If overhung load is not applied at the midpoint of input shaft; it is calculated by $F_{Qx} = F_{Q_{1/2}} \cdot \frac{k}{c+x}$

Tablas de valores fijos para el cc lculo de la carga radial

$$F_{Qx} = F_{Q_{1/2}} \cdot \frac{k}{c+x}$$

1500 d/d Motors / Motores

| Code | Power (KW) | Speed (r.p.m.) | Rated Current | Torque (Nm) | Efficiency | | IE Class | Duty Type |
|--------|---------------|-------------------|---------------|-------------|------------|------|----------|--------------|
| | | | | | 100% | 75% | | |
| Código | Potencia (Kw) | Velocidad (R.P.M) | Amperio | Par (Nm) | Eficiencia | | Clase IE | Clase De Uso |
| | | | | | 100% | 75% | | |
| 63M4a | 0,12 | 1365 | 0,41 | 0,84 | 57,1 | 57,1 | IE1 | S1 |
| 63M4b | 0,18 | 1340 | 0,60 | 1,28 | 59,7 | 59,7 | IE1 | S1 |
| C63M4 | 0,25 | 1350 | 0,95 | 1,77 | 60,7 | 60,7 | IE1 | S1 |
| 71M4a | 0,25 | 1380 | 0,81 | 1,73 | 61,9 | 61,8 | IE1 | S1 |
| 71M4b | 0,37 | 1390 | 1,15 | 2,54 | 68,1 | 68,1 | IE1 | S1 |
| C71M4 | 0,55 | 1385 | 1,50 | 3,75 | 68,6 | 68,6 | IE1 | S1 |
| 80M4a | 0,55 | 1365 | 1,60 | 3,85 | 69,1 | 69,0 | IE1 | S1 |
| 80M4b | 0,75 | 1410 | 2,10 | 5,08 | 79,6 | 79,6 | IE2 | S1 |
| 90S4 | 1,1 | 1420 | 2,60 | 7,39 | 82,0 | 82,0 | IE2 | S1 |
| 90L4 | 1,5 | 1430 | 3,50 | 10,02 | 83,0 | 83,0 | IE2 | S1 |
| C90L4 | 2,2 | 1435 | 5,00 | 14,60 | 84,4 | 84,5 | IE2 | S1 |
| 100L4a | 2,2 | 1435 | 5,00 | 14,60 | 84,5 | 84,6 | IE2 | S1 |
| 100L4b | 3 | 1435 | 6,60 | 20,00 | 85,5 | 85,7 | IE2 | S1 |
| C100L4 | 4 | 1455 | 8,20 | 26,30 | 86,5 | 86,6 | IE2 | S1 |
| 112M4 | 4 | 1455 | 8,20 | 26,30 | 86,7 | 86,8 | IE2 | S1 |
| 132S4 | 5,5 | 1465 | 11,20 | 35,90 | 87,9 | 88,8 | IE2 | S1 |
| 132M4 | 7,5 | 1465 | 15,40 | 48,90 | 89,0 | 89,1 | IE2 | S1 |
| C132M4 | 11 | 1465 | 21,00 | 71,70 | 89,9 | 90,0 | IE2 | S1 |
| 160M4 | 11 | 1465 | 21,00 | 71,70 | 90,0 | 90,1 | IE2 | S1 |
| 160L4 | 15 | 1465 | 29,80 | 97,80 | 90,6 | 90,7 | IE2 | S1 |
| 180M4 | 18,5 | 1470 | 34,50 | 120,00 | 91,3 | 91,4 | IE2 | S1 |
| 180L4 | 22 | 1470 | 42,50 | 143,00 | 91,7 | 91,4 | IE2 | S1 |
| 200L4 | 30 | 1470 | 55,00 | 195,00 | 92,5 | 92,6 | IE2 | S1 |
| 225S4 | 37 | 1470 | 67,00 | 240,00 | 92,7 | 92,7 | IE2 | S1 |
| 225M4 | 45 | 1470 | 80,00 | 292,00 | 93,3 | 93,3 | IE2 | S1 |
| 250M4 | 55 | 1475 | 96,00 | 356,00 | 93,7 | 93,8 | IE2 | S1 |
| 280S4 | 75 | 1480 | 133,00 | 484,00 | 94,0 | 94,1 | IE2 | S1 |
| 280M4 | 90 | 1480 | 158,00 | 581,00 | 94,3 | 94,5 | IE2 | S1 |
| 315S4 | 110 | 1485 | 195,00 | 707,00 | 94,5 | 94,5 | IE2 | S1 |
| 315M4 | 132 | 1485 | 230,00 | 849,00 | 94,7 | 94,5 | IE2 | S1 |
| 315M4 | 160 | 1485 | 280,00 | 1029,00 | 94,9 | 94,9 | IE2 | S1 |
| 315L4 | 185 | 1485 | 323,00 | 1190,00 | 95,1 | 95,1 | IE2 | S1 |
| 315L4 | 200 | 1485 | 350,00 | 1286,00 | 95,1 | 95,1 | IE2 | S1 |

1000 d/d Motors / Motores

| Code | Power (KW) | Speed (r.p.m.) | Rated Current | Torque (Nm) | Efficiency | | IE Class | Duty Type |
|--------|---------------|-------------------|---------------|-------------|------------|------|----------|--------------|
| | | | | | 100% | 75% | | |
| Código | Potencia (Kw) | Velocidad (R.P.M) | Amperio | Torque (Nm) | Eficiencia | | Clase IE | Clase De Uso |
| | | | | | 100% | 75% | | |
| 71M6a | 0,18 | 915 | 0,61 | 1,88 | 63,0 | 62,9 | IE1 | S1 |
| 71M6b | 0,25 | 915 | 0,83 | 2,61 | 63,8 | 63,7 | IE1 | S1 |
| 80M6a | 0,37 | 910 | 1,10 | 3,88 | 72,9 | 72,8 | IE1 | S1 |
| 80M6b | 0,55 | 890 | 1,50 | 5,90 | 70,4 | 70,3 | IE1 | S1 |
| 90S6 | 0,75 | 920 | 2,00 | 7,79 | 75,9 | 75,9 | IE2 | S1 |
| 90L6 | 1,1 | 930 | 2,90 | 11,30 | 78,1 | 78,1 | IE2 | S1 |
| 100L6 | 1,5 | 945 | 3,60 | 15,20 | 79,8 | 79,7 | IE2 | S1 |
| 112M6 | 2,2 | 950 | 5,40 | 22,00 | 81,8 | 81,7 | IE2 | S1 |
| 132S6 | 3 | 960 | 6,90 | 29,80 | 83,3 | 83,2 | IE2 | S1 |
| 132M6a | 4 | 960 | 9,00 | 39,80 | 84,6 | 84,5 | IE2 | S1 |
| 132M6b | 5,5 | 960 | 12,30 | 54,70 | 86,0 | 86,0 | IE2 | S1 |
| 160M6 | 7,5 | 960 | 15,00 | 74,60 | 87,2 | 87,2 | IE2 | S1 |
| 160L6 | 11 | 965 | 22,00 | 108,90 | 88,7 | 88,7 | IE2 | S1 |
| 180L6 | 15 | 965 | 29,00 | 148,00 | 89,7 | 89,7 | IE2 | S1 |
| 200L6a | 18,5 | 975 | 38,00 | 182,00 | 90,4 | 90,4 | IE2 | S1 |

Brakes

1) Brakes without cooling fan

Brake which is mounted on fan side of electric motor by cancelling cooling fan and fan cover of motor. This type of brake is used for a short period running motors.

2) Brakes with cooling fan

Brake which is mounted on fan side of electric motor by extending motor shaft and fan cover to use fan. This type of brake is necessary for continuously running motors.

3) Brakes with micro switch

Because of high starting current of motors delayed disengagement of magnetic brakes undesirable conditions occur. To prevent this situation, starting of motor is provided after disengagement of brake by means of brake by means of a micro switch installed on the brake. This type of brake is especially suitable for high power geared motors.

Non-delayed or delayed braking of geared motors

Delayed or non-delayed geared motors are used in many industrial machines. Therefore, brakes are designed to operate in both delayed and non-delayed conditions. This is supplied with each brake mounted geared motor.

Please do not forget that the brakes are connected for delayed operations standard.

Frenos

1) Frenos sin ventilador

Freno que está montado en el lado del ventilador del motor eléctrico cancelando el ventilador de enfriamiento y la cubierta del ventilador del motor. Este tipo de freno se utiliza durante un período corto de funcionamiento de motores.

2) Frenos con ventilador

Freno que se monta en el lado del ventilador del motor eléctrico extendiendo el eje del motor y la cubierta del ventilador para usar el ventilador. Este tipo de freno es necesario para motores en funcionamiento continuo.

3) Frenos con micro interruptor

Debido a la alta corriente de arranque de los motores, se producen condiciones indeseables de desacoplamiento retardado de los frenos magnéticos. Para prevenir esta situación el motor se pondrá en marcha después de la desconexión de freno por medio de un micro switch. Este tipo de freno es adecuado para motorreductores de alta potencia.

Frenado no retardado o retardado de motorreductores

Los motorreductores retardados o no retardados se utilizan en muchas máquinas industriales. Por lo tanto, los frenos están diseñados para funcionar tanto en condiciones retardadas como no retardadas. Se suministra con cada motorreductor montado en el freno.

Por favor, tenga en cuenta que cada freno está conectado al estándar de operaciones retrasadas.

Operating voltage of brakes

Brakes are manufactured to operate at 24V-DC or 220V-AC. 220V brakes are connected to the motor terminal box directly, but 220/30V transformer with rectifier unit needed for 24V operating brakes. This unit will be supplied if required.

Geared brake motors must be earthed.

Required ordering data for brakes

- 1) Brake torque
- 2) Brake type
- 3) Brake operating voltage.

Please inform as if you need 220/30V transformer with rectifier unit for 24V operating brakes.

Brake connection types

Voltaje de funcionamiento de los frenos

Los frenos son hechos para operar a 24 v-dc o 220/30 v-ac. Los frenos de 220v están conectados directamente al terminal de la caja del motor, pero para el 220/30 v el es necesario un transformador con rectificador para los freno de 24V.

El motoreductor con freno debe de estar conectado a la tierra.

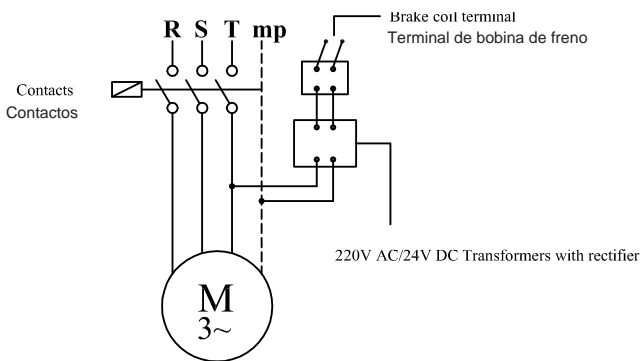
Datos Reuieriods para el pedido de frenos.

- 1) Par de freno
- 2) Tipo de freno
- 3) Voltaje operativo del freno

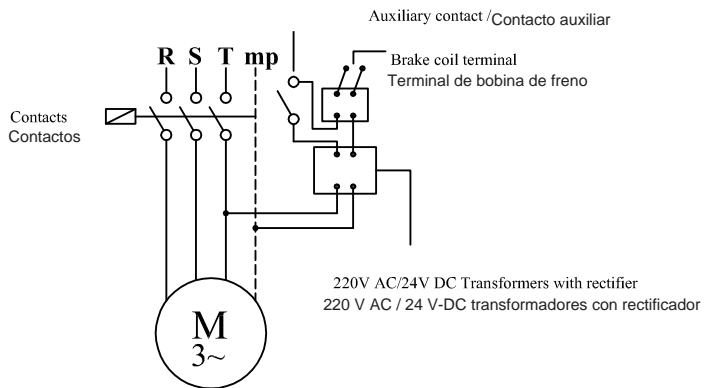
Por favor informe si necesita 220/30V transformador con rectificador para los frenos operativos de 24 v.

Tipos de conexión de frenos

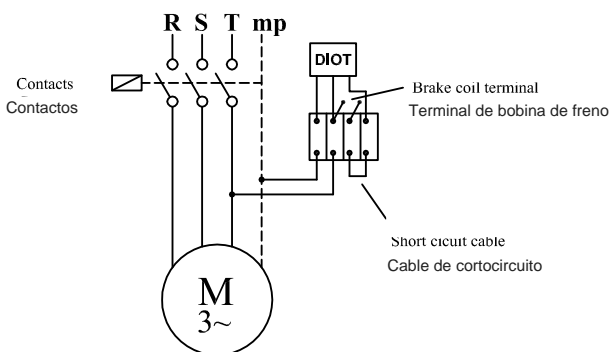
Delayed Running Brake (24V)
Freno de marcha retrasada (24V)



Sudden Running Brake (24V)
Terminal de bobina de freno (24V)



Delayed Running Brake (220V)
Freno de marcha retrasada (220 V)



Sudden Running Brake (220V)
Freno repentino (220 V)

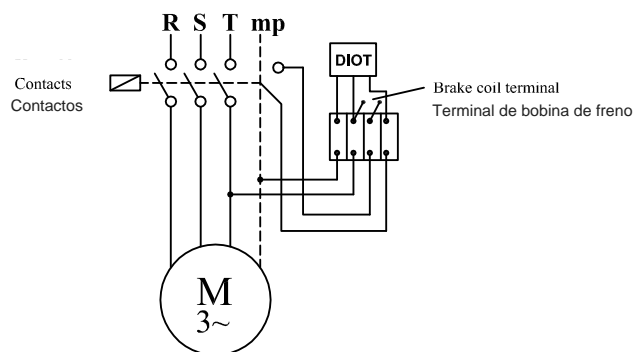


Table 1 / Tabla 1

| Motor Size Tamaño Del Motor | n1 r.p.m | | | |
|--------------------------------|-------------|-------------|-------------|-------------|
| | 750 | 1000 | 1500 | 3000 |
| Power / Potencia [kW] | | | | |
| 63 | | | 0,12 - 0,18 | 0,18 - 0,25 |
| 71 | 0,09 - 0,12 | 0,18 - 0,28 | 0,25 - 0,37 | 0,37 - 0,55 |
| 80 | 0,18 - 0,25 | 0,37 - 0,55 | 0,55 - 0,75 | 0,75 - 1,1 |
| 90 S | 0,37 | 0,75 | 1,1 | 1,5 |
| 90 L | 0,55 | 1,1 | 1,5 | 2,2 |
| 100 | 0,75 - 1,1 | 1,5 | 2,2 - 3 | 3 |
| 112 | 1,5 | 2,2 | 4 | 4 |
| 132 S | 2,2 | 3 | 5,5 | 5,5 - 7,5 |
| 132 M | 3 | 4 - 5,5 | 7,5 | 11 |
| 160 M | 4-5,5 | 7,5 | 11 | 15 |
| 160 L | 7,5 | 11 | 15 | 18,5 |
| 180 M | | | 18,5 | 22 |
| 180 L | 11 | 15 | 22 | |
| 200 | 15 | 18,5 - 22 | 30 | 30 - 37 |
| 225 S | 18,5 | | 37 | |
| 225 M | 22 | 30 | 45 | 45 |
| 250 | 30 | 37 | 55 | 55 |
| 280 S | 37 | 45 | 75 | 75 |
| 280 M | 45 | 55 | 90 | 90 |

Table 2 / Tabla 2

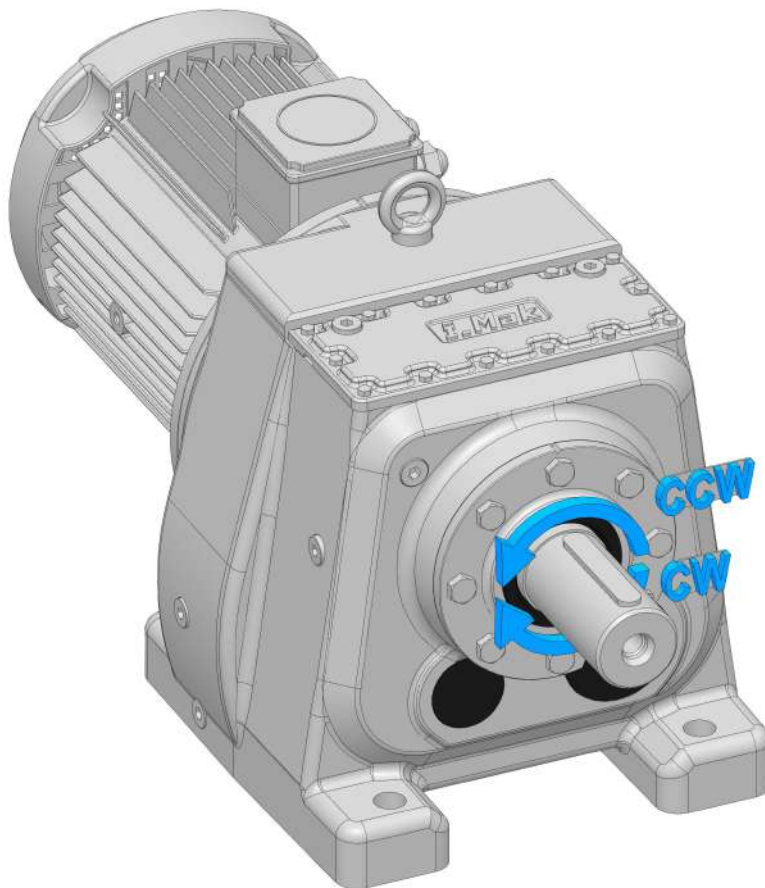
| Motor Size Tamaño del motor | Braking Torque [kgm] Par de frenado [kgm] | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|-----|---|---|----|----|----|----|---------------------------------|-----|---|-----|---|---|----|----|----|----|----|
| | Light braking Freno Ligero | | | | | | | | | Strong braking Freno potente | | | | | | | | | | |
| | 0,5 | 1 | 2,5 | 4 | 5 | 10 | 20 | 30 | 50 | 80 | 0,5 | 1 | 2,5 | 4 | 5 | 10 | 20 | 30 | 50 | 80 |
| 63 | | | | | | | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | |
| 90 S | | | | | | | | | | | | | | | | | | | | |
| 90 L | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | | | | | | |
| 132 S | | | | | | | | | | | | | | | | | | | | |
| 132 M | | | | | | | | | | | | | | | | | | | | |
| 160 M | | | | | | | | | | | | | | | | | | | | |
| 160 L | | | | | | | | | | | | | | | | | | | | |
| 180 M | | | | | | | | | | | | | | | | | | | | |
| 180 L | | | | | | | | | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | | | |
| 225 S | | | | | | | | | | | | | | | | | | | | |
| 225 M | | | | | | | | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | | | | | | | | | |
| 280 S | | | | | | | | | | | | | | | | | | | | |
| 280 M | | | | | | | | | | | | | | | | | | | | |

In certain applications when the machinery stops, the operator would not like the gearbox to slip and lose its adjustment. Under these circumstances, the gearbox would be equipped with a locked ball bearing. Accordingly, the direction of rotation should be noted as shown below.

CCW: Counterclockwise
CW: Clockwise

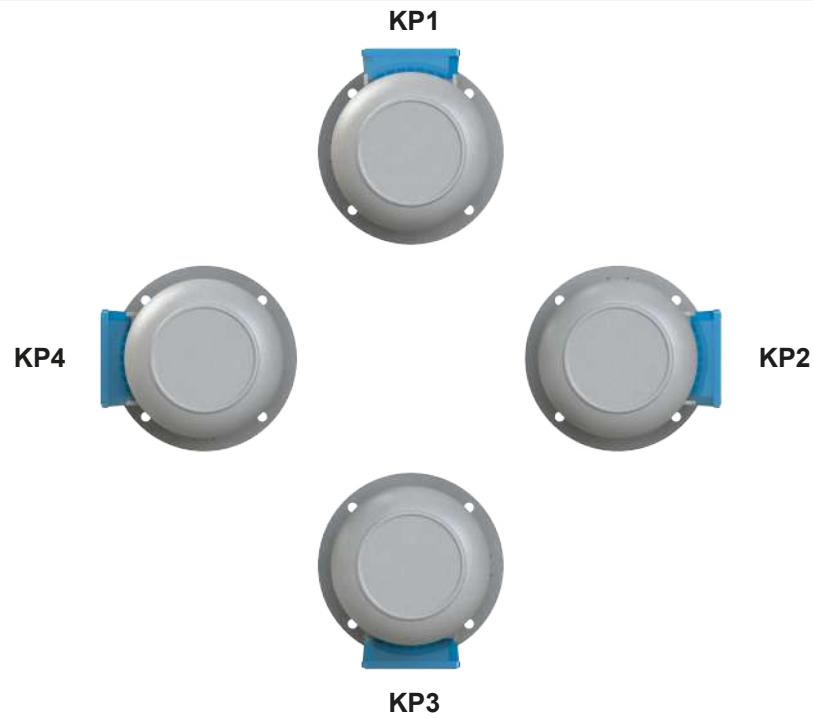
En ciertas aplicaciones cuando la máquina se detiene, al operador no le gustaría que el reductor se deslice y pierda sus ajustes. Debido a esto, el reductor equipada con un rodamiento de bolas bloqueada. Con base en esto, la dirección de la rotación debería ser como se muestra en la imagen.

CCW: En contra de las manecillas del reloj
CW: Manecillas del reloj



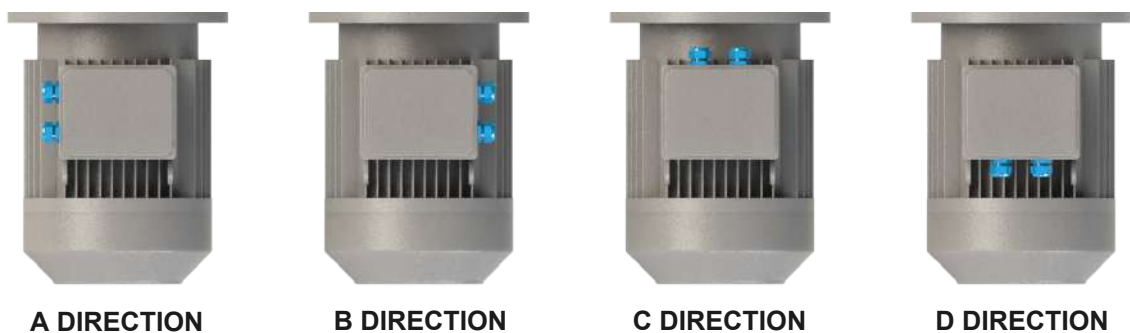
The standard mounting position is "KP1", if the mounting is not during the order, the mounting position is always "KP1"

La posición estándar de montaje es "KP1", si el montaje no es aclarado durante el pedido, la posición de montaje será siempre "KP1".

**Cable Entry**
Cable de entrada

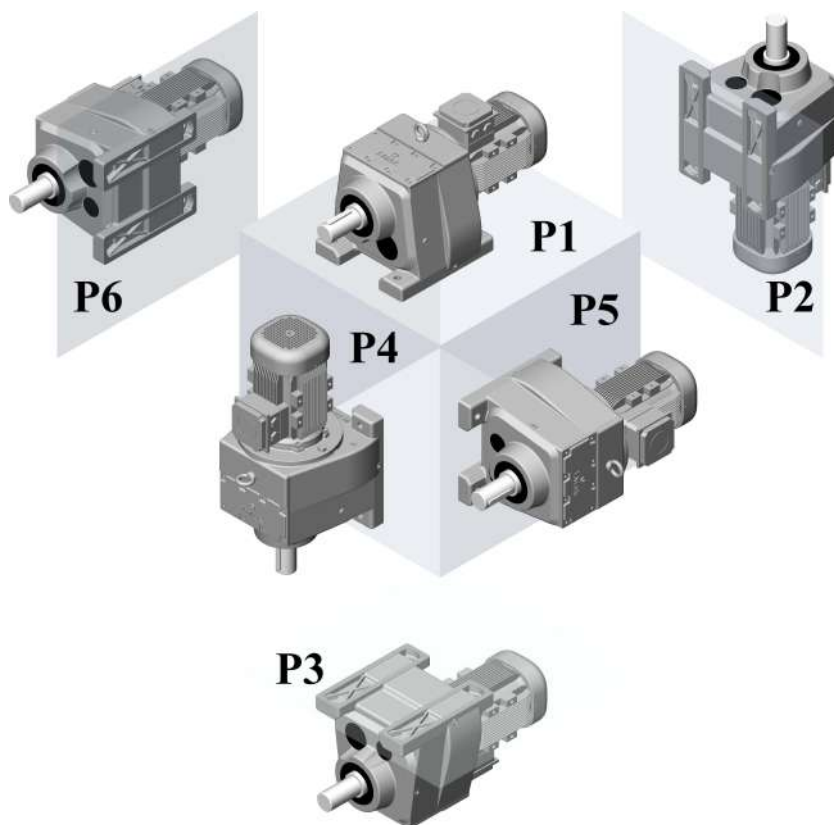
The standard position of the cable entry is "A", if the position is not specified during the order, the mounting position will be accepted as "A"

La posición estándar del cable de entrada es "A", si la posición no es aclarada durante el pedido, se tomara en el montaje la posición "A".



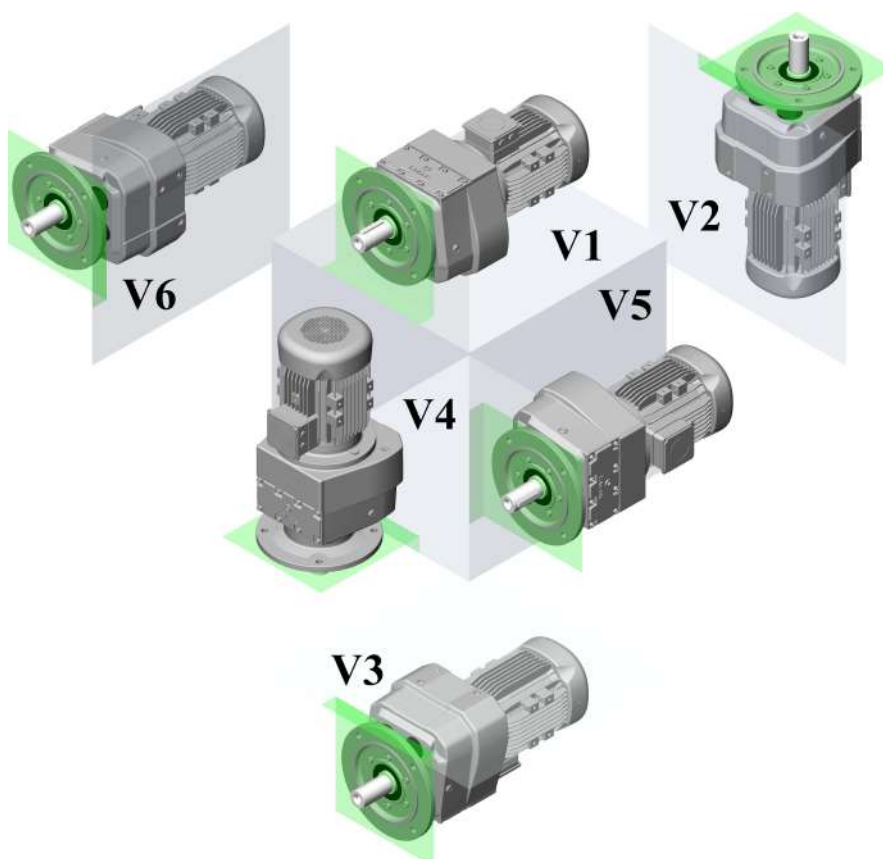
Foot mounted gearboxes positions are defined as "P"

La posiciones de los reductores que están de pie se definen como "P"

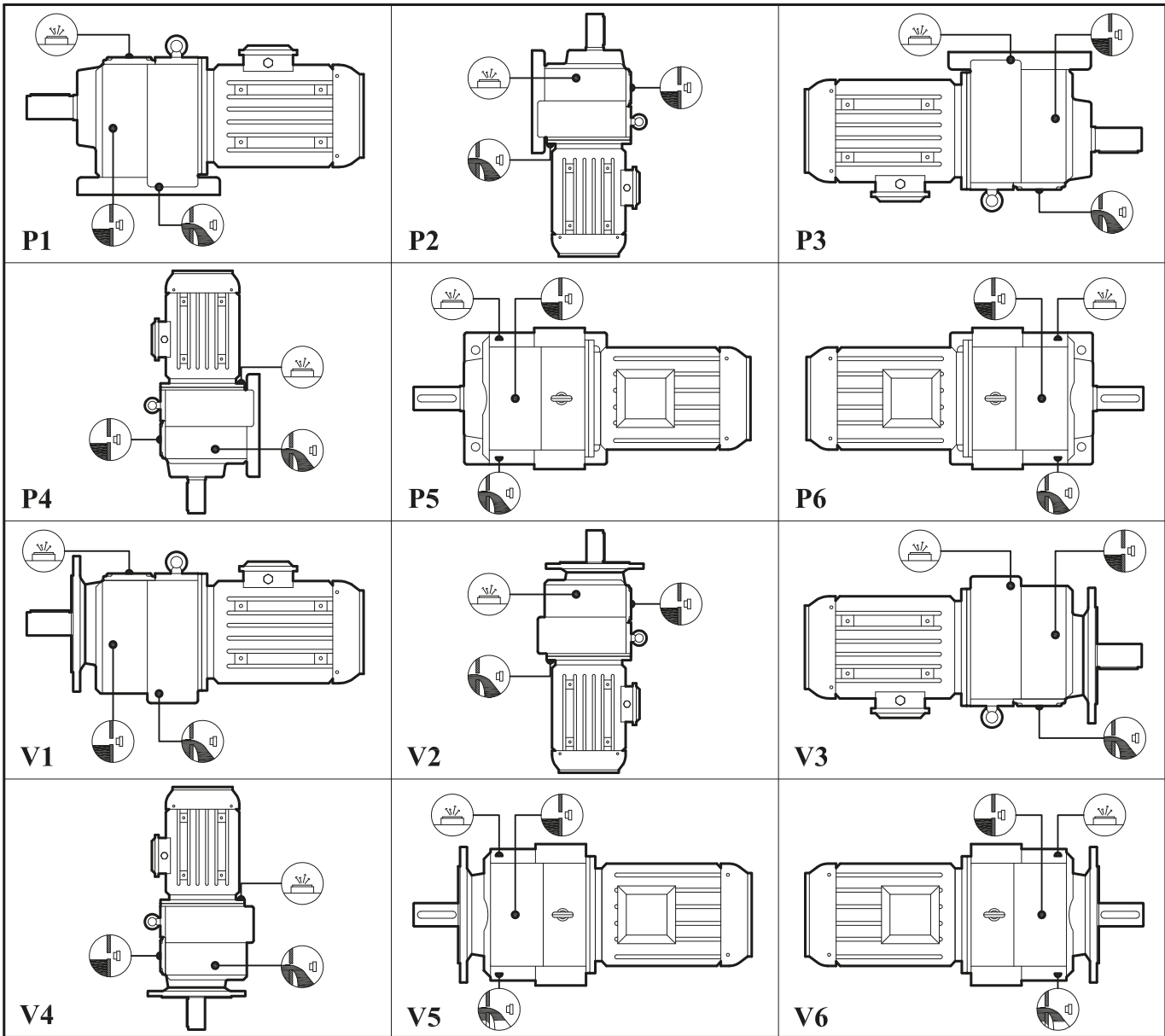


Flange mounted gearboxes position are defined as "V"

Las posiciones de que los reductores están sobre la brida de, se definen como "V"



| Lubricant <i>Tipo de aceite</i> | Viscosity class <i>Grado de viscosidad</i> | DIN 51517-3 | Usage temperature <i>Temperatura de uso</i> C° | Firm <i>Marca</i> | | | | | | |
|--|---|----------------|--|----------------------|--------------|-------------------|------------------|------------------------------|------------------------|--------------------|
| | | | | | | | | | | |
| Mineral Oil Aceite mineral | ISO VG 320 | CLP | -10.....+90 | Mobilgear 600XP320 | Degol BG 320 | Energol GR-XP 320 | OmalaS2 GX 320 | Alpha SP 320 | Klüberoil GEM 1 N 320 | Recompound FL 320 |
| | ISO VG 220 | CLP | -10.....+90 | Mobilgear 600 XP 220 | Degol BG 220 | Energol GR-XP 220 | OmalaS2 GX 220 | Alpha SP 220 | Klüberoil GEM 1 N 220 | Recompound FL 220 |
| | ISO VG 150 | CLP | -10.....+90 | Mobilgear 600 XP 150 | Degol BG 150 | Energol GR-XP 150 | OmalaS2 GX 150 | Alpha SP 150 | Klüberoil GEM 1 N 150 | Recompound FL 150 |
| | ISO VG 100 | CLP | -15.....+90 | Mobilgear 600 XP 100 | - | - | OmalaS2 GX 100 | Alpha SP 100 | Klüberoil GEM 1 N 100 | Recompound FL 100 |
| Synthetic Oil Aceite sintético | ISO VG 320 | CLP HC | -30.....+110 | Mobil SHC Gear 320 | Degol GS 320 | Energol SG-XP320 | OmalaS4 GX V 320 | Optigear Synthetic PD 320 ES | Klübersynth GEM 4N 320 | Recompound Syn 320 |
| | ISO VG 220 | CLP HC | -35.....+110 | Mobil SHC Gear 220 | Degol GS 220 | Energol SG-XP220 | OmalaS4 GX V 220 | Optigear Synthetic PD 220 ES | Klübersynth GEM 4N 220 | Recompound Syn 220 |
| | ISO VG 150 | CLP HC | -40.....+110 | Mobil SHC Gear 150 | Degol GS 150 | Energol SG-XP150 | OmalaS4 GX V 150 | Optigear Synthetic PD 150 ES | Klübersynth GEM 4N 150 | Recompound Syn 150 |
| | ISO VG 100 | CLP HC | -45.....+110 | Mobil SHC 627 | - | - | - | Optigear Synthetic PD 100 ES | Klübersynth GEM 4N 100 | Recompound Syn 100 |



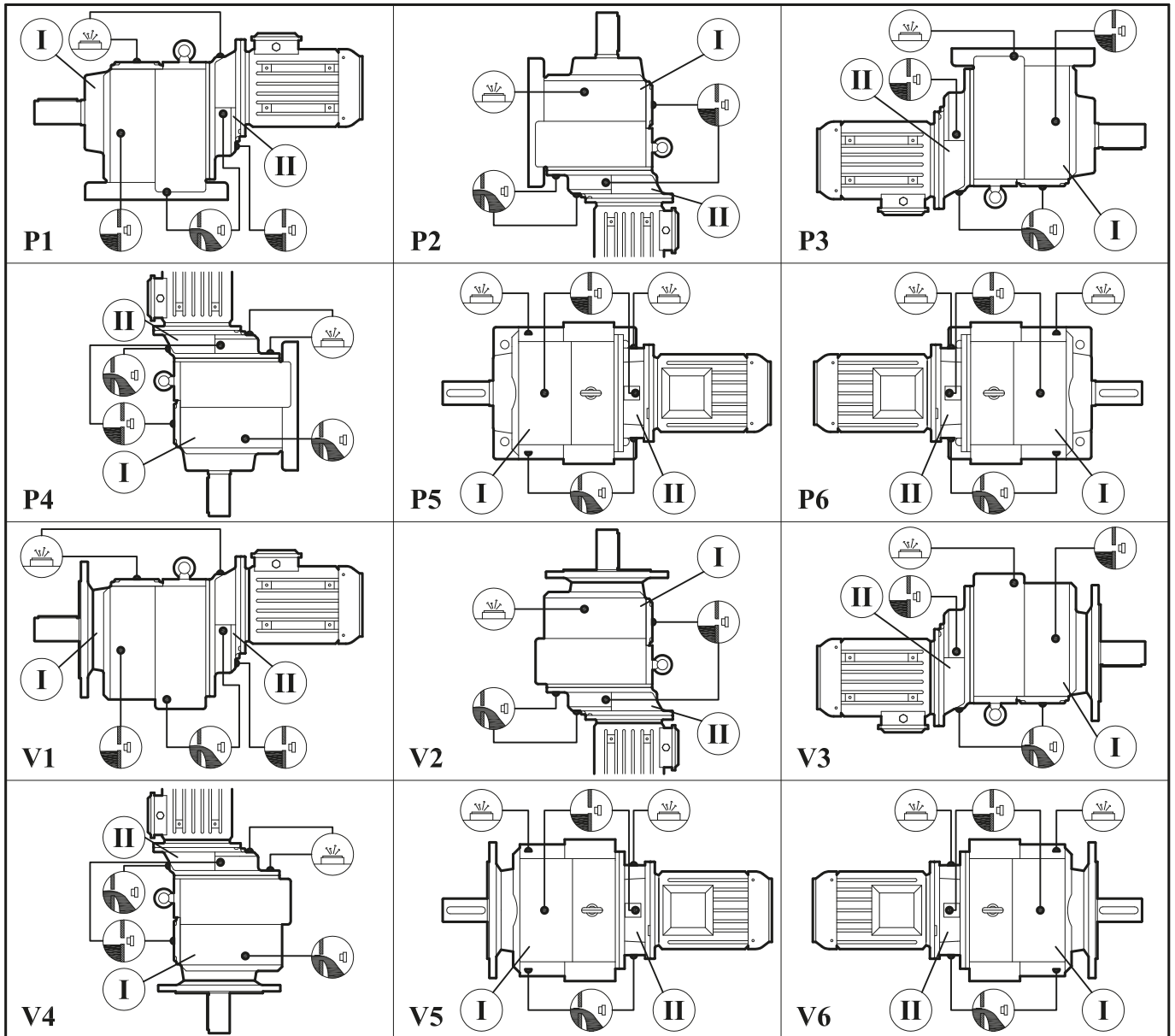
Symbols :  Oil Filling and Vent Plug
Símbolos :  Llenado y ventilación del aceite

 Oil Level
 Nivel de aceite

 Oil Drain Plug
 Tapón de aceite

| Type <i>Tipo</i> | Oil Quantities for Mounting Positions (Liter) <i>Cantidad de aceite según la posición del montaje (litro)</i> | | | | | | | | | | | |
|---------------------|--|----|----|------------|----|----|------------|----|----|------------|----|----|
| | P1 | V1 | P2 | V2 | P4 | V4 | P3 | V3 | P5 | V5 | P6 | V6 |
| İR... 42 / 43 | 0,4 / 0,35 | | | 0,7 / 0,65 | | | 0,5 / 0,45 | | | 0,5 / 0,45 | | |
| İR... 52 / 53 | 0,8 / 0,75 | | | 1,2 / 1,15 | | | 0,8 / 0,75 | | | 0,8 / 0,75 | | |
| İR... 621 / 631 | 1,25 / 1,1 | | | 1,8 / 1,65 | | | 1,25 / 1,1 | | | 1,25 / 1,1 | | |
| İR... 62 / 63 | 1,25 / 1,1 | | | 1,8 / 1,65 | | | 1,25 / 1,1 | | | 1,25 / 1,1 | | |
| İR... 721 / 731 | 2,2 / 2 | | | 2,7 / 2,5 | | | 2,2 / 2 | | | 2,2 / 2 | | |
| İR... 72 / 73 | 2,5 / 2,3 | | | 3 / 2,8 | | | 2,5 / 2,3 | | | 2,5 / 2,3 | | |
| İR... 82 / 83 | 5,5 / 5 | | | 7,5 / 7 | | | 5,5 / 5 | | | 5,5 / 5 | | |
| İR... 92 / 93 | 9 / 8 | | | 11 / 10 | | | 9 / 8 | | | 9 / 8 | | |
| İR... 102 / 103 | 14 / 13 | | | 17 / 16 | | | 14 / 13 | | | 14 / 13 | | |
| İR... 122 / 123 | 30 / 28 | | | 35 / 33 | | | 30 / 28 | | | 30 / 28 | | |
| İR... 142 / 143 | 38 / 30 | | | 53 / 45 | | | 45 / 39 | | | 38 / 36 | | |
| İR... 152 / 153 | 65 / 60 | | | 102 / 97 | | | 94 / 90 | | | 82 / 75 | | |

Oil Quantities Per Mounting Position / Cantidades de aceite según la posición de montaje

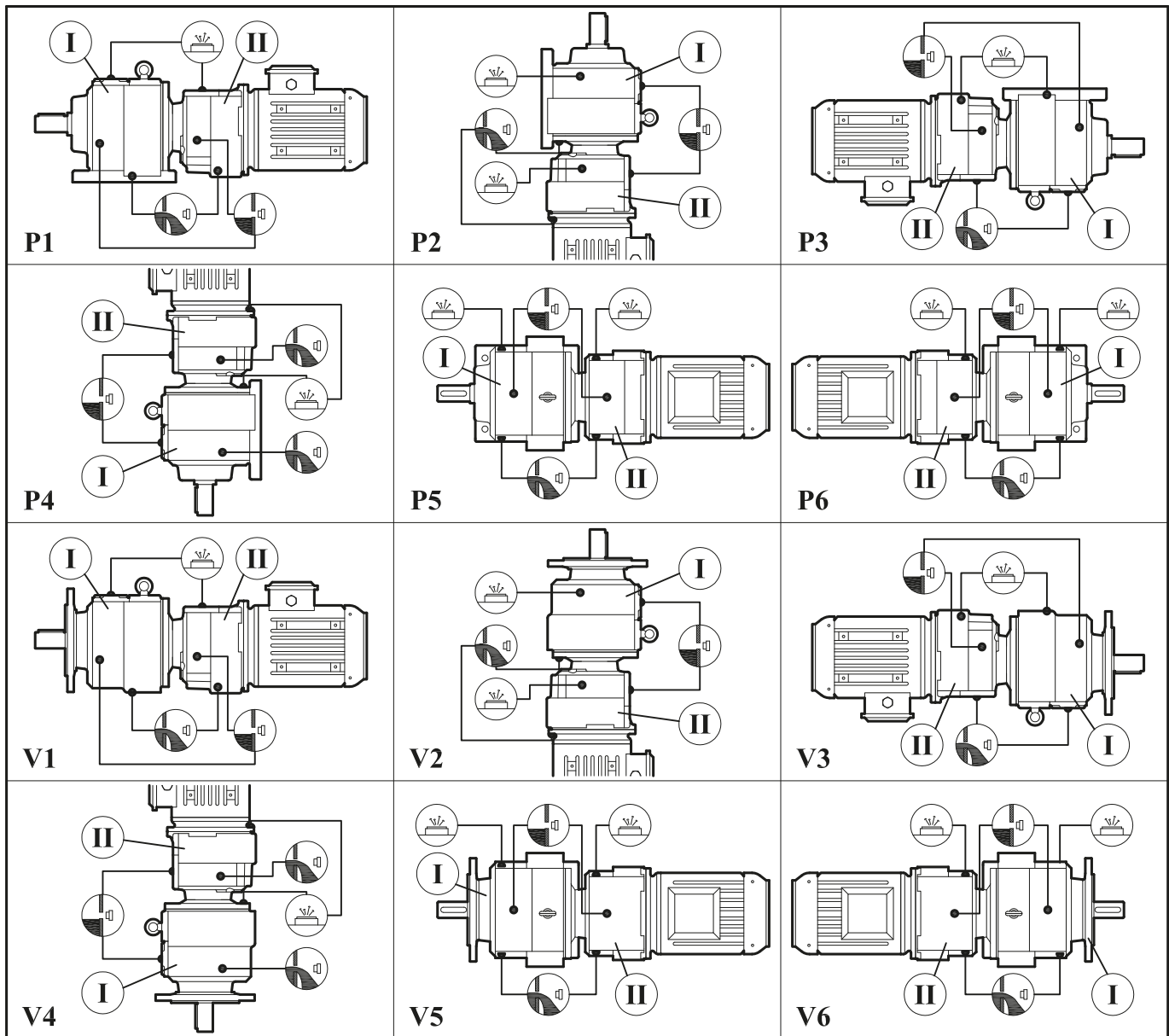


Symbols :  Oil Filling and Vent Plug / Llenado y ventilación del aceite

 Oil Level / Nivel de aceite

 Oil Drain Plug / Tapón de aceite

| Type <i>Tipo</i> | Oil Quantities for Mounting Positions (Liter) <i>Cantidad de aceite según la posición del montaje (Litro)</i> | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|--|
| | P1 | | V1 | | P2 | | V2 | | P3 | | V3 | | P4 | | V4 | | P5 | | V5 | | P6 | | V6 | |
| | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | |
| İR... 64 | 1,1 / 0,1 | | 1,65 / 0,3 | | 1,1 / 0,25 | | 1,65 / 0,2 | | 1,1 / 0,2 | | 1,65 / 0,2 | | 1,1 / 0,2 | | 1,65 / 0,2 | | 1,1 / 0,2 | | 1,65 / 0,2 | | 1,1 / 0,2 | | 1,65 / 0,2 | |
| İR... 741 | 2 / 0,2 | | 2,5 / 0,35 | | 2 / 0,4 | | 2,5 / 0,35 | | 2 / 0,35 | | 2,5 / 0,35 | | 2 / 0,35 | | 2,5 / 0,35 | | 2 / 0,35 | | 2,5 / 0,35 | | 2 / 0,35 | | 2,5 / 0,35 | |
| İR... 74 | 2,3 / 0,2 | | 2,8 / 0,35 | | 2,3 / 0,4 | | 2,8 / 0,35 | | 2,3 / 0,35 | | 2,8 / 0,35 | | 2,3 / 0,35 | | 2,8 / 0,35 | | 2,3 / 0,35 | | 2,8 / 0,35 | | 2,3 / 0,35 | | 2,8 / 0,35 | |
| İR... 84 | 5 / 0,3 | | 7 / 0,75 | | 5 / 0,75 | | 7 / 0,5 | | 5 / 0,5 | | 7 / 0,5 | | 5 / 0,5 | | 7 / 0,5 | | 5 / 0,5 | | 7 / 0,5 | | 5 / 0,5 | | 7 / 0,5 | |
| İR... 94 | 8 / 0,6 | | 10 / 1,2 | | 8 / 1,3 | | 10 / 1,1 | | 8 / 1 | | 10 / 1,1 | | 8 / 1 | | 10 / 1,1 | | 8 / 1 | | 10 / 1,1 | | 8 / 1 | | 10 / 1,1 | |
| İR... 104 | 13 / 0,7 | | 16 / 1,35 | | 13 / 1,8 | | 16 / 1,5 | | 13 / 1,2 | | 16 / 1,5 | | 13 / 1,2 | | 16 / 1,5 | | 13 / 1,2 | | 16 / 1,5 | | 13 / 1,2 | | 16 / 1,5 | |
| İR... 124 | 30 / 1,85 | | 35 / 4 | | 30 / 4,5 | | 35 / 4 | | 30 / 2,75 | | 35 / 4 | | 30 / 2,75 | | 35 / 4 | | 30 / 2,75 | | 35 / 4 | | 30 / 2,75 | | 35 / 4 | |
| İR... 144 | 30 / 1,85 | | 45 / 4 | | 39 / 4,5 | | 45 / 4 | | 36 / 2,75 | | 45 / 4 | | 36 / 2,75 | | 45 / 4 | | 36 / 2,75 | | 45 / 4 | | 36 / 2,75 | | 45 / 4 | |
| İR... 154 | 65 / 4,35 | | 102 / 6,5 | | 94 / 7 | | 102 / 6,5 | | 82 / 5,25 | | 102 / 6,5 | | 82 / 5,25 | | 102 / 6,5 | | 82 / 5,25 | | 102 / 6,5 | | 82 / 5,25 | | 102 / 6,5 | |



Symbols :  Oil Filling and Vent Plug
 Símbolos:  Llenado y ventilación del aceite

 Oil Level
 Nivel de aceite

 Oil Drain Plug
 Tapón de aceite

| Type Tipo | Oil Quantities for Mounting Positions (Liter) Caudal de aceite según la posición del montaje (Litro) | | | | | | | | | | | |
|-----------------|---|----|-------------|----|--------|----|-------------|----|--------|----|-------------|----|
| | P1 | V1 | P2 | V2 | P4 | V4 | P3 | V3 | P5 | V5 | P6 | V6 |
| | I / II | | I / II | | I / II | | I / II | | I / II | | I / II | |
| İR... 52 İR 42 | 0,8 / 0,4 | | 1,2 / 0,7 | | | | 0,8 / 0,5 | | | | 0,8 / 0,5 | |
| İR... 52 İR 43 | 0,8 / 0,35 | | 1,2 / 0,65 | | | | 0,8 / 0,45 | | | | 0,8 / 0,45 | |
| İR... 53 İR 42 | 0,75 / 0,4 | | 1,15 / 0,7 | | | | 0,75 / 0,5 | | | | 0,75 / 0,5 | |
| İR... 53 İR 43 | 0,75 / 0,35 | | 1,15 / 0,65 | | | | 0,75 / 0,45 | | | | 0,75 / 0,45 | |
| İR... 621 İR 52 | 1,25 / 0,8 | | 1,8 / 1,2 | | | | 1,25 / 0,8 | | | | 1,25 / 0,8 | |
| İR... 621 İR 53 | 1,25 / 0,75 | | 1,8 / 1,15 | | | | 1,25 / 0,75 | | | | 1,25 / 0,75 | |
| İR... 631 İR 52 | 1,1 / 0,8 | | 1,65 / 1,2 | | | | 1,1 / 0,8 | | | | 1,1 / 0,8 | |
| İR... 631 İR 53 | 1,1 / 0,75 | | 1,65 / 1,15 | | | | 1,1 / 0,75 | | | | 1,1 / 0,75 | |
| İR... 62 İR 52 | 1,25 / 0,8 | | 1,8 / 1,2 | | | | 1,25 / 0,8 | | | | 1,25 / 0,8 | |
| İR... 62 İR 53 | 1,25 / 0,75 | | 1,8 / 1,15 | | | | 1,25 / 0,75 | | | | 1,25 / 0,75 | |

Oil Quantities Per Mounting Position / Caudales de aceite según la posición de montaje

| Type <i>Tipo</i> | Oil Quantities for Mounting Positions (Liter) <i>Cantidad de aceite según la posición del montaje (Litro)</i> | | | | | | | | | | | |
|---------------------|--|----|-------------|----|----|----|------------|----|------------|----|----|----|
| | P1 | V1 | P2 | V2 | P4 | V4 | P3 | V3 | P5 | V5 | P6 | V6 |
| | I / II | | I / II | | | | I / II | | I / II | | | |
| İR... 63 İR 52 | 1,1 / 0,8 | | 1,65 / 1,2 | | | | 1,1 / 0,8 | | 1,1 / 0,8 | | | |
| İR... 63 İR 53 | 1,1 / 0,75 | | 1,65 / 1,15 | | | | 1,1 / 0,75 | | 1,1 / 0,75 | | | |
| İR... 721 İR 52 | 2,2 / 0,8 | | 2,7 / 1,2 | | | | 2,2 / 0,8 | | 2,2 / 0,8 | | | |
| İR... 721 İR 53 | 2,2 / 0,75 | | 2,7 / 1,15 | | | | 2,2 / 0,75 | | 2,2 / 0,75 | | | |
| İR... 731 İR 52 | 2 / 0,8 | | 2,5 / 1,2 | | | | 2 / 0,8 | | 2 / 0,8 | | | |
| İR... 731 İR 53 | 2 / 0,75 | | 2,5 / 1,15 | | | | 2 / 0,75 | | 2 / 0,75 | | | |
| İR... 72 İR 52 | 2,5 / 0,8 | | 3 / 1,2 | | | | 2,5 / 0,8 | | 2,5 / 0,8 | | | |
| İR... 72 İR 53 | 2,5 / 0,75 | | 3 / 1,15 | | | | 2,5 / 0,75 | | 2,5 / 0,75 | | | |
| İR... 73 İR 52 | 2,3 / 0,8 | | 2,8 / 1,2 | | | | 2,3 / 0,8 | | 2,3 / 0,8 | | | |
| İR... 73 İR 53 | 2,3 / 0,75 | | 2,8 / 1,15 | | | | 2,3 / 0,75 | | 2,3 / 0,75 | | | |
| İR... 82 İR 62 | 5,5 / 1,25 | | 7,5 / 1,8 | | | | 5,5 / 1,25 | | 5,5 / 1,25 | | | |
| İR... 82 İR 63 | 5,5 / 1,1 | | 7,5 / 1,65 | | | | 5,5 / 1,1 | | 5,5 / 1,1 | | | |
| İR... 83 İR 62 | 5 / 1,25 | | 7 / 1,8 | | | | 5 / 1,25 | | 5 / 1,25 | | | |
| İR... 83 İR 63 | 5 / 1,1 | | 7 / 1,65 | | | | 5 / 1,1 | | 5 / 1,1 | | | |
| İR... 92 İR 62 | 9 / 1,25 | | 11 / 1,8 | | | | 9 / 1,25 | | 9 / 1,25 | | | |
| İR... 92 İR 63 | 9 / 1,1 | | 11 / 1,65 | | | | 9 / 1,1 | | 9 / 1,1 | | | |
| İR... 93 İR 62 | 8 / 1,25 | | 10 / 1,8 | | | | 8 / 1,25 | | 8 / 1,25 | | | |
| İR... 93 İR 63 | 8 / 1,1 | | 10 / 1,65 | | | | 8 / 1,1 | | 8 / 1,1 | | | |
| İR... 102 İR 72 | 14 / 2,5 | | 17 / 3 | | | | 14 / 2,5 | | 14 / 2,5 | | | |
| İR... 102 İR 73 | 14 / 2,3 | | 17 / 2,8 | | | | 14 / 2,3 | | 14 / 2,3 | | | |
| İR... 103 İR 72 | 13 / 2,5 | | 16 / 3 | | | | 13 / 2,5 | | 13 / 2,5 | | | |
| İR... 103 İR 73 | 13 / 2,3 | | 16 / 2,8 | | | | 13 / 2,3 | | 13 / 2,3 | | | |
| İR... 122 İR 72 | 30 / 2,5 | | 35 / 3 | | | | 30 / 2,5 | | 30 / 2,5 | | | |
| İR... 122 İR 73 | 30 / 2,3 | | 35 / 2,8 | | | | 30 / 2,3 | | 30 / 2,3 | | | |
| İR... 123 İR 72 | 28 / 2,5 | | 33 / 3 | | | | 28 / 2,5 | | 28 / 2,5 | | | |
| İR... 123 İR 73 | 28 / 2,3 | | 33 / 2,8 | | | | 28 / 2,3 | | 28 / 2,3 | | | |
| İR... 142 İR 72 | 38 / 2,5 | | 53 / 3 | | | | 45 / 2,5 | | 38 / 2,5 | | | |
| İR... 142 İR 73 | 38 / 2,3 | | 53 / 2,8 | | | | 45 / 2,3 | | 38 / 2,3 | | | |
| İR... 143 İR 72 | 30 / 2,5 | | 45 / 3 | | | | 39 / 2,5 | | 36 / 2,5 | | | |
| İR... 143 İR 73 | 30 / 2,3 | | 45 / 2,8 | | | | 39 / 2,3 | | 36 / 2,3 | | | |
| İR... 143 İR 82 | 30 / 5,5 | | 45 / 7,5 | | | | 39 / 5,5 | | 36 / 5,5 | | | |
| İR... 152 İR 93 | 65 / 8 | | 102 / 10 | | | | 94 / 8 | | 82 / 8 | | | |
| İR... 153 İR 92 | 60 / 9 | | 97 / 11 | | | | 90 / 9 | | 75 / 9 | | | |
| İR... 153 İR 93 | 60 / 8 | | 97 / 10 | | | | 90 / 8 | | 75 / 8 | | | |

Control and maintenance gearboxes

- Check the oil levels and quantity of your gearboxes. Choose the type and quantity of oil from the I-MAK catalogue.
- Check if the ventilation stopper is active or not. If the air evacuation hole does not work properly, the accumulated air in the gearbox trunk might causes pressure and gas leakage from the mats.
- Before starting your geared motors, proceed to the checking of connection bolts and screw. Check if they have loosened or not during transport or installation. Take measures by firming loosened bolts. A wrong connexion might create vibration to the axis and conduct to damage of the geared motor.

Change the oil after 500 hours of initial operation and periodically every 6000 hours of operating the geared motor.

If you are facing any technical issue, please consult the user guide delivered with the geared motor. In case of special issue or emergency please directly contact your reseller or the closest I-MAK technical center.

Control y mantenimiento de los reductores de velocidad

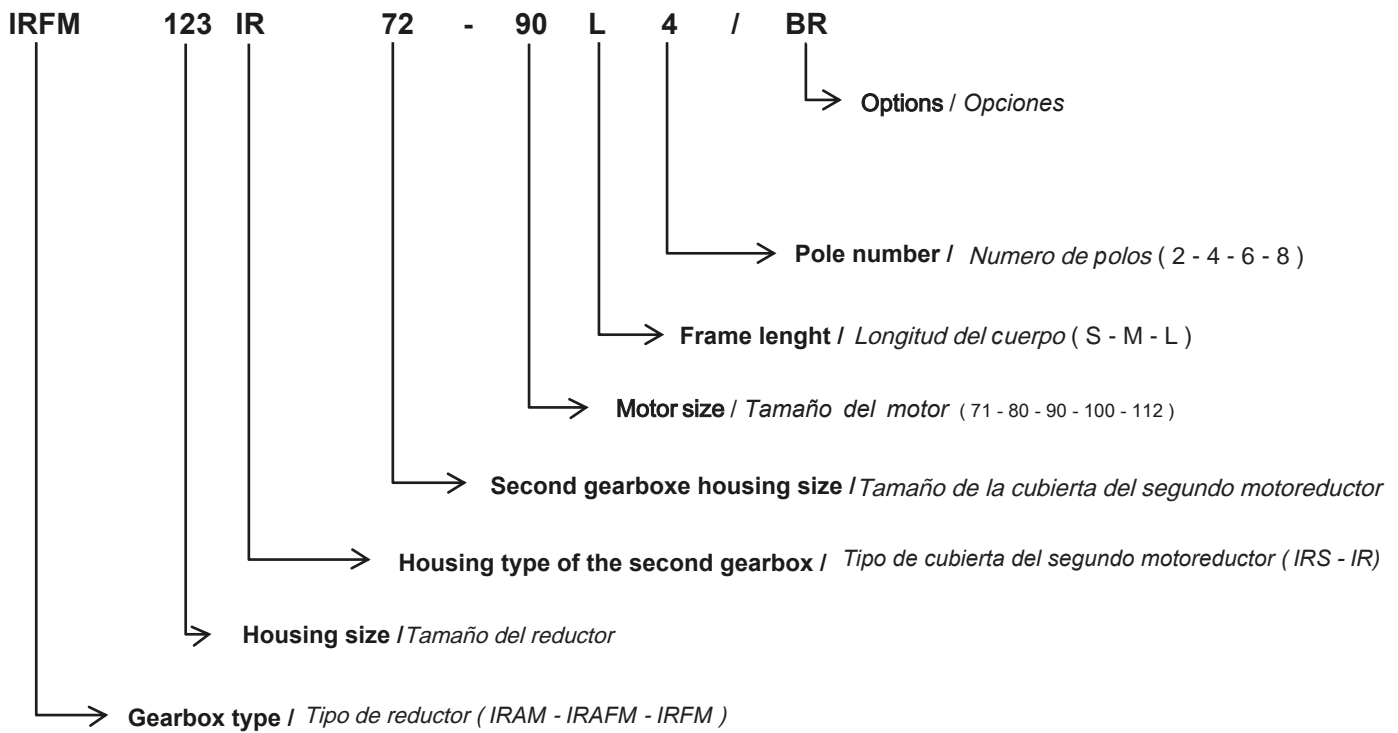
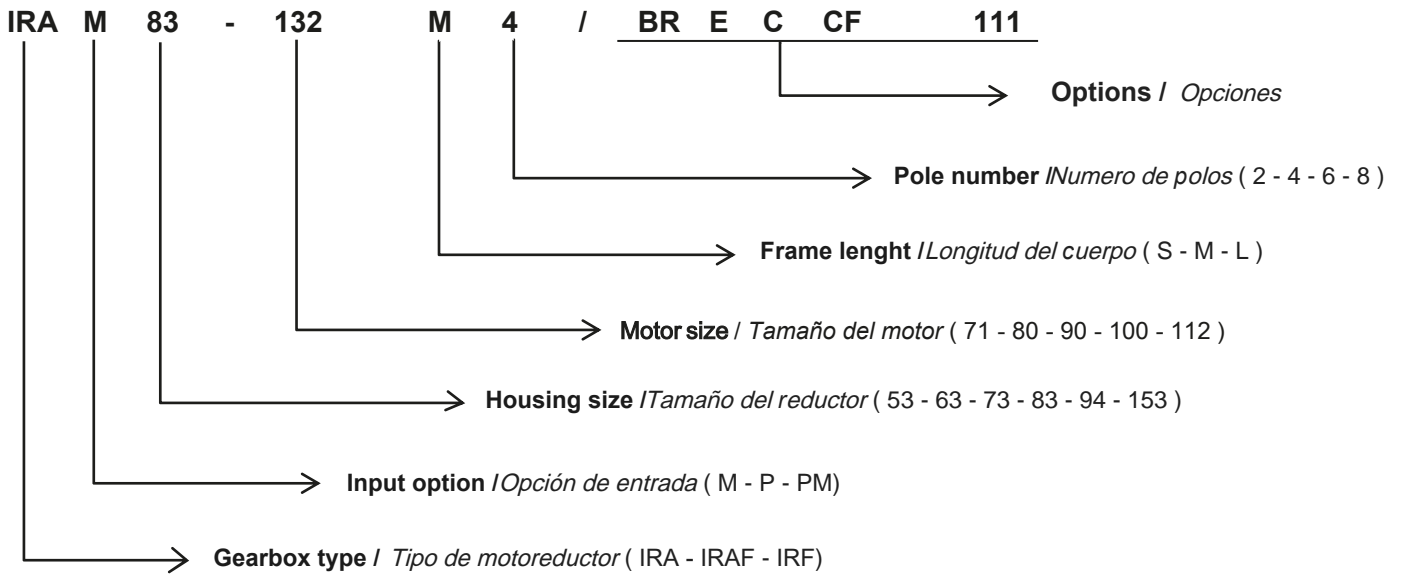
Verificar los niveles de aceite al igual que el numero de reductores. Escoja el tipo y la antidad de aceite del catálogo de I-MAK.

Verifique si el tapón de ventilación está activado o no. Si el hueco de evacuación de aire no funciona de manera adecuada, el aire acumulado en el maletero del reductor podría generar fugas de presión y de gas de las esteras.

Antes de empezar el motoreductor, proceda a chequear la conexión de los pernos y tornillos. Revise si se han aflojado o no durante la instalación. Tome medidas para reafirmar los pernos flojos. Una conexión errónea podría crear una vibración en el eje y a su paso dañar el motoreductor.

Cambie el aceite después de 500 horas del arranque inicial y después se hará periódicamente cada 6000 horas en la que el motoreductor funcione.

Si está teniendo algún problema técnico, por favor consulte la guía del usuario que fue entregada con su motoreductor. En caso de alguna emergencia o situación inusual contáctese directamente con el vendedor, con el centro técnico más cercano de I-MAK.

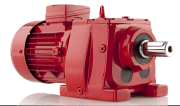


| Corrosion Categories <i>Categorías de corrosión</i> | Field of Applications <i>Campo de aplicaciones</i> | Type of Paint <i>Tipo de pintura</i> | Paint Thickness (µm) <i>Espesor de la pintura (µm)</i> | Total Paint Thickness (µm) <i>Espesor de pintura total (µm)</i> |
|--|--|--|---|--|
| C2 EN 12944 | Indoor installation and outdoor applications with protection roof. Environment with controlled humidity and low contamination. <i>Instalación interior y aplicaciones exteriores con techo de protección. Ambiente con humedad controlada y baja contaminación.</i> | Epoxy including zinc phosphate pigment <i>Epoxi que incluye pigmento de fosfato de zinc</i> | 60 | 120 |
| | | Aliphatic acrylic polyurethane <i>Poliuretano acrílico alifático</i> | 60 | |
| C3 EN 12944 | Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of humidity and contamination. <i>Aplicaciones interiores y exteriores con exposición regular a la intemperie. Ambiente con presencia de humedad y contaminación.</i> | Epoxy including zinc phosphate pigment <i>Epoxi que incluye pigmento de fosfato de zinc</i> | 110 | 160 |
| | | Aliphatic acrylic polyurethane <i>Poliuretano acrílico alifático</i> | 50 | |
| C4 EN 12944 | Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of high humidity and chemical contamination. <i>Aplicaciones interiores y exteriores con exposición regular a la intemperie. Medio ambiente con presencia de alta humedad y contaminación química.</i> | Epoxy including zinc phosphate pigment <i>Epoxi que incluye pigmento de fosfato de zinc</i> | 90 | 240 |
| | | High-volume epoxy <i>Epoxi de alto volumen</i> | 100 | |
| | | Aliphatic acrylic polyurethane <i>Poliuretano acrílico alifático</i> | 50 | |
| C5 EN 12944 | Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of continuous high humidity and chemical cleaning contamination. <i>Aplicaciones interiores y exteriores con exposición regular a la intemperie. Medio ambiente con presencia de alta humedad continua y contaminación por limpieza química.</i> | Epoxy including zinc phosphate pigment <i>Epoxi que incluye pigmento de fosfato de zinc</i> | 80 | 500 |
| | | High-volume MOI epoxy <i>Epoxi MOI de alto volumen</i> | 160 | |
| | | Aliphatic acrylic polyurethane <i>Poliuretano acrílico alifático</i> | 60 | |

| | | |
|---|---|--|
|  |  | <p>ISO 9000:2008 QUALITY MANAGEMENT SYSTEM <i>ISO 9000:2008 sistema de manejo de calidad</i></p> |
| |  | <p>ISO 10002:2004 CUSTOMER SATISFACTION MANAGEMENT SYSTEM <i>ISO 10002:2004 Sistema de gestión de la satisfacción del cliente</i></p> |
| |  | <p>OHSAS 18001:2007 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT <i>OHSAS 18001:2007 Gestión de seguridad y salud laboral</i></p> |
| |  | <p>CE DECLARATION OF CONFORMITY <i>CE Declaración de Conformidad</i></p> |
| |  | <p>EC TYPE EXAMINATION CERTIFICATE <i>ATEX Certificado</i></p> |

IR Series Power Ratings and Output Speed

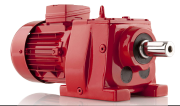
Tablas de rendimiento de los motorreductores



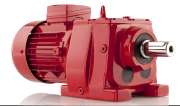
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,12 0,16 | 5008 | 0,28 | 0,84 | 3744 | 0,34 | 1,01 | 3083 | 26000 | iRAM iRFM iRAFM | 93 iR 63 / 63 M 4a | 295 296 297 | 155 165 175 |
| | 4673 | 0,30 | 0,90 | 3494 | 0,36 | 1,08 | 2877 | 26000 | | | | |
| | 4545 | 0,31 | 0,92 | 3398 | 0,37 | 1,10 | 2798 | 26000 | | | | |
| | 4241 | 0,33 | 0,99 | 3171 | 0,40 | 1,19 | 2611 | 26000 | | | | |
| | 4138 | 0,34 | 1,01 | 3094 | 0,41 | 1,21 | 2548 | 26000 | | | | |
| | 3861 | 0,36 | 1,09 | 2887 | 0,44 | 1,31 | 2377 | 26000 | | | | |
| | 3778 | 0,37 | 1,11 | 2824 | 0,45 | 1,33 | 2326 | 26000 | | | | |
| | 3525 | 0,40 | 1,19 | 2635 | 0,48 | 1,43 | 2170 | 26000 | | | | |
| | 3456 | 0,41 | 1,21 | 2584 | 0,49 | 1,45 | 2128 | 26000 | | | | |
| | 3168 | 0,44 | 1,32 | 2368 | 0,54 | 1,58 | 1950 | 26000 | | | | |
| | 2992 | 0,47 | 1,12 | 2271 | 0,57 | 1,34 | 1870 | 26000 | | | | |
| | 2792 | 0,50 | 1,20 | 2119 | 0,61 | 1,44 | 1745 | 26000 | | | | |
| | 2636 | 0,53 | 1,27 | 2001 | 0,64 | 1,52 | 1648 | 26000 | | | | |
| | 2460 | 0,57 | 1,36 | 1867 | 0,69 | 1,63 | 1538 | 26000 | | | | |
| | 2343 | 0,60 | 1,43 | 1778 | 0,73 | 1,72 | 1464 | 26000 | | | | |
| | 2186 | 0,64 | 1,53 | 1659 | 0,78 | 1,84 | 1366 | 26000 | | | | |
| | 2096 | 0,67 | 1,59 | 1591 | 0,81 | 1,91 | 1310 | 26000 | | | | |
| | 1956 | 0,72 | 1,71 | 1485 | 0,87 | 2,05 | 1223 | 26000 | | | | |
| | 1886 | 0,74 | 1,77 | 1431 | 0,90 | 2,12 | 1179 | 26000 | | | | |
| | 1760 | 0,80 | 1,90 | 1336 | 0,97 | 2,28 | 1100 | 26000 | | | | |
| | 1592 | 0,88 | 2,10 | 1208 | 1,1 | 2,52 | 995 | 26000 | | | | |
| | 1409 | 0,99 | 2,40 | 1069 | 1,2 | 2,88 | 881 | 26000 | | | | |
| | 1315 | 1,1 | 2,50 | 998 | 1,3 | 3,00 | 822 | 26000 | | | | |
| | 1201 | 1,2 | 2,80 | 912 | 1,4 | 3,36 | 751 | 26000 | | | | |
| | 1098 | 1,3 | 3,80 | 833 | 1,5 | 4,56 | 686 | 26000 | | | | |
| | 2930 | 0,48 | 0,90 | 2190 | 0,58 | 1,08 | 1804 | 18000 | | | | |
| | 2659 | 0,53 | 0,99 | 1988 | 0,64 | 1,19 | 1637 | 18000 | | | | |
| | 2205 | 0,63 | 1,12 | 1648 | 0,77 | 1,34 | 1358 | 18000 | | | | |
| | 2013 | 0,70 | 1,22 | 1505 | 0,84 | 1,46 | 1239 | 18000 | | | | |
| | 1840 | 0,76 | 1,34 | 1376 | 0,92 | 1,61 | 1133 | 18000 | | | | |
| | 1779 | 0,79 | 1,43 | 1350 | 0,96 | 1,72 | 1112 | 18000 | | | | |
| | 1580 | 0,89 | 1,61 | 1199 | 1,1 | 1,93 | 988 | 18000 | | | | |
| | 1418 | 0,99 | 1,69 | 1076 | 1,2 | 2,03 | 886 | 18000 | | | | |
| | 1278 | 1,1 | 1,88 | 970 | 1,3 | 2,26 | 799 | 18000 | | | | |
| | 1157 | 1,2 | 2,00 | 878 | 1,5 | 2,40 | 723 | 18000 | | | | |
| | 1050 | 1,3 | 2,20 | 797 | 1,6 | 2,64 | 656 | 18000 | | | | |
| | 984 | 1,4 | 2,00 | 747 | 1,7 | 2,40 | 615 | 18000 | | | | |
| | 887 | 1,6 | 2,40 | 673 | 1,9 | 2,88 | 554 | 18000 | | | | |
| | 803 | 1,7 | 2,60 | 609 | 2,1 | 3,12 | 502 | 18000 | | | | |
| | 663 | 2,1 | 3,00 | 503 | 2,6 | 3,60 | 414 | 18000 | | | | |
| | 604 | 2,3 | 3,20 | 458 | 2,8 | 3,84 | 378 | 18000 | | | | |
| | 1375 | 1,0 | 0,94 | 1044 | 1,2 | 1,13 | 859 | 12100 | | | | |
| 1223 | 1,1 | 1,05 | 928 | 1,4 | 1,26 | 764 | 12100 | | | | | |
| 1095 | 1,3 | 1,18 | 831 | 1,6 | 1,42 | 684 | 12100 | | | | | |
| 1079 | 1,3 | 1,19 | 819 | 1,6 | 1,43 | 674 | 12100 | | | | | |
| 966 | 1,4 | 1,33 | 733 | 1,8 | 1,60 | 604 | 12100 | | | | | |
| 894 | 1,6 | 1,44 | 679 | 1,9 | 1,73 | 559 | 12100 | | | | | |
| 801 | 1,7 | 1,44 | 608 | 2,1 | 1,73 | 501 | 12100 | | | | | |
| 789 | 1,8 | 1,44 | 599 | 2,2 | 1,73 | 493 | 12100 | | | | | |
| 702 | 2,0 | 1,84 | 533 | 2,4 | 2,21 | 439 | 12100 | | | | | |
| 697 | 2,0 | 1,85 | 529 | 2,4 | 2,22 | 436 | 12100 | | | | | |
| 627 | 2,2 | 2,00 | 476 | 2,7 | 2,40 | 392 | 12100 | | | | | |
| 563 | 2,5 | 2,30 | 427 | 3,0 | 2,76 | 352 | 12100 | | | | | |
| 553 | 2,5 | 2,30 | 420 | 3,1 | 2,76 | 346 | 12100 | | | | | |
| 535 | 2,6 | 2,30 | 406 | 3,2 | 2,76 | 334 | 12100 | | | | | |
| 469 | 3,0 | 2,60 | 356 | 3,6 | 3,12 | 293 | 12100 | | | | | |
| 419 | 3,3 | 2,90 | 318 | 4,1 | 3,48 | 262 | 12100 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 73 iR 52 / 63 M 4a | 259 260 261 | 58 61 64 |



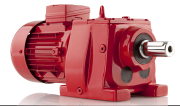
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | kg | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-----------------------|---------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | |
| 0,12 0,16 | 414 | 3,4 | 2,90 | 314 | 4,1 | 3,48 | 259 | 12100 | iRAM iRFM iRAFM | 73 iR 52 / 63 M 4a | 259 | 58 | | |
| | 376 | 3,7 | 3,20 | 285 | 4,5 | 3,84 | 235 | 12100 | | | 260 | 61 | | |
| | 370 | 3,8 | 3,30 | 281 | 4,6 | 3,96 | 231 | 12100 | | | 261 | 64 | | |
| | 576 | 2,4 | 1,95 | 444 | 2,9 | 2,34 | 366 | 12100 | iRAPM iRFPM iRAFP M | 74 / 63 M 4a | 256 | 48 | | |
| | 447 | 3,1 | 2,45 | 345 | 3,8 | 2,94 | 284 | 12100 | | | 257 | 51 | | |
| | 394 | 3,6 | 3,00 | 304 | 4,3 | 3,60 | 250 | 12100 | | | 258 | 54 | | |
| | 351 | 4,0 | 3,45 | 270 | 4,8 | 4,14 | 223 | 12100 | | | | | | |
| | 314 | 4,5 | 3,58 | 242 | 5,4 | 4,30 | 199 | 12100 | | | | | | |
| | 921 | 1,5 | 0,78 | 699 | 1,8 | 0,94 | 576 | 10100 | | | | | | |
| | 824 | 1,7 | 0,87 | 625 | 2,1 | 1,04 | 515 | 10100 | iRAM iRFM iRAFM | 721 iR 53 / 63 M 4a | 241 | 50 | | |
| | 742 | 1,9 | 0,97 | 563 | 2,3 | 1,16 | 464 | 10100 | | | 242 | 53 | | |
| | 675 | 2,1 | 1,07 | 512 | 2,5 | 1,28 | 422 | 10100 | | | 243 | 56 | | |
| | 604 | 2,3 | 1,56 | 458 | 2,8 | 1,87 | 378 | 10100 | | | | | | |
| | 533 | 2,6 | 1,77 | 405 | 3,2 | 2,12 | 333 | 10100 | | | | | | |
| | 491 | 2,9 | 1,88 | 373 | 3,5 | 2,26 | 307 | 10100 | | | | | | |
| | 480 | 2,9 | 1,95 | 364 | 3,5 | 2,34 | 300 | 10100 | | | | | | |
| | 423 | 3,3 | 2,20 | 321 | 4,0 | 2,64 | 264 | 10100 | | | | | | |
| | 390 | 3,6 | 2,30 | 296 | 4,4 | 2,76 | 244 | 10100 | | | | | | |
| | 344 | 4,1 | 2,60 | 261 | 4,9 | 3,12 | 215 | 10100 | | | | | | |
| | 306 | 4,6 | 3,00 | 232 | 5,6 | 3,60 | 191 | 10100 | | | | | | |
| | 836 | 1,7 | 0,86 | 635 | 2,0 | 1,03 | 523 | 10100 | | | iRAM iRFM iRAFM | 731 iR 52 / 63 M 4a | 241 | 55 |
| | 749 | 1,9 | 0,96 | 568 | 2,3 | 1,15 | 468 | 10100 | | | | | 242 | 58 |
| | 674 | 2,1 | 1,06 | 512 | 2,5 | 1,27 | 421 | 10100 | | | | | 243 | 61 |
| | 600 | 2,3 | 1,56 | 455 | 2,8 | 1,87 | 375 | 10100 | | | | | | |
| | 530 | 2,6 | 1,77 | 402 | 3,2 | 2,12 | 331 | 10100 | | | | | | |
| | 468 | 3,0 | 2,00 | 355 | 3,6 | 2,40 | 293 | 10100 | | | | | | |
| | 416 | 3,4 | 2,20 | 316 | 4,1 | 2,64 | 260 | 10100 | iRAPM iRFPM iRAFP M | 741 / 63 M 4a | 238 | 46 | | |
| | 372 | 3,8 | 2,50 | 282 | 4,6 | 3,00 | 233 | 10100 | | | 239 | 49 | | |
| | 333 | 4,2 | 2,80 | 253 | 5,1 | 3,36 | 208 | 10100 | | | 240 | 52 | | |
| | 300 | 4,7 | 2,90 | 228 | 5,7 | 3,48 | 188 | 10100 | | | | | | |
| | 622 | 2,3 | 1,25 | 479 | 2,7 | 1,50 | 395 | 18100 | | | | | | |
| | 538 | 2,6 | 1,44 | 414 | 3,2 | 1,73 | 341 | 18100 | | | | | | |
| | 465 | 3,0 | 1,66 | 358 | 3,7 | 1,99 | 295 | 18100 | iRAM iRFM iRAFM | 63 iR 52 / 63 M 4a | 223 | 41 | | |
| | 435 | 3,2 | 1,77 | 335 | 3,9 | 2,12 | 276 | 18100 | | | 224 | 46 | | |
| | 384 | 3,6 | 2,00 | 296 | 4,4 | 2,40 | 244 | 18100 | | | 225 | 47 | | |
| | 338 | 4,1 | 2,30 | 261 | 5,0 | 2,76 | 215 | 18100 | | | | | | |
| | 301 | 4,7 | 2,60 | 232 | 5,6 | 3,12 | 191 | 18100 | | | | | | |
| | 777 | 1,8 | 0,84 | 590 | 2,2 | 1,01 | 486 | 7300 | | | | | | |
| | 704 | 2,0 | 0,93 | 534 | 2,4 | 1,12 | 440 | 7300 | | | | | | |
| | 622 | 2,3 | 1,04 | 472 | 2,7 | 1,25 | 389 | 7300 | | | | | | |
| | 566 | 2,5 | 1,15 | 430 | 3,0 | 1,38 | 354 | 7300 | | | | | | |
| | 475 | 2,9 | 1,37 | 361 | 3,6 | 1,64 | 297 | 7300 | | | | | | |
| 449 | 3,1 | 1,45 | 341 | 3,8 | 1,74 | 281 | 7300 | | | | | | | |
| 397 | 3,5 | 1,64 | 301 | 4,3 | 1,97 | 248 | 7300 | | | | | | | |
| 379 | 3,7 | 1,72 | 288 | 4,5 | 2,06 | 237 | 7300 | | | | | | | |
| 323 | 4,3 | 2,00 | 245 | 5,3 | 2,40 | 202 | 7300 | | | | | | | |
| 286 | 4,9 | 2,20 | 217 | 5,9 | 2,64 | 179 | 7300 | | | | | | | |
| 273 | 5,1 | 2,40 | 207 | 6,2 | 2,88 | 171 | 7300 | | | | | | | |
| 242 | 5,8 | 2,60 | 184 | 7,0 | 3,12 | 151 | 7300 | | | | | | | |
| 215 | 6,5 | 3,00 | 163 | 7,9 | 3,60 | 134 | 7300 | iRAM iRFM iRAFM | 62 iR 52 / 63 M 4a | 223 | 42 | | | |
| 231 | 6,1 | 2,30 | 178 | 7,4 | 2,76 | 147 | 7300 | | | 224 | 47 | | | |
| 203 | 6,9 | 2,60 | 156 | 8,4 | 3,12 | 129 | 7300 | | | 225 | 48 | | | |
| 184 | 7,6 | 2,70 | 142 | 9,2 | 3,24 | 117 | 7300 | | | | | | | |
| 162 | 8,6 | 3,00 | 125 | 10 | 3,60 | 103 | 7300 | | | | | | | |
| 148 | 9,5 | 3,30 | 114 | 11 | 3,96 | 94 | 7300 | | | | | | | |
| 134 | 10 | 3,60 | 103 | 13 | 4,32 | 85 | 7300 | | | | | | | |



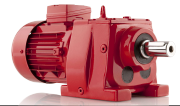
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|--------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,12 0,16 | 424 | 3,3 | 1,35 | 327 | 4,0 | 1,62 | 269 | 7300 | iRAPM iRFPM iRAFP M | 64 / 63 M 4a | 220 221 222 | 28 33 34 |
| | 396 | 3,5 | 1,44 | 305 | 4,3 | 1,73 | 251 | 7300 | | | | |
| | 319 | 4,4 | 1,77 | 246 | 5,3 | 2,12 | 203 | 7300 | | | | |
| | 291 | 4,8 | 1,95 | 224 | 5,8 | 2,34 | 185 | 7300 | | | | |
| | 276 | 5,1 | 2,00 | 213 | 6,1 | 2,40 | 175 | 7300 | iRAM iRFM iRAFM | 53 iR 42 / 63 M 4a | 187 188 189 | 22 24 25 |
| | 377 | 3,7 | 0,75 | 286 | 4,5 | 0,90 | 236 | 4250 | | | | |
| | 333 | 4,2 | 0,84 | 253 | 5,1 | 1,01 | 208 | 4250 | | | | |
| | 303 | 4,6 | 0,93 | 230 | 5,6 | 1,12 | 189 | 4250 | | | | |
| | 268 | 5,2 | 1,05 | 203 | 6,3 | 1,26 | 168 | 4250 | | | | |
| | 237 | 5,9 | 1,19 | 180 | 7,2 | 1,43 | 148 | 4250 | | | | |
| | 216 | 6,5 | 1,30 | 164 | 7,9 | 1,56 | 135 | 4250 | | | | |
| | 192 | 7,3 | 1,47 | 146 | 8,9 | 1,76 | 120 | 4250 | | | | |
| | 188 | 7,4 | 1,49 | 143 | 9,0 | 1,79 | 118 | 4250 | | | | |
| | 168 | 8,3 | 1,67 | 128 | 10 | 2,00 | 105 | 4250 | | | | |
| | 152 | 9,2 | 1,85 | 115 | 11 | 2,22 | 95 | 4250 | | | | |
| | 136 | 10 | 1,99 | 103 | 13 | 2,39 | 85 | 4250 | | | | |
| | 123 | 11 | 2,30 | 93 | 14 | 2,76 | 77 | 4250 | | | | |
| | 111 | 13 | 2,50 | 84 | 15 | 3,00 | 69 | 4250 | | | | |
| | 100 | 14 | 2,80 | 76 | 17 | 3,36 | 63 | 4250 | | | | |
| | 106 | 13 | 2,30 | 83 | 16 | 2,76 | 68 | 5350 | | | | |
| | 88,98 | 16 | 2,80 | 70 | 19 | 3,36 | 57 | 5150 | | | | |
| | 77,17 | 18 | 3,10 | 60 | 22 | 3,72 | 50 | 5150 | | | | |
| | 67,60 | 21 | 3,30 | 53 | 25 | 3,96 | 44 | 5150 | | | | |
| | 81,37 | 17 | 1,27 | 64 | 21 | 1,52 | 52 | 2270 | iRAM iRFM iRAFM | 43 / 63 M 4a | 175 176 177 | 11 12 13 |
| | 70,05 | 20 | 1,48 | 55 | 24 | 1,78 | 45 | 2270 | | | | |
| | 60,90 | 23 | 1,70 | 48 | 28 | 2,04 | 39 | 2270 | | | | |
| | 53,33 | 26 | 1,94 | 42 | 32 | 2,33 | 34 | 2270 | | | | |
| | 46,98 | 30 | 2,20 | 37 | 36 | 2,64 | 30 | 2270 | | | | |
| | 41,85 | 33 | 2,50 | 33 | 41 | 3,00 | 27 | 2270 | | | | |
| | 36,38 | 38 | 2,90 | 28 | 47 | 3,48 | 23 | 2120 | | | | |
| | 31,86 | 44 | 3,20 | 25 | 53 | 3,84 | 21 | 2120 | | | | |
| | 28,06 | 50 | 3,70 | 22 | 61 | 4,44 | 18 | 2000 | | | | |
| | 26,19 | 53 | 4,00 | 20 | 65 | 4,80 | 17 | 2000 | | | | |
| | 24,83 | 56 | 4,20 | 19 | 68 | 5,04 | 16 | 2000 | | | | |
| | 22,62 | 62 | 4,40 | 18 | 75 | 5,28 | 15 | 1940 | | | | |
| | 21,11 | 66 | 4,80 | 17 | 81 | 5,76 | 14 | 1940 | | | | |
| | 20,01 | 70 | 5,20 | 16 | 85 | 6,24 | 13 | 1940 | | | | |
| | 18,59 | 75 | 5,50 | 15 | 91 | 6,60 | 12 | 1940 | | | | |
| | 17,76 | 79 | 5,80 | 14 | 96 | 6,96 | 11 | 1900 | | | | |
| | 16,45 | 85 | 6,20 | 13 | 103 | 7,44 | 11 | 1900 | | | | |
| | 15,81 | 89 | 6,40 | 12 | 108 | 7,68 | 10 | 1850 | | | | |
| | 14,60 | 96 | 7,10 | 11 | 116 | 8,52 | 9 | 1850 | | | | |
| | 14,09 | 99 | 7,50 | 11 | 121 | 9,00 | 9 | 1850 | | | | |
| | 13,00 | 108 | 7,90 | 10 | 131 | 9,48 | 8 | 1750 | | | | |
| | 11,58 | 121 | 8,90 | 9 | 147 | 10,68 | 7 | 1700 | | | | |
| | 11,24 | 125 | 5,40 | 9 | 151 | 6,48 | 7 | 1650 | | | | |
| 9,845 | 142 | 6,00 | 8 | 173 | 7,20 | 6 | 1600 | | | | | |
| 8,672 | 161 | 6,80 | 7 | 196 | 8,16 | 6 | 1500 | | | | | |
| 7,673 | 182 | 7,90 | 6 | 222 | 9,48 | 5 | 1450 | | | | | |
| 6,872 | 204 | 11,40 | 5 | 247 | 13,68 | 4 | 1450 | | | | | |
| 6,080 | 230 | 12,80 | 5 | 280 | 15,36 | 4 | 1450 | iRAM iRFM iRAFM | 42 / 63 M 4a | 175 176 177 | 10 11 12 | |
| 5,538 | 253 | 13,70 | 4 | 307 | 16,44 | 4 | 1360 | | | | | |
| 5,398 | 259 | 14,20 | 4 | 315 | 17,04 | 4 | 1300 | | | | | |
| 4,900 | 286 | 15,10 | 4 | 347 | 18,12 | 3 | 1250 | | | | | |
| 4,803 | 291 | 16,00 | 4 | 354 | 19,20 | 3 | 1200 | | | | | |
| 4,350 | 322 | 16,90 | 3 | 391 | 20,28 | 3 | 1100 | | | | | |
| 4,280 | 327 | 17,80 | 3 | 397 | 21,36 | 3 | 1100 | | | | | |
| 3,870 | 362 | 19,20 | 3 | 439 | 23,04 | 3 | 1100 | | | | | |
| 3,449 | 406 | 21,50 | 3 | 493 | 25,80 | 2 | 1080 | | | | | |



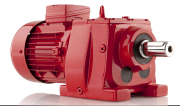
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,18 0,25 | 2636 | 0,53 | 0,85 | 3001 | 0,64 | 1,02 | 2471 | 26000 | iRAM iRFM iRAFM | 92 iR 63 / 63 M 4b | 295 296 297 | 150 160 170 |
| | 2460 | 0,57 | 0,91 | 2801 | 0,69 | 1,09 | 2306 | 26000 | | | | |
| | 2343 | 0,60 | 0,95 | 2667 | 0,73 | 1,14 | 2197 | 26000 | | | | |
| | 2186 | 0,64 | 1,02 | 2489 | 0,78 | 1,22 | 2050 | 26000 | | | | |
| | 2096 | 0,67 | 1,06 | 2386 | 0,81 | 1,27 | 1965 | 26000 | | | | |
| | 1956 | 0,72 | 1,14 | 2227 | 0,87 | 1,37 | 1834 | 26000 | | | | |
| | 1886 | 0,74 | 1,18 | 2147 | 0,90 | 1,42 | 1768 | 26000 | | | | |
| | 1760 | 0,80 | 1,27 | 2004 | 0,97 | 1,52 | 1650 | 26000 | | | | |
| | 1592 | 0,88 | 1,40 | 1812 | 1,1 | 1,68 | 1493 | 26000 | | | | |
| | 1409 | 0,99 | 1,60 | 1604 | 1,2 | 1,92 | 1321 | 26000 | | | | |
| | 1315 | 1,1 | 1,67 | 1497 | 1,3 | 2,00 | 1233 | 26000 | | | | |
| | 1201 | 1,2 | 1,87 | 1367 | 1,4 | 2,24 | 1126 | 26000 | | | | |
| | 1098 | 1,3 | 2,53 | 1250 | 1,5 | 3,04 | 1029 | 26000 | | | | |
| | 993 | 1,4 | 2,73 | 1131 | 1,7 | 3,28 | 931 | 26000 | | | | |
| | 1779 | 0,79 | 0,95 | 2025 | 0,96 | 1,14 | 1668 | 18100 | | | | |
| | 1580 | 0,89 | 1,07 | 1799 | 1,1 | 1,29 | 1481 | 18100 | | | | |
| | 1418 | 0,99 | 1,13 | 1614 | 1,2 | 1,35 | 1329 | 18100 | | | | |
| | 1278 | 1,1 | 1,25 | 1455 | 1,3 | 1,50 | 1198 | 18000 | | | | |
| | 1157 | 1,2 | 1,33 | 1317 | 1,5 | 1,60 | 1085 | 18000 | | | | |
| | 1050 | 1,3 | 1,47 | 1195 | 1,6 | 1,76 | 984 | 18000 | | | | |
| | 984 | 1,4 | 1,33 | 1120 | 1,7 | 1,60 | 923 | 18000 | | | | |
| | 887 | 1,6 | 1,60 | 1010 | 1,9 | 1,92 | 832 | 18000 | | | | |
| | 803 | 1,7 | 1,73 | 914 | 2,1 | 2,08 | 753 | 18000 | | | | |
| | 663 | 2,1 | 2,00 | 755 | 2,6 | 2,40 | 622 | 18000 | | | | |
| | 604 | 2,3 | 2,13 | 688 | 2,8 | 2,56 | 566 | 18000 | | | | |
| | 700 | 1,3 | 1,25 | 1258 | 1,6 | 1,50 | 1030 | 18100 | | | | |
| | 635 | 1,4 | 1,37 | 1141 | 1,7 | 1,64 | 934 | 18100 | | | | |
| | 579 | 1,6 | 1,50 | 1041 | 1,9 | 1,80 | 851 | 18100 | | | | |
| | 530 | 1,7 | 1,64 | 953 | 2,1 | 1,97 | 780 | 18100 | | | | |
| | 487 | 1,8 | 1,79 | 876 | 2,3 | 2,15 | 716 | 18100 | | | | |
| | 428 | 2,1 | 2,00 | 770 | 2,6 | 2,40 | 630 | 18100 | | | | |
| | 382 | 2,4 | 2,30 | 687 | 2,9 | 2,76 | 562 | 18100 | | | | |
| | 343 | 2,6 | 2,50 | 617 | 3,2 | 3,00 | 504 | 18100 | | | | |
| | 310 | 2,9 | 2,70 | 557 | 3,6 | 3,24 | 456 | 18100 | | | | |
| | 1095 | 1,3 | 0,79 | 1247 | 1,6 | 0,94 | 1027 | 12100 | | | | |
| | 1079 | 1,3 | 0,79 | 1228 | 1,6 | 0,95 | 1012 | 12100 | | | | |
| | 966 | 1,4 | 0,89 | 1100 | 1,8 | 1,06 | 906 | 12100 | | | | |
| | 894 | 1,6 | 0,96 | 1018 | 1,9 | 1,15 | 838 | 12100 | | | | |
| | 801 | 1,7 | 0,96 | 912 | 2,1 | 1,15 | 751 | 12100 | | | | |
| | 789 | 1,8 | 0,96 | 898 | 2,2 | 1,15 | 740 | 12100 | | | | |
| | 702 | 2,0 | 1,23 | 799 | 2,4 | 1,47 | 658 | 12100 | | | | |
| | 697 | 2,0 | 1,23 | 794 | 2,4 | 1,48 | 653 | 12100 | | | | |
| | 627 | 2,2 | 1,33 | 714 | 2,7 | 1,60 | 588 | 12100 | | | | |
| | 563 | 2,5 | 1,53 | 641 | 3,0 | 1,84 | 528 | 12100 | | | | |
| | 553 | 2,5 | 1,53 | 630 | 3,1 | 1,84 | 518 | 12100 | | | | |
| 535 | 2,6 | 1,53 | 609 | 3,2 | 1,84 | 502 | 12100 | | | | | |
| 469 | 3,0 | 1,73 | 534 | 3,6 | 2,08 | 440 | 12100 | | | | | |
| 419 | 3,3 | 1,93 | 477 | 4,1 | 2,32 | 393 | 12100 | | | | | |
| 414 | 3,4 | 1,93 | 471 | 4,1 | 2,32 | 388 | 12100 | | | | | |
| 376 | 3,7 | 2,13 | 428 | 4,5 | 2,56 | 353 | 12100 | | | | | |
| 370 | 3,8 | 2,20 | 421 | 4,6 | 2,64 | 347 | 12100 | | | | | |
| 332 | 4,2 | 2,40 | 378 | 5,1 | 2,88 | 311 | 12100 | | | | | |
| 276 | 5,1 | 2,60 | 314 | 6,2 | 3,12 | 259 | 12100 | | | | | |
| 270 | 5,2 | 2,67 | 307 | 6,3 | 3,20 | 253 | 12100 | | | | | |
| 250 | 5,6 | 2,87 | 285 | 6,8 | 3,44 | 234 | 12100 | | | | | |
| 244 | 5,7 | 2,93 | 278 | 7,0 | 3,52 | 229 | 12100 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 73 iR 52 / 63 M 4b | 259 260 261 | 58 61 64 |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,18 0,25 | 576 | 1,6 | 0,83 | 1036 | 1,9 | 1,00 | 848 | 12100 | iRAM iRFM iRAFM | 74 / 71 M 6a | 253 | 50 |
| | 447 | 2,0 | 1,04 | 804 | 2,5 | 1,25 | 658 | 12100 | | | 254 | 53 |
| | 394 | 2,3 | 1,32 | 709 | 2,8 | 1,58 | 580 | 12100 | | | 255 | 56 |
| | 351 | 2,6 | 1,48 | 630 | 3,1 | 1,78 | 516 | 12100 | iRAM iRFM iRAFM | 74 / 63 M 4b | 253 | 49 |
| | 576 | 2,4 | 1,30 | 666 | 2,9 | 1,56 | 549 | 12100 | | | 254 | 52 |
| | 447 | 3,1 | 1,63 | 517 | 3,8 | 1,96 | 426 | 12100 | | | 255 | 55 |
| | 394 | 3,6 | 2,00 | 456 | 4,3 | 2,40 | 375 | 12100 | | | | |
| | 351 | 4,0 | 2,30 | 405 | 4,8 | 2,76 | 334 | 12100 | | | | |
| | 314 | 4,5 | 2,39 | 363 | 5,4 | 2,86 | 299 | 12100 | | | | |
| | 283 | 5,0 | 2,50 | 327 | 6,0 | 3,00 | 269 | 12100 | | | | |
| | 154 | 5,8 | 3,10 | 282 | 7,1 | 3,72 | 231 | 12100 | iRAM iRFM iRAFM | 73 / 71 M 6a | 247 | 43 |
| | 604 | 2,3 | 1,04 | 688 | 2,8 | 1,25 | 566 | 10100 | iRAM iRFM iRAFM | 721 iR 53 / 63 M 4b | 241 | 51 |
| | 533 | 2,6 | 1,18 | 607 | 3,2 | 1,42 | 500 | 10100 | | | 242 | 54 |
| | 491 | 2,9 | 1,25 | 559 | 3,5 | 1,50 | 460 | 10100 | | | 243 | 57 |
| | 480 | 2,9 | 1,30 | 546 | 3,5 | 1,56 | 450 | 10100 | | | | |
| | 423 | 3,3 | 1,47 | 482 | 4,0 | 1,76 | 397 | 10100 | | | | |
| | 390 | 3,6 | 1,53 | 444 | 4,4 | 1,84 | 366 | 10100 | | | | |
| | 344 | 4,1 | 1,73 | 392 | 4,9 | 2,08 | 323 | 10100 | | | | |
| | 306 | 4,6 | 2,00 | 348 | 5,6 | 2,40 | 287 | 10100 | | | | |
| | 600 | 2,3 | 1,04 | 683 | 2,8 | 1,25 | 563 | 10100 | iRAM iRFM iRAFM | 731 iR 52 / 63 M 4b | 241 | 56 |
| | 530 | 2,6 | 1,18 | 603 | 3,2 | 1,42 | 497 | 10100 | | | 242 | 59 |
| | 468 | 3,0 | 1,33 | 533 | 3,6 | 1,60 | 439 | 10100 | | | 243 | 62 |
| | 416 | 3,4 | 1,47 | 474 | 4,1 | 1,76 | 390 | 10100 | | | | |
| | 372 | 3,8 | 1,67 | 424 | 4,6 | 2,00 | 349 | 10100 | | | | |
| | 333 | 4,2 | 1,87 | 379 | 5,1 | 2,24 | 312 | 10100 | | | | |
| | 300 | 4,7 | 1,93 | 342 | 5,7 | 2,32 | 281 | 10100 | iRAM iRFM iRAFM | 741 / 71 M 6a | 235 | 47 |
| | 435 | 2,1 | 0,76 | 783 | 2,5 | 0,91 | 640 | 12100 | | | 236 | 50 |
| | 384 | 2,3 | 0,87 | 690 | 2,9 | 1,04 | 565 | 12100 | | | 237 | 53 |
| | 338 | 2,7 | 0,98 | 609 | 3,2 | 1,18 | 498 | 12100 | iRAPM iRFPM iRAFP M | 741 / 63 M 4b | | |
| | 622 | 2,3 | 0,83 | 719 | 2,7 | 1,00 | 592 | 12100 | | | 238 | 46 |
| | 538 | 2,6 | 0,96 | 622 | 3,2 | 1,15 | 512 | 12100 | | | 239 | 49 |
| | 465 | 3,0 | 1,11 | 537 | 3,7 | 1,33 | 443 | 12100 | | | 240 | 52 |
| | 435 | 3,2 | 1,18 | 503 | 3,9 | 1,42 | 414 | 12100 | | | | |
| | 384 | 3,6 | 1,33 | 444 | 4,4 | 1,60 | 365 | 12100 | | | | |
| | 338 | 4,1 | 1,53 | 391 | 5,0 | 1,84 | 322 | 12100 | | | | |
| | 301 | 4,7 | 1,73 | 348 | 5,6 | 2,08 | 287 | 12100 | | | | |
| | 240 | 5,8 | 2,20 | 277 | 7,1 | 2,64 | 228 | 12100 | iRAM iRFM iRAFM | 731 / 71 M 6a | 229 | 41 |
| | 188 | 7,4 | 2,67 | 218 | 9,0 | 3,20 | 179 | 12100 | | | 230 | 44 |
| | 152 | 5,9 | 1,88 | 278 | 7,2 | 2,26 | 227 | 10100 | | | 231 | 47 |
| | 135 | 6,7 | 2,10 | 246 | 8,2 | 2,52 | 202 | 10100 | | | | |
| | 117 | 7,7 | 2,50 | 213 | 9,4 | 3,00 | 174 | 10100 | | | | |
| | 101 | 8,9 | 2,80 | 184 | 11 | 3,36 | 151 | 10100 | | | | |
| 475 | 2,9 | 0,91 | 541 | 3,6 | 1,10 | 445 | 7300 | iRAM iRFM iRAFM | 63 iR 52 / 63 M 4b | 223 | 41 | |
| 449 | 3,1 | 0,97 | 511 | 3,8 | 1,16 | 421 | 7300 | | | 224 | 46 | |
| 397 | 3,5 | 1,09 | 452 | 4,3 | 1,31 | 372 | 7300 | | | 225 | 47 | |
| 379 | 3,7 | 1,15 | 431 | 4,5 | 1,38 | 355 | 7300 | | | | | |
| 323 | 4,3 | 1,33 | 368 | 5,3 | 1,60 | 303 | 7300 | | | | | |
| 286 | 4,9 | 1,47 | 326 | 5,9 | 1,76 | 268 | 7300 | | | | | |
| 273 | 5,1 | 1,60 | 311 | 6,2 | 1,92 | 256 | 7300 | | | | | |
| 242 | 5,8 | 1,73 | 276 | 7,0 | 2,08 | 227 | 7300 | | | | | |
| 215 | 6,5 | 2,00 | 245 | 7,9 | 2,40 | 202 | 7300 | | | | | |
| 191 | 7,3 | 2,27 | 217 | 8,9 | 2,72 | 179 | 7300 | | | | | |
| 231 | 6,1 | 1,53 | 267 | 7,4 | 1,84 | 220 | 7300 | iRAM iRFM iRAFM | 62 iR 52 / 63 M 4b | 223 | 42 | |
| 203 | 6,9 | 1,73 | 235 | 8,4 | 2,08 | 193 | 7300 | | | 224 | 47 | |
| 184 | 7,6 | 1,80 | 213 | 9,2 | 2,16 | 175 | 7300 | | | 225 | 48 | |





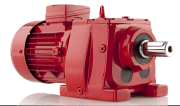
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|--------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,18 0,25 | 162 | 8,6 | 2,00 | 187 | 10 | 2,40 | 154 | 7300 | iRAM iRFM iRAFM | 62 iR 52 / 63 M 4b | 223 | 42 |
| | 148 | 9,5 | 2,20 | 171 | 11 | 2,64 | 141 | 7300 | | | 224 | 47 |
| | 134 | 10 | 2,40 | 155 | 13 | 2,88 | 128 | 7300 | | | 225 | 48 |
| | 319 | 2,8 | 0,76 | 574 | 3,4 | 0,91 | 470 | 7300 | iRAM iRFM iRAFM | 64 / 71 M 6a | 217 | 30 |
| | 291 | 3,1 | 0,84 | 524 | 3,8 | 1,01 | 428 | 7300 | | | 218 | 35 |
| | 424 | 3,3 | 0,90 | 490 | 4,0 | 1,08 | 404 | 7300 | | | 219 | 36 |
| | 396 | 3,5 | 0,96 | 458 | 4,3 | 1,15 | 377 | 7300 | iRAPM iRFPM iRAFP M | 64 / 63 M 4b | 220 | 29 |
| | 319 | 4,4 | 1,18 | 369 | 5,3 | 1,42 | 304 | 7300 | | | | |
| | 291 | 4,8 | 1,30 | 337 | 5,8 | 1,56 | 277 | 7300 | | | | |
| | 276 | 5,1 | 1,33 | 320 | 6,1 | 1,60 | 263 | 7300 | | | | |
| | 235 | 5,9 | 1,60 | 272 | 7,2 | 1,92 | 224 | 7300 | | | | |
| | 214 | 6,5 | 1,73 | 247 | 7,9 | 2,08 | 204 | 7300 | | | | |
| | 182 | 7,7 | 2,07 | 210 | 9,3 | 2,48 | 173 | 7300 | | | | |
| | 157 | 8,9 | 2,40 | 181 | 11 | 2,88 | 149 | 7300 | | | | |
| | 128 | 7,0 | 1,80 | 234 | 8,6 | 2,16 | 191 | 7300 | | | | |
| | 119 | 7,5 | 1,90 | 218 | 9,2 | 2,28 | 178 | 7300 | | | | |
| | 96,27 | 9,3 | 2,30 | 176 | 11 | 2,76 | 144 | 7300 | iRAM iRFM iRAFM | 63 / 71 M 6a | 211 | 26 |
| | 87,81 | 10 | 2,60 | 160 | 13 | 3,12 | 131 | 7300 | | | 212 | 31 |
| | | | | | | | | | | | 213 | 32 |
| | 128 | 11 | 2,70 | 150 | 13 | 3,24 | 124 | 7300 | iRAPM iRFPM iRAFP | 63 / 63 M 4b | 214 | 25 |
| | 119 | 12 | 2,90 | 140 | 14 | 3,48 | 115 | 7300 | | | 215 | 30 |
| | | | | | | | | | | | 216 | 31 |
| | 128 | 7,0 | 1,80 | 234 | 13 | 2,16 | 124 | 7300 | iRAPM iRFPM iRAFP | 631 / 71 M 6a | 196 | 30 |
| | 119 | 7,5 | 1,90 | 218 | 14 | 2,28 | 115 | 7300 | | | 197 | 35 |
| | | | | | | | | | | | 198 | 36 |
| | 96,27 | 9,3 | 2,30 | 176 | 18 | 2,76 | 93 | 7300 | iRAM iRFM iRAFM | 631 / 71 M 6a | 193 | 30 |
| | 87,81 | 10 | 2,60 | 160 | 19 | 3,12 | 85 | 7300 | | | 194 | 35 |
| | | | | | | | | | | | 195 | 36 |
| | 128 | 11 | 2,70 | 150 | 13 | 3,24 | 124 | 7300 | iRAPM iRFPM iRAFP | 631 / 63 M 4b | 196 | 29 |
| | 119 | 12 | 2,90 | 140 | 14 | 3,48 | 115 | 7300 | | | 197 | 34 |
| | | | | | | | | | | | 198 | 35 |
| | 237 | 5,9 | 0,79 | 270 | 7,2 | 0,95 | 222 | 4250 | iRAM iRFM iRAFM | 53 iR 42 / 63 M 4b | 187 | 23 |
| | 216 | 6,5 | 0,87 | 246 | 7,9 | 1,04 | 203 | 4250 | | | | |
| | 192 | 7,3 | 0,98 | 219 | 8,9 | 1,18 | 180 | 4250 | | | | |
| | 188 | 7,4 | 0,99 | 214 | 9,0 | 1,19 | 176 | 4250 | | | | |
| | 168 | 8,3 | 1,11 | 191 | 10 | 1,34 | 158 | 4250 | | | | |
| | 152 | 9,2 | 1,23 | 173 | 11 | 1,48 | 143 | 4250 | | | | |
| | 136 | 10 | 1,33 | 155 | 13 | 1,59 | 128 | 4250 | | | | |
| | 123 | 11 | 1,53 | 140 | 14 | 1,84 | 115 | 4250 | | | | |
| | 111 | 13 | 1,67 | 126 | 15 | 2,00 | 104 | 4250 | | | | |
| 100 | 14 | 1,87 | 114 | 17 | 2,24 | 94 | 4250 | | | | | |
| 106 | 8,5 | 0,99 | 193 | 10 | 1,18 | 158 | 5000 | iRAM iRFM iRAFM | 53 / 71 M 6a | 181 | 16 | |
| 88,98 | 10 | 1,18 | 162 | 12 | 1,42 | 133 | 5000 | | | 182 | 18 | |
| 77,17 | 12 | 1,33 | 141 | 14 | 1,59 | 115 | 5000 | | | 183 | 19 | |
| 106 | 13 | 1,53 | 124 | 16 | 1,84 | 102 | 5000 | iRAPM iRFPM iRAFP M | 53 / 63 M 4b | 184 | 15 | |
| 88,98 | 16 | 1,87 | 104 | 19 | 2,24 | 86 | 4900 | | | | | |
| 77,17 | 18 | 2,07 | 91 | 22 | 2,48 | 75 | 4900 | | | | | |
| 67,60 | 21 | 2,20 | 79 | 25 | 2,64 | 65 | 4750 | | | | | |
| 54,82 | 26 | 2,80 | 64 | 31 | 3,36 | 53 | 4750 | | | | | |
| 48,41 | 29 | 3,40 | 57 | 35 | 4,08 | 47 | 4750 | | | | | |
| 53,33 | 17 | 0,83 | 97 | 21 | 1,00 | 80 | 2270 | iRAM iRFM | 43 / 71 M 6a | 175 | 13 | |
| 46,98 | 19 | 0,95 | 86 | 23 | 1,14 | 70 | 2270 | | | iRAFM | 176 | 14 |
| | | | | | | | | | | | 177 | 14 |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,18 0,25 | 81,37 | 17 | 0,85 | 95 | 21 | 1,02 | 79 | 2250 | iRAM iRFM iRAFM | 43 / 63 M 4b | 175 176 177 | 12 13 13 |
| | 70,05 | 20 | 0,99 | 82 | 24 | 1,18 | 68 | 2250 | | | | |
| | 60,90 | 23 | 1,13 | 71 | 28 | 1,36 | 59 | 2220 | | | | |
| | 53,33 | 26 | 1,29 | 63 | 32 | 1,55 | 52 | 2220 | | | | |
| | 46,98 | 30 | 1,47 | 55 | 36 | 1,76 | 45 | 2220 | | | | |
| | 41,85 | 33 | 1,67 | 49 | 41 | 2,00 | 40 | 2090 | | | | |
| | 36,38 | 38 | 1,93 | 43 | 47 | 2,32 | 35 | 2090 | | | | |
| | 31,86 | 44 | 2,13 | 37 | 53 | 2,56 | 31 | 2000 | | | | |
| | 28,06 | 50 | 2,47 | 33 | 61 | 2,96 | 27 | 2000 | | | | |
| | 26,19 | 53 | 2,67 | 31 | 65 | 3,20 | 25 | 1960 | | | | |
| | 24,83 | 56 | 2,80 | 29 | 68 | 3,36 | 24 | 1900 | | | | |
| | 22,62 | 62 | 2,93 | 27 | 75 | 3,52 | 22 | 1900 | | | | |
| | 21,11 | 66 | 3,20 | 25 | 81 | 3,84 | 20 | 1900 | | | | |
| | 20,01 | 70 | 3,47 | 23 | 85 | 4,16 | 19 | 1900 | | | | |
| | 18,59 | 75 | 3,67 | 22 | 91 | 4,40 | 18 | 1900 | | | | |
| | 17,76 | 79 | 3,87 | 21 | 96 | 4,64 | 17 | 1860 | | | | |
| | 16,45 | 85 | 4,13 | 19 | 103 | 4,96 | 16 | 1860 | | | | |
| | 15,81 | 89 | 4,27 | 19 | 108 | 5,12 | 15 | 1800 | | | | |
| | 14,60 | 96 | 4,73 | 17 | 116 | 5,68 | 14 | 1800 | | | | |
| | 14,09 | 99 | 5,00 | 17 | 121 | 6,00 | 14 | 1800 | | | | |
| 13,00 | 108 | 5,27 | 15 | 131 | 6,32 | 13 | 1720 | | | | | |
| 11,58 | 121 | 5,93 | 14 | 147 | 7,12 | 11 | 1700 | | | | | |
| 11,24 | 125 | 3,60 | 13 | 151 | 4,32 | 11 | 1610 | | | | | |
| 9,845 | 142 | 4,00 | 12 | 173 | 4,80 | 10 | 1550 | | | | | |
| 8,672 | 161 | 4,53 | 10 | 196 | 5,44 | 9 | 1460 | | | | | |
| 7,673 | 182 | 5,27 | 9 | 222 | 6,32 | 8 | 1400 | | | | | |
| 6,872 | 204 | 7,60 | 8 | 247 | 9,12 | 7 | 1400 | | | | | |
| 6,080 | 230 | 8,53 | 7 | 280 | 10,24 | 6 | 1400 | | | | | |
| 5,538 | 253 | 9,13 | 7 | 307 | 10,96 | 5 | 1320 | | | | | |
| 5,398 | 259 | 9,47 | 6 | 315 | 11,36 | 5 | 1250 | | | | | |
| 4,900 | 286 | 10,07 | 6 | 347 | 12,08 | 5 | 1200 | | | | | |
| 4,803 | 291 | 10,67 | 6 | 354 | 12,80 | 5 | 1150 | | | | | |
| 4,350 | 322 | 11,27 | 5 | 391 | 13,52 | 4 | 1060 | | | | | |
| 4,280 | 327 | 11,87 | 5 | 397 | 14,24 | 4 | 1060 | | | | | |
| 3,870 | 362 | 12,80 | 5 | 439 | 15,36 | 4 | 1050 | | | | | |
| 3,449 | 406 | 14,33 | 4 | 493 | 17,20 | 3 | 1020 | | | | | |
| 0,25 0,34 | 10023 | 0,14 | 0,79 | 15611 | 0,17 | 0,95 | 12856 | 60000 | iRAM iRFM iRAFM | 143 iR 73 / 71 M 4a | 349 350 351 | 516 530 556 |
| | 8995 | 0,16 | 0,88 | 14010 | 0,19 | 1,06 | 11538 | 60000 | | | | |
| | 8569 | 0,16 | 0,93 | 13346 | 0,20 | 1,12 | 10991 | 60000 | | | | |
| | 7690 | 0,18 | 1,01 | 11977 | 0,22 | 1,21 | 9864 | 60000 | | | | |
| | 6932 | 0,20 | 1,15 | 10797 | 0,25 | 1,38 | 8891 | 60000 | | | | |
| | 6272 | 0,22 | 1,25 | 9769 | 0,27 | 1,50 | 8045 | 60000 | | | | |
| | 5692 | 0,25 | 1,39 | 8865 | 0,30 | 1,67 | 7301 | 60000 | | | | |
| | 5179 | 0,27 | 1,54 | 8066 | 0,33 | 1,84 | 6643 | 60000 | | | | |
| | 4310 | 0,32 | 1,82 | 6713 | 0,39 | 2,19 | 5528 | 60000 | | | | |
| | 3818 | 0,37 | 2,02 | 5947 | 0,45 | 2,42 | 4897 | 60000 | | | | |
| | 3602 | 0,39 | 2,16 | 5610 | 0,47 | 2,59 | 4620 | 60000 | | | | |
| | 3473 | 0,40 | 2,30 | 5409 | 0,49 | 2,76 | 4455 | 60000 | | | | |
| | 3091 | 0,45 | 2,52 | 4814 | 0,55 | 3,02 | 3965 | 60000 | | | | |
| | 2890 | 0,48 | 2,74 | 4501 | 0,59 | 3,28 | 3707 | 60000 | | | | |
| | 7333 | 0,19 | 0,85 | 11421 | 0,23 | 1,02 | 9406 | 55000 | | | | |
| | 6617 | 0,21 | 0,94 | 10306 | 0,26 | 1,13 | 8487 | 55000 | | | | |
| | 6286 | 0,22 | 0,96 | 9791 | 0,27 | 1,15 | 8063 | 55000 | | | | |
| | 5578 | 0,25 | 1,10 | 8688 | 0,30 | 1,32 | 7155 | 55000 | | | | |
| | 4983 | 0,28 | 1,20 | 7761 | 0,34 | 1,44 | 6391 | 55000 | | | | |
| | iRAM iRFM iRAFM | 123 iR 73 / 71 M 4a | 331 | 341 | | | | | | | | |
| 332 | | | 343 | | | | | | | | | |
| 333 | | | 371 | | | | | | | | | |



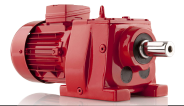
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo |   kg | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,25 0,34 | 4476 | 0,31 | 1,34 | 6971 | 0,38 | 1,61 | 5741 | 55000 | iRAM iRFM iRAFM | 123 iR 73 / 71 M 4a | 331 | 341 |
| | 4039 | 0,35 | 1,49 | 6291 | 0,42 | 1,79 | 5181 | 55000 | | | 332 | 343 |
| | 3659 | 0,38 | 1,63 | 5699 | 0,46 | 1,96 | 4693 | 55000 | | | 333 | 371 |
| | 3324 | 0,42 | 1,82 | 5177 | 0,51 | 2,19 | 4264 | 55000 | iRAM iRFM iRAFM | 122 iR 73 / 71 M 4a | 331 | 312 |
| | 4059 | 0,34 | 1,43 | 6418 | 0,42 | 1,71 | 5286 | 55000 | | | 332 | 314 |
| | 3671 | 0,38 | 1,58 | 5805 | 0,46 | 1,90 | 4780 | 55000 | | | 333 | 342 |
| | 3066 | 0,46 | 1,87 | 4848 | 0,55 | 2,25 | 3993 | 55000 | iRAM iRFM iRAFM | 103 iR 73 / 71 M 4a | 313 | 256 |
| | 2698 | 0,52 | 2,09 | 4266 | 0,63 | 2,51 | 3513 | 55000 | | | 314 | 259 |
| | 2333 | 0,60 | 2,52 | 3689 | 0,73 | 3,02 | 3038 | 55000 | | | 315 | 281 |
| | 4790 | 0,29 | 0,82 | 7461 | 0,35 | 0,98 | 6144 | 34000 | iRAM iRFM iRAFM | 102 iR 73 / 71 M 4a | 313 | 216 |
| | 4230 | 0,33 | 0,90 | 6588 | 0,40 | 1,08 | 5426 | 34000 | | | 314 | 219 |
| | 3760 | 0,37 | 0,94 | 5856 | 0,45 | 1,13 | 4823 | 34000 | | | 315 | 241 |
| | 3359 | 0,42 | 0,96 | 5232 | 0,51 | 1,15 | 4308 | 34000 | iRAM iRFM iRAFM | 92 iR 63 / 71 M 4a | 295 | 151 |
| | 3014 | 0,46 | 1,05 | 4694 | 0,56 | 1,26 | 3866 | 34000 | | | 296 | 161 |
| | 2713 | 0,52 | 1,15 | 4226 | 0,63 | 1,38 | 3480 | 34000 | | | 297 | 171 |
| | 2448 | 0,57 | 1,35 | 3813 | 0,69 | 1,62 | 3140 | 34000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 277 | 96 |
| | 2145 | 0,65 | 1,17 | 3392 | 0,79 | 1,40 | 2793 | 34000 | | | 278 | 101 |
| | 1916 | 0,73 | 1,31 | 3030 | 0,89 | 1,57 | 2495 | 34000 | | | 279 | 103 |
| | 1635 | 0,86 | 1,59 | 2585 | 1,0 | 1,91 | 2129 | 34000 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 |
| | 1460 | 0,96 | 1,74 | 2309 | 1,2 | 2,09 | 1901 | 34000 | | | 278 | 101 |
| | 1311 | 1,1 | 1,90 | 2073 | 1,3 | 2,28 | 1707 | 34000 | | | 279 | 103 |
| | 1180 | 1,2 | 2,40 | 1866 | 1,4 | 2,88 | 1537 | 34000 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 |
| | 1103 | 1,3 | 2,60 | 1744 | 1,5 | 3,12 | 1436 | 34000 | | | 278 | 101 |
| | 986 | 1,4 | 2,60 | 1559 | 1,7 | 3,12 | 1284 | 34000 | | | 279 | 103 |
| | 884 | 1,6 | 2,60 | 1398 | 1,9 | 3,12 | 1151 | 34000 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 |
| | 796 | 1,8 | 2,60 | 1259 | 2,1 | 3,12 | 1037 | 34000 | | | 278 | 101 |
| | 718 | 1,9 | 2,60 | 1135 | 2,4 | 3,12 | 935 | 34000 | | | 279 | 103 |
| | 650 | 2,2 | 2,60 | 1028 | 2,6 | 3,12 | 846 | 34000 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 |
| | 575 | 2,4 | 2,60 | 909 | 3,0 | 3,12 | 749 | 34000 | | | 278 | 101 |
| | 1886 | 0,74 | 0,85 | 2982 | 0,90 | 1,02 | 2456 | 26000 | | | 279 | 103 |
| | 1760 | 0,80 | 0,91 | 2783 | 0,97 | 1,09 | 2292 | 26000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 295 | 157 |
| | 1592 | 0,88 | 1,01 | 2517 | 1,1 | 1,21 | 2073 | 26000 | | | 296 | 167 |
| | 1409 | 0,99 | 1,15 | 2228 | 1,2 | 1,38 | 1835 | 26000 | | | 297 | 177 |
| | 1315 | 1,1 | 1,20 | 2079 | 1,3 | 1,44 | 1712 | 26000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 295 | 157 |
| | 1201 | 1,2 | 1,34 | 1899 | 1,4 | 1,61 | 1564 | 26000 | | | 296 | 167 |
| | 1098 | 1,3 | 1,82 | 1736 | 1,5 | 2,19 | 1430 | 26000 | | | 297 | 177 |
| | 993 | 1,4 | 1,97 | 1570 | 1,7 | 2,36 | 1293 | 26000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 295 | 157 |
| | 901 | 1,6 | 1,97 | 1425 | 1,9 | 2,36 | 1173 | 26000 | | | 296 | 167 |
| | 821 | 1,7 | 1,97 | 1298 | 2,1 | 2,36 | 1069 | 26000 | | | 297 | 177 |
| | 749 | 1,9 | 1,97 | 1184 | 2,3 | 2,36 | 975 | 26000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 295 | 157 |
| | 685 | 2,0 | 1,97 | 1083 | 2,5 | 2,36 | 892 | 26000 | | | 296 | 167 |
| | 725 | 1,9 | 2,80 | 1146 | 2,3 | 3,36 | 944 | 26000 | | | 297 | 177 |
| 648 | 2,2 | 3,10 | 1025 | 2,6 | 3,72 | 844 | 26000 | iRAM iRFM iRAFM | 93 iR 62 / 71 M 4a | 295 | 157 | |
| 1162 | 1,2 | 0,88 | 1837 | 1,5 | 1,06 | 1513 | 18100 | | | 296 | 167 | |
| 1043 | 1,3 | 0,98 | 1649 | 1,6 | 1,18 | 1358 | 18100 | | | 297 | 177 | |
| 940 | 1,5 | 1,09 | 1486 | 1,8 | 1,31 | 1224 | 18100 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 | |
| 851 | 1,6 | 1,20 | 1346 | 2,0 | 1,44 | 1108 | 18100 | | | 278 | 101 | |
| 772 | 1,8 | 1,33 | 1221 | 2,2 | 1,60 | 1005 | 18100 | | | 279 | 103 | |
| 724 | 1,9 | 1,32 | 1145 | 2,3 | 1,58 | 943 | 18100 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 | |
| 653 | 2,1 | 1,51 | 1033 | 2,6 | 1,81 | 850 | 18100 | | | 278 | 101 | |
| 590 | 2,4 | 1,62 | 933 | 2,9 | 1,94 | 768 | 18100 | | | 279 | 103 | |
| 536 | 2,6 | 1,85 | 848 | 3,2 | 2,22 | 698 | 18100 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 | 96 | |
| 488 | 2,9 | 1,95 | 772 | 3,5 | 2,34 | 635 | 18100 | | | 278 | 101 | |



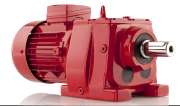
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--------------------|-------------------|------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,25 0,34 | 444 | 3,2 | 2,00 | 702 | 3,8 | 2,40 | 578 | 18100 | iRAM iRFM iRAFM | 82 iR 63 / 71 M 4a | 277 278 279 | 96 101 103 |
| | 406 | 3,4 | 2,20 | 642 | 4,2 | 2,64 | 529 | 18100 | | | | |
| | 394 | 3,6 | 2,40 | 623 | 4,3 | 2,88 | 513 | 18100 | | | | |
| | 359 | 3,9 | 2,50 | 568 | 4,7 | 3,00 | 467 | 18100 | | | | |
| | 315 | 4,4 | 3,10 | 498 | 5,4 | 3,72 | 410 | 18100 | | | | |
| | 286 | 4,9 | 3,30 | 452 | 5,9 | 3,96 | 372 | 18100 | | | | |
| | 261 | 5,4 | 3,50 | 413 | 6,5 | 4,20 | 340 | 18100 | | | | |
| | 700 | 1,3 | 0,90 | 1748 | 1,6 | 1,08 | 1430 | 18100 | iRAM iRFM iRAFM | 84 / 71 M 6b | 271 272 273 | 88 93 95 |
| | 635 | 1,4 | 0,99 | 1585 | 1,7 | 1,18 | 1297 | 18100 | | | | |
| | 579 | 1,6 | 1,08 | 1445 | 1,9 | 1,30 | 1183 | 18100 | | | | |
| | 530 | 1,7 | 1,18 | 1323 | 2,1 | 1,42 | 1083 | 18100 | | | | |
| | 487 | 1,8 | 1,29 | 1216 | 2,3 | 1,55 | 995 | 18100 | | | | |
| | 700 | 2,0 | 1,39 | 1124 | 2,4 | 1,67 | 925 | 18100 | | | | |
| | 635 | 2,2 | 1,54 | 1019 | 2,7 | 1,85 | 839 | 18100 | | | | |
| | 579 | 2,4 | 1,68 | 929 | 2,9 | 2,02 | 765 | 18100 | iRAM iRFM iRAFM | 84 / 71 M 4a | 271 272 273 | 87 92 94 |
| | 530 | 2,6 | 1,84 | 851 | 3,2 | 2,21 | 701 | 18100 | | | | |
| | 487 | 2,9 | 2,00 | 782 | 3,5 | 2,40 | 644 | 18100 | | | | |
| | 428 | 3,3 | 2,30 | 688 | 4,0 | 2,76 | 566 | 18100 | | | | |
| | 382 | 3,7 | 2,50 | 613 | 4,5 | 3,00 | 505 | 18100 | | | | |
| | 343 | 4,1 | 2,80 | 550 | 5,0 | 3,36 | 453 | 18100 | | | | |
| | 310 | 4,5 | 3,10 | 497 | 5,5 | 3,72 | 409 | 18100 | | | | |
| | 702 | 2,0 | 0,88 | 1110 | 2,4 | 1,06 | 914 | 12100 | iRAM iRFM iRAFM | 73 iR 52 / 71 M 4a | 259 260 261 | 59 62 65 |
| | 697 | 2,0 | 0,89 | 1102 | 2,4 | 1,07 | 908 | 12100 | | | | |
| | 627 | 2,2 | 0,96 | 991 | 2,7 | 1,15 | 816 | 12100 | | | | |
| | 563 | 2,5 | 1,10 | 890 | 3,0 | 1,32 | 733 | 12100 | | | | |
| | 553 | 2,5 | 1,10 | 874 | 3,1 | 1,32 | 720 | 12100 | | | | |
| | 535 | 2,6 | 1,10 | 846 | 3,2 | 1,32 | 697 | 12100 | | | | |
| | 469 | 3,0 | 1,25 | 742 | 3,6 | 1,50 | 611 | 12100 | | | | |
| | 419 | 3,3 | 1,39 | 663 | 4,1 | 1,67 | 546 | 12100 | | | | |
| | 414 | 3,4 | 1,39 | 655 | 4,1 | 1,67 | 539 | 12100 | | | | |
| | 376 | 3,7 | 1,54 | 595 | 4,5 | 1,84 | 490 | 12100 | | | | |
| | 370 | 3,8 | 1,58 | 585 | 4,6 | 1,90 | 482 | 12100 | | | | |
| | 332 | 4,2 | 1,73 | 525 | 5,1 | 2,07 | 432 | 12100 | | | | |
| | 276 | 5,1 | 1,87 | 436 | 6,2 | 2,25 | 359 | 12100 | | | | |
| | 270 | 5,2 | 1,92 | 427 | 6,3 | 2,30 | 352 | 12100 | | | | |
| | 250 | 5,6 | 2,06 | 395 | 6,8 | 2,48 | 326 | 12100 | | | | |
| | 244 | 5,7 | 2,11 | 386 | 7,0 | 2,53 | 318 | 12100 | | | | |
| | 232 | 6,0 | 2,20 | 372 | 7,3 | 2,64 | 307 | 12100 | iRAM iRFM iRAFM | 72 iR 52 / 71 M 4a | 259 260 261 | 57 60 63 |
| | 206 | 6,8 | 2,40 | 331 | 8,3 | 2,88 | 272 | 12100 | | | | |
| | 394 | 2,3 | 0,95 | 985 | 2,8 | 1,14 | 806 | 12100 | | | | |
| | 351 | 2,6 | 1,07 | 876 | 3,1 | 1,28 | 716 | 12100 | | | | |
| | 576 | 2,4 | 0,94 | 925 | 2,9 | 1,12 | 762 | 12100 | iRAM iRFM iRAFM | 74 / 71 M 4a | 253 254 255 | 50 53 56 |
| | 447 | 3,1 | 1,18 | 718 | 3,8 | 1,41 | 591 | 12100 | | | | |
| | 394 | 3,6 | 1,44 | 633 | 4,3 | 1,73 | 521 | 12100 | | | | |
| | 351 | 4,0 | 1,66 | 563 | 4,8 | 1,99 | 464 | 12100 | | | | |
| 314 | 4,5 | 1,72 | 504 | 5,4 | 2,06 | 415 | 12100 | | | | | |
| 283 | 5,0 | 1,80 | 454 | 6,0 | 2,16 | 374 | 12100 | iRAM iRFM iRAFM | 73 / 71 M 6b | 247 248 249 | 44 47 50 | |
| 154 | 5,8 | 2,23 | 392 | 7,1 | 2,68 | 320 | 12100 | | | | | |
| 134 | 6,7 | 2,59 | 339 | 8,2 | 3,11 | 277 | 12100 | | | | | |
| 103 | 8,7 | 3,24 | 261 | 11 | 3,89 | 214 | 12100 | | | | | |
| 154 | 9,1 | 3,40 | 252 | 11 | 4,08 | 207 | 12100 | iRAM iRFM iRAFM | 73 / 71 M 4a | 247 248 249 | 43 46 49 | |



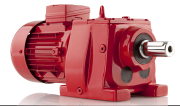
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------------|-----------------------|---------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg | | |
| 0,25 0,34 | 533 | 2,6 | 0,85 | 843 | 3,2 | 1,02 | 694 | 10100 | iRAM iRFM iRAFM | 721 iR 53 / 71 M 4a | 241 | 52 | | |
| | 491 | 2,9 | 0,90 | 776 | 3,5 | 1,08 | 639 | 10100 | | | | | | |
| | 480 | 2,9 | 0,94 | 759 | 3,5 | 1,12 | 625 | 10100 | | | | | | |
| | 423 | 3,3 | 1,06 | 669 | 4,0 | 1,27 | 551 | 10100 | | | | | | |
| | 390 | 3,6 | 1,10 | 617 | 4,4 | 1,32 | 508 | 10100 | | | | | | |
| | 344 | 4,1 | 1,25 | 544 | 4,9 | 1,50 | 448 | 10100 | | | | | | |
| | 306 | 4,6 | 1,44 | 484 | 5,6 | 1,73 | 398 | 10100 | | | | | | |
| | 274 | 5,1 | 1,49 | 433 | 6,2 | 1,79 | 357 | 10100 | | | | | | |
| | 246 | 5,7 | 1,63 | 389 | 6,9 | 1,96 | 320 | 10100 | | | | | | |
| | 221 | 6,3 | 1,87 | 349 | 7,7 | 2,25 | 288 | 10100 | | | | | | |
| | 199 | 7,0 | 2,02 | 315 | 8,5 | 2,42 | 259 | 10100 | | | | | | |
| | 180 | 7,8 | 2,23 | 285 | 9,4 | 2,68 | 234 | 10100 | | | | | | |
| | 163 | 8,6 | 2,52 | 258 | 10 | 3,02 | 212 | 10100 | | | | | | |
| | 148 | 9,5 | 2,74 | 234 | 11 | 3,28 | 193 | 10100 | | | | | | |
| | 530 | 2,6 | 0,85 | 838 | 3,2 | 1,02 | 690 | 10100 | | | iRAM iRFM iRAFM | 731 iR 52 / 71 M 4a | 241 | 57 |
| | 468 | 3,0 | 0,96 | 740 | 3,6 | 1,15 | 609 | 10100 | | | | | | |
| | 416 | 3,4 | 1,06 | 658 | 4,1 | 1,27 | 542 | 10100 | | | | | | |
| | 372 | 3,8 | 1,20 | 588 | 4,6 | 1,44 | 484 | 10100 | | | | | | |
| | 333 | 4,2 | 1,34 | 527 | 5,1 | 1,61 | 434 | 10100 | | | | | | |
| | 300 | 4,7 | 1,39 | 474 | 5,7 | 1,67 | 391 | 10100 | | | | | | |
| | 267 | 5,2 | 1,58 | 422 | 6,4 | 1,90 | 348 | 10100 | | | | | | |
| | 238 | 5,9 | 1,73 | 376 | 7,1 | 2,07 | 310 | 10100 | | | | | | |
| | 214 | 6,5 | 1,94 | 338 | 7,9 | 2,33 | 279 | 10100 | | | | | | |
| | 201 | 7,0 | 2,09 | 318 | 8,5 | 2,51 | 262 | 10100 | | | | | | |
| | 180 | 7,8 | 2,23 | 285 | 9,4 | 2,68 | 234 | 10100 | | | | | | |
| | 162 | 8,6 | 2,59 | 256 | 10 | 3,11 | 211 | 10100 | | | | | | |
| | 146 | 9,6 | 2,88 | 231 | 12 | 3,46 | 190 | 10100 | | | | | | |
| | 465 | 3,0 | 0,80 | 746 | 3,7 | 0,96 | 615 | 18100 | iRAM iRFM iRAFM | 741 / 71 M 4a | | | 235 | 47 |
| | 435 | 3,2 | 0,85 | 699 | 3,9 | 1,02 | 575 | 18100 | | | | | | |
| | 384 | 3,6 | 0,96 | 616 | 4,4 | 1,15 | 507 | 18100 | | | | | | |
| | 338 | 4,1 | 1,10 | 543 | 5,0 | 1,32 | 447 | 18100 | | | | | | |
| | 301 | 4,7 | 1,25 | 483 | 5,6 | 1,50 | 398 | 18100 | | | | | | |
| | 240 | 5,8 | 1,58 | 385 | 7,1 | 1,90 | 317 | 18100 | | | | | | |
| | 188 | 7,4 | 1,92 | 302 | 9,0 | 2,30 | 249 | 18100 | | | | | | |
| | 169 | 8,3 | 2,23 | 271 | 10 | 2,68 | 223 | 18100 | | | | | | |
| | 152 | 9,2 | 2,45 | 244 | 11 | 2,94 | 201 | 18100 | | | | | | |
| | 152 | 5,9 | 1,35 | 386 | 7,2 | 1,62 | 315 | 10100 | | | iRAM iRFM iRAFM | 731 / 71 M 6b | 229 | 41 |
| | 135 | 6,7 | 1,51 | 342 | 8,2 | 1,81 | 280 | 10100 | | | | | | |
| | 117 | 7,7 | 1,80 | 296 | 9,4 | 2,16 | 242 | 10100 | | | | | | |
| | 101 | 8,9 | 2,02 | 256 | 11 | 2,42 | 209 | 10100 | | | iRAM iRFM iRAFM | 731 / 71 M 4a | 231 | 47 |
| | 152 | 9,2 | 2,11 | 248 | 11 | 2,53 | 204 | 10100 | | | | | | |
| | 135 | 10 | 2,35 | 220 | 13 | 2,82 | 181 | 10100 | | | | | | |
| 117 | 12 | 2,74 | 190 | 15 | 3,28 | 157 | 10100 | | | | | | | |
| 101 | 14 | 3,17 | 164 | 17 | 3,80 | 135 | 10100 | | | | | | | |
| 88,93 | 16 | 3,50 | 145 | 19 | 4,20 | 119 | 10100 | iRAM iRFM iRAFM | 63 iR 52 / 71 M 4a | 223 | 42 | | | |
| 323 | 4,3 | 0,96 | 511 | 5,3 | 1,15 | 421 | 7300 | | | | | | | |
| 286 | 4,9 | 1,06 | 452 | 5,9 | 1,27 | 372 | 7300 | | | | | | | |
| 273 | 5,1 | 1,15 | 432 | 6,2 | 1,38 | 355 | 7300 | | | | | | | |
| 242 | 5,8 | 1,25 | 383 | 7,0 | 1,50 | 315 | 7300 | | | | | | | |
| 215 | 6,5 | 1,44 | 340 | 7,9 | 1,73 | 280 | 7300 | | | | | | | |
| 191 | 7,3 | 1,63 | 302 | 8,9 | 1,96 | 249 | 7300 | | | | | | | |
| 170 | 8,2 | 1,84 | 269 | 10,0 | 2,21 | 221 | 7300 | | | | | | | |
| 151 | 9,3 | 2,00 | 239 | 11 | 2,40 | 197 | 7300 | | | | | | | |
| 136 | 10 | 2,30 | 215 | 13 | 2,76 | 177 | 7300 | | | | | | | |



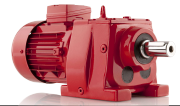
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-------------------------|--------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,25 0,34 | 231 | 6,1 | 1,10 | 371 | 7,4 | 1,32 | 305 | 7300 | iRAM iRFM iRAFM | 62 iR 52 / 71 M 4a | 223 224 225 | 43 48 49 |
| | 203 | 6,9 | 1,25 | 326 | 8,4 | 1,50 | 268 | 7300 | | | | |
| | 184 | 7,6 | 1,30 | 295 | 9,2 | 1,56 | 243 | 7300 | | | | |
| | 162 | 8,6 | 1,44 | 260 | 10 | 1,73 | 214 | 7300 | | | | |
| | 148 | 9,5 | 1,58 | 238 | 11 | 1,90 | 196 | 7300 | | | | |
| | 134 | 10 | 1,73 | 215 | 13 | 2,07 | 177 | 7300 | | | | |
| | 319 | 4,4 | 0,85 | 512 | 5,3 | 1,02 | 422 | 7300 | iRAM iRFM iRAFM | 64 / 71 M 4a | 217 218 219 | 30 35 36 |
| | 291 | 4,8 | 0,94 | 467 | 5,8 | 1,12 | 385 | 7300 | | | | |
| | 276 | 5,1 | 0,96 | 444 | 6,1 | 1,15 | 365 | 7300 | | | | |
| | 235 | 5,9 | 1,15 | 378 | 7,2 | 1,38 | 311 | 7300 | | | | |
| | 214 | 6,5 | 1,25 | 343 | 7,9 | 1,50 | 283 | 7300 | | | | |
| | 182 | 7,7 | 1,49 | 292 | 9,3 | 1,79 | 241 | 7300 | | | | |
| | 157 | 8,9 | 1,73 | 251 | 11 | 2,07 | 207 | 7300 | | | | |
| | 128 | 7,0 | 1,30 | 324 | 8,6 | 1,56 | 265 | 7300 | iRAPM iRFPM iRAFP | 63 / 71 M 6b | 214 215 216 | 27 32 33 |
| | 119 | 7,5 | 1,37 | 303 | 9,2 | 1,64 | 248 | 7300 | iRAM iRFM iRAFM | 63 / 71 M 6b | 211 212 213 | 27 32 33 |
| | 96,27 | 9,3 | 1,66 | 244 | 11 | 1,99 | 200 | 7300 | iRAPM iRFPM iRAFP | 63 / 71 M 4a | 214 215 216 | 26 31 32 |
| | 87,81 | 10 | 1,87 | 223 | 13 | 2,25 | 182 | 7300 | iRAM iRFM iRAFM | 63 / 71 M 4a | 211 212 213 | 26 31 32 |
| | 128 | 11 | 1,94 | 209 | 13 | 2,33 | 172 | 7300 | iRAM iRFM iRAFM | 63 / 71 M 4a | 211 212 213 | 26 31 32 |
| | 96,27 | 15 | 2,59 | 157 | 18 | 3,11 | 129 | 7300 | iRAPM iRFPM iRAFP | 631 / 71 M 6b | 196 197 198 | 30 35 36 |
| | 87,81 | 16 | 2,81 | 143 | 19 | 3,37 | 118 | 7300 | iRAM iRFM iRAFM | 631 / 71 M 6b | 193 194 195 | 30 35 36 |
| | 83,37 | 17 | 3,02 | 136 | 20 | 3,63 | 112 | 7300 | iRAM iRFM iRAFM | 631 / 71 M 6b | 196 197 198 | 30 35 36 |
| | 70,96 | 20 | 3,82 | 116 | 24 | 4,58 | 95 | 7300 | iRAM iRFM iRAFM | 631 / 71 M 4a | 193 194 195 | 30 35 36 |
| | 128 | 7,0 | 1,30 | 324 | 13 | 1,56 | 172 | 7300 | iRAM iRFM iRAFM | 631 / 71 M 4a | 187 188 189 | 24 26 27 |
| | 119 | 7,5 | 1,37 | 303 | 14 | 1,64 | 160 | 7300 | iRAM iRFM iRAFM | 53 iR 42 / 71 M 4a | 184 185 186 | 16 18 19 |
| | 96,27 | 9,3 | 1,66 | 244 | 18 | 1,99 | 129 | 7300 | iRAPM iRFPM iRAFP | 53 / 71 M 4a | 181 182 183 | 16 18 19 |
| | 87,81 | 10 | 1,87 | 223 | 19 | 2,25 | 118 | 7300 | iRAM iRFM iRAFM | 53 / 71 M 4a | | |
| | 128 | 11 | 1,94 | 209 | 13 | 2,33 | 172 | 7300 | iRAM iRFM iRAFM | | | |
| | 119 | 12 | 2,09 | 195 | 14 | 2,51 | 160 | 7300 | iRAM iRFM iRAFM | | | |
| | 96,27 | 15 | 2,59 | 157 | 18 | 3,11 | 129 | 7300 | iRAM iRFM iRAFM | | | |
| | 87,81 | 16 | 2,81 | 143 | 19 | 3,37 | 118 | 7300 | iRAM iRFM iRAFM | | | |
| | 83,37 | 17 | 3,02 | 136 | 20 | 3,63 | 112 | 7300 | iRAM iRFM iRAFM | | | |
| | 70,96 | 20 | 3,82 | 116 | 24 | 4,58 | 95 | 7300 | iRAM iRFM iRAFM | | | |
| | 168 | 8,3 | 0,80 | 266 | 10 | 0,96 | 219 | 4250 | iRAM iRFM iRAFM | | | |
| | 152 | 9,2 | 0,89 | 240 | 11 | 1,07 | 198 | 4250 | iRAM iRFM iRAFM | | | |
| | 136 | 10 | 0,96 | 215 | 13 | 1,15 | 177 | 4250 | iRAM iRFM iRAFM | | | |
| | 123 | 11 | 1,10 | 194 | 14 | 1,32 | 160 | 4250 | iRAM iRFM iRAFM | | | |
| | 111 | 13 | 1,20 | 176 | 15 | 1,44 | 145 | 4250 | iRAM iRFM iRAFM | | | |
| | 100 | 14 | 1,34 | 158 | 17 | 1,61 | 130 | 4250 | iRAM iRFM iRAFM | | | |
| | 106 | 13 | 1,10 | 172 | 16 | 1,32 | 142 | 4550 | iRAM iRFM iRAFM | | | |
| | 88,98 | 16 | 1,34 | 145 | 19 | 1,61 | 119 | 4550 | iRAM iRFM iRAFM | | | |
| 77,17 | 18 | 1,49 | 126 | 22 | 1,79 | 104 | 4500 | iRAM iRFM iRAFM | | | | |
| 67,60 | 21 | 1,58 | 110 | 25 | 1,90 | 91 | 4400 | iRAM iRFM iRAFM | | | | |
| 54,82 | 26 | 2,02 | 89 | 31 | 2,42 | 74 | 4400 | iRAM iRFM iRAFM | | | | |
| 48,41 | 29 | 2,45 | 79 | 35 | 2,94 | 65 | 4300 | iRAM iRFM iRAFM | | | | |
| 43,99 | 32 | 2,78 | 72 | 39 | 3,34 | 59 | 4150 | iRAM iRFM iRAFM | | | | |
| 39,10 | 36 | 3,07 | 64 | 43 | 3,69 | 52 | 4150 | iRAM iRFM iRAFM | | | | |
| 34,93 | 40 | 3,41 | 57 | 49 | 4,09 | 47 | 4150 | iRAM iRFM iRAFM | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [kg] | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | |
| 0,25 0,34 | 60,90 | 23 | 0,82 | 99 | 28 | 0,98 | 82 | 2130 | iRAM iRFM iRAFM 43 / 71 M 4a | 175 176 177 | 13 14 14 |
| | 53,33 | 26 | 0,93 | 87 | 32 | 1,12 | 72 | 2130 | | | |
| | 46,98 | 30 | 1,06 | 77 | 36 | 1,27 | 63 | 2130 | | | |
| | 36,38 | 38 | 1,39 | 59 | 47 | 1,67 | 49 | 2010 | | | |
| | 31,86 | 44 | 1,54 | 52 | 53 | 1,84 | 43 | 1920 | | | |
| | 28,06 | 50 | 1,78 | 46 | 61 | 2,13 | 38 | 1920 | | | |
| | 26,19 | 53 | 1,92 | 43 | 65 | 2,30 | 35 | 1880 | | | |
| | 24,83 | 56 | 2,02 | 40 | 68 | 2,42 | 33 | 1840 | | | |
| | 22,62 | 62 | 2,11 | 37 | 75 | 2,53 | 30 | 1830 | | | |
| | 21,11 | 66 | 2,30 | 34 | 81 | 2,76 | 28 | 1820 | | | |
| | 20,01 | 70 | 2,50 | 33 | 85 | 3,00 | 27 | 1810 | | | |
| | 18,59 | 75 | 2,64 | 30 | 91 | 3,17 | 25 | 1810 | | | |
| | 17,76 | 79 | 2,78 | 29 | 96 | 3,34 | 24 | 1780 | | | |
| | 16,45 | 85 | 2,98 | 27 | 103 | 3,57 | 22 | 1770 | | | |
| | 15,81 | 89 | 3,07 | 26 | 108 | 3,69 | 21 | 1720 | | | |
| | 14,60 | 96 | 3,41 | 24 | 116 | 4,09 | 20 | 1720 | | | |
| | 14,09 | 99 | 3,60 | 23 | 121 | 4,32 | 19 | 1720 | | | |
| | 13,00 | 108 | 3,79 | 21 | 131 | 4,55 | 17 | 1660 | | | |
| | 11,58 | 121 | 4,27 | 19 | 147 | 5,13 | 16 | 1630 | | | |
| | 11,24 | 125 | 2,59 | 19 | 151 | 3,11 | 15 | 1550 | | | |
| | 9,845 | 142 | 2,88 | 16 | 173 | 3,46 | 13 | 1490 | | | |
| | 8,672 | 161 | 3,26 | 14 | 196 | 3,92 | 12 | 1400 | | | |
| | 7,673 | 182 | 3,79 | 13 | 222 | 4,55 | 10 | 1340 | | | |
| | 6,872 | 204 | 5,47 | 11 | 247 | 6,57 | 9 | 1340 | | | |
| 6,080 | 230 | 6,14 | 10 | 280 | 7,37 | 8 | 1340 | | | | |
| 5,538 | 253 | 6,58 | 9 | 307 | 7,89 | 8 | 1260 | | | | |
| 5,398 | 259 | 6,82 | 9 | 315 | 8,18 | 7 | 1190 | | | | |
| 4,900 | 286 | 7,25 | 8 | 347 | 8,70 | 7 | 1140 | | | | |
| 4,803 | 291 | 7,68 | 8 | 354 | 9,22 | 7 | 1090 | | | | |
| 4,350 | 322 | 8,11 | 7 | 391 | 9,73 | 6 | 1000 | | | | |
| 4,280 | 327 | 8,54 | 7 | 397 | 10,25 | 6 | 1000 | | | | |
| 3,870 | 362 | 9,22 | 6 | 439 | 11,06 | 5 | 950 | | | | |
| 3,449 | 406 | 10,32 | 6 | 493 | 12,38 | 5 | 900 | | | | |
| 0,37 0,5 | 6272 | 0,22 | 0,84 | 14458 | 0,27 | 1,01 | 11906 | 60000 | iRAM iRFM iRAFM 143 iR 73 / 71 M 4b | 349 350 351 | 517 531 557 |
| | 5692 | 0,25 | 0,94 | 13121 | 0,30 | 1,13 | 10805 | 60000 | | | |
| | 5179 | 0,27 | 1,04 | 11938 | 0,33 | 1,25 | 9831 | 60000 | | | |
| | 4310 | 0,32 | 1,23 | 9935 | 0,39 | 1,48 | 8182 | 60000 | | | |
| | 3818 | 0,37 | 1,36 | 8801 | 0,45 | 1,63 | 7248 | 60000 | | | |
| | 3602 | 0,39 | 1,46 | 8303 | 0,47 | 1,75 | 6838 | 60000 | | | |
| | 3473 | 0,40 | 1,56 | 8006 | 0,49 | 1,87 | 6593 | 60000 | | | |
| | 3091 | 0,45 | 1,70 | 7125 | 0,55 | 2,04 | 5868 | 60000 | | | |
| | 2890 | 0,48 | 1,85 | 6662 | 0,59 | 2,22 | 5486 | 60000 | | | |
| | 2416 | 0,58 | 2,23 | 5569 | 0,70 | 2,68 | 4586 | 60000 | | | |
| | 2073 | 0,68 | 2,57 | 4779 | 0,82 | 3,08 | 3935 | 60000 | | | |
| | 4983 | 0,28 | 0,81 | 11486 | 0,34 | 0,97 | 9459 | 55000 | | | |
| | 4476 | 0,31 | 0,91 | 10318 | 0,38 | 1,09 | 8497 | 55000 | | | |
| | 4039 | 0,35 | 1,01 | 9310 | 0,42 | 1,21 | 7667 | 55000 | | | |
| | 3659 | 0,38 | 1,10 | 8434 | 0,46 | 1,32 | 6946 | 55000 | | | |
| | 3324 | 0,42 | 1,23 | 7662 | 0,51 | 1,48 | 6310 | 55000 | | | |
| | 4059 | 0,34 | 0,96 | 9499 | 0,42 | 1,16 | 7823 | 55000 | | | |
| | 3671 | 0,38 | 1,07 | 8591 | 0,46 | 1,28 | 7075 | 55000 | | | |
| | 3066 | 0,46 | 1,26 | 7175 | 0,55 | 1,52 | 5909 | 55000 | | | |
| | 2698 | 0,52 | 1,41 | 6314 | 0,63 | 1,69 | 5200 | 55000 | | | |
| | 2333 | 0,60 | 1,70 | 5460 | 0,73 | 2,04 | 4496 | 55000 | | | |
| | 2070 | 0,68 | 1,90 | 4844 | 0,82 | 2,28 | 3989 | 55000 | | | |
| | 1849 | 0,76 | 2,09 | 4327 | 0,92 | 2,51 | 3563 | 55000 | | | |
| | 1661 | 0,84 | 2,34 | 3887 | 1,0 | 2,80 | 3201 | 55000 | | | |
| iRAM iRFM iRAFM | 123 iR 73 / 71 M 4b | 331 | 342 | | | | | | | | |
| | | 332 | 344 | | | | | | | | |
| | | 333 | 372 | | | | | | | | |
| | | 331 | 313 | | | | | | | | |
| | | 332 | 315 | | | | | | | | |
| | | 333 | 343 | | | | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-------------------------|---------------------|-------------------|------------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,37 0,5 | 2448 | 0,57 | 0,91 | 5643 | 0,69 | 1,09 | 4647 | 34000 | İRAM İRFM İRAFMM | 103 İR 73 / 71 M 4b | 313 314 315 | 257 260 282 |
| | 2145 | 0,65 | 0,79 | 5020 | 0,79 | 0,95 | 4134 | 34000 | İRAM İRFM İRAFMM | 102 İR 73 / 71 M 4b | 313 314 315 | 217 220 242 |
| | 1916 | 0,73 | 0,89 | 4484 | 0,89 | 1,06 | 3693 | 34000 | | | | |
| | 1635 | 0,86 | 1,07 | 3826 | 1,0 | 1,29 | 3151 | 34000 | | | | |
| | 1460 | 0,96 | 1,18 | 3417 | 1,2 | 1,41 | 2814 | 34000 | | | | |
| | 1311 | 1,1 | 1,28 | 3068 | 1,3 | 1,54 | 2527 | 34000 | | | | |
| | 1180 | 1,2 | 1,62 | 2761 | 1,4 | 1,95 | 2274 | 34000 | | | | |
| | 1103 | 1,3 | 1,76 | 2581 | 1,5 | 2,11 | 2126 | 34000 | | | | |
| | 986 | 1,4 | 1,76 | 2307 | 1,7 | 2,11 | 1900 | 34000 | | | | |
| | 884 | 1,6 | 1,76 | 2069 | 1,9 | 2,11 | 1704 | 34000 | | | | |
| | 796 | 1,8 | 1,76 | 1863 | 2,1 | 2,11 | 1534 | 34000 | | | | |
| | 718 | 1,9 | 1,76 | 1680 | 2,4 | 2,11 | 1384 | 34000 | | | | |
| | 650 | 2,2 | 1,76 | 1521 | 2,6 | 2,11 | 1253 | 34000 | | | | |
| | 575 | 2,4 | 1,76 | 1346 | 3,0 | 2,11 | 1108 | 34000 | | | | |
| | 803 | 1,1 | 1,36 | 2966 | 1,4 | 1,63 | 2427 | 34000 | İRAM İRFM İRAFMM | 104 / 80 M 6a | 307 308 309 | 242 245 267 |
| | 720 | 1,3 | 1,53 | 2659 | 1,5 | 1,84 | 2176 | 34000 | | | | |
| | 612 | 1,5 | 1,85 | 2261 | 1,8 | 2,22 | 1850 | 34000 | | | | |
| | 548 | 1,6 | 2,10 | 2027 | 2,0 | 2,52 | 1659 | 34000 | | | | |
| | 495 | 1,8 | 2,30 | 1828 | 2,2 | 2,76 | 1495 | 34000 | | | | |
| | 1201 | 1,2 | 0,91 | 2811 | 1,4 | 1,09 | 2315 | 26000 | | | | |
| | 1098 | 1,3 | 1,23 | 2570 | 1,5 | 1,48 | 2116 | 26000 | | | | |
| | 993 | 1,4 | 1,33 | 2324 | 1,7 | 1,60 | 1914 | 26000 | | | | |
| | 901 | 1,6 | 1,33 | 2109 | 1,9 | 1,60 | 1736 | 26000 | | | | |
| | 821 | 1,7 | 1,33 | 1921 | 2,1 | 1,60 | 1582 | 26000 | | | | |
| | 749 | 1,9 | 1,33 | 1753 | 2,3 | 1,60 | 1444 | 26000 | | | | |
| | 685 | 2,0 | 1,33 | 1603 | 2,5 | 1,60 | 1320 | 26000 | | | | |
| | 725 | 1,9 | 1,89 | 1697 | 2,3 | 2,27 | 1397 | 26000 | | | | |
| | 648 | 2,2 | 2,09 | 1516 | 2,6 | 2,51 | 1249 | 26000 | | | | |
| | 538 | 2,6 | 2,30 | 1259 | 3,2 | 2,76 | 1037 | 26000 | İRAM İRFM İRAFMM | 93 İR 62 / 71 M 4b | 295 296 297 | 158 168 178 |
| | 527 | 2,7 | 2,57 | 1233 | 3,2 | 3,08 | 1016 | 26000 | | | | |
| | 479 | 2,9 | 2,84 | 1121 | 3,5 | 3,41 | 923 | 26000 | | | | |
| | 436 | 3,2 | 3,11 | 1020 | 3,9 | 3,73 | 840 | 26000 | | | | |
| | 398 | 3,5 | 3,38 | 931 | 4,3 | 4,05 | 767 | 26000 | | | | |
| | 364 | 3,8 | 3,72 | 852 | 4,7 | 4,46 | 702 | 26000 | | | | |
| | 334 | 4,2 | 4,05 | 782 | 5,1 | 4,86 | 644 | 26000 | | | | |
| | 478 | 1,9 | 1,67 | 1768 | 2,3 | 2,00 | 1447 | 26000 | | | | |
| | 431 | 2,1 | 1,85 | 1594 | 2,6 | 2,22 | 1304 | 26000 | | | | |
| | 380 | 2,4 | 2,10 | 1405 | 2,9 | 2,52 | 1149 | 26000 | | | | |
| | 338 | 2,7 | 2,35 | 1248 | 3,3 | 2,82 | 1021 | 26000 | | | | |
| | 293 | 3,1 | 2,50 | 1101 | 3,7 | 3,00 | 901 | 26000 | İRAMP İRFP İRAFPM | 93 / 80 M 6a | 286 287 288 | 133 143 153 |
| | 274 | 3,3 | 2,68 | 1027 | 4,0 | 3,22 | 840 | 26000 | | | | |
| | 241 | 3,7 | 3,00 | 902 | 4,6 | 3,60 | 738 | 26000 | | | | |
| 214 | 4,2 | 3,50 | 801 | 5,1 | 4,20 | 656 | 26000 | | | | | |
| 772 | 1,8 | 0,90 | 1807 | 2,2 | 1,08 | 1488 | 18100 | İRAM İRFM İRAFMM | 82 İR 63 / 71 M 4b | 277 278 279 | 97 102 104 | |
| 724 | 1,9 | 0,89 | 1694 | 2,3 | 1,07 | 1395 | 18100 | | | | | |
| 653 | 2,1 | 1,02 | 1528 | 2,6 | 1,22 | 1258 | 18100 | | | | | |
| 590 | 2,4 | 1,09 | 1381 | 2,9 | 1,31 | 1137 | 18100 | | | | | |
| 530 | 1,7 | 0,80 | 1958 | 2,1 | 0,96 | 1602 | 18100 | İRAM İRFM İRAFMM | 84 / 80 M 6a | 271 272 273 | 90 95 97 | |
| 487 | 1,8 | 0,87 | 1800 | 2,3 | 1,04 | 1473 | 18100 | | | | | |
| 530 | 2,6 | 1,24 | 1259 | 3,2 | 1,49 | 1037 | 18100 | | | | | İRAM İRFM İRAFMM |
| 487 | 2,9 | 1,35 | 1157 | 3,5 | 1,62 | 953 | 18100 | | | | | |
| 428 | 3,3 | 1,55 | 1018 | 4,0 | 1,86 | 838 | 18100 | | | | | |
| 382 | 3,7 | 1,69 | 907 | 4,5 | 2,03 | 747 | 18100 | | | | | |
| 343 | 4,1 | 1,89 | 815 | 5,0 | 2,27 | 671 | 18100 | | | | | |



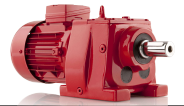
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [mm] | [kg] | |
|---|---------------------------------------|---|--|--|---|--|--|--|-------------------------|---------------------|------|------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,37 0,5 | 310 | 4,5 | 2,09 | 736 | 5,5 | 2,51 | 606 | 18100 | iRAM iRFM iRAFM | 84 / 71 M 4b | 271 | 88 |
| | 275 | 5,1 | 2,36 | 654 | 6,2 | 2,84 | 538 | 18100 | | | 272 | 93 |
| | 273 | 5,1 | 2,30 | 649 | 6,2 | 2,76 | 534 | 18100 | | | 273 | 95 |
| | 243 | 5,8 | 2,50 | 577 | 7,0 | 3,00 | 475 | 18100 | iRAM iRFM iRAFM | 83 / 80 M 6a | 265 | 80 |
| | 218 | 6,4 | 2,80 | 517 | 7,8 | 3,36 | 426 | 18100 | | | 266 | 85 |
| | 251 | 3,6 | 1,57 | 940 | 4,4 | 1,88 | 769 | 18100 | | | 267 | 87 |
| | 221 | 4,1 | 1,78 | 830 | 5,0 | 2,14 | 679 | 18100 | iRAM iRFM iRAFM | 74 / 71 M 4b | 253 | 51 |
| | 209 | 4,3 | 2,00 | 783 | 5,3 | 2,40 | 640 | 18100 | | | 254 | 54 |
| | 187 | 4,8 | 2,10 | 701 | 5,9 | 2,52 | 573 | 18100 | | | 255 | 57 |
| | 168 | 5,3 | 2,30 | 632 | 6,5 | 2,76 | 517 | 18100 | iRAM iRFM iRAFM | 73 / 80 M 6a | 247 | 46 |
| | 394 | 3,6 | 0,97 | 937 | 4,3 | 1,17 | 771 | 12100 | | | 248 | 49 |
| | 351 | 4,0 | 1,12 | 833 | 4,8 | 1,34 | 686 | 12100 | | | 249 | 52 |
| | 314 | 4,5 | 1,16 | 746 | 5,4 | 1,39 | 614 | 12100 | iRAM iRFM iRAFM | 73 / 71 M 4b | 247 | 44 |
| | 283 | 5,0 | 1,22 | 672 | 6,0 | 1,46 | 553 | 12100 | | | 248 | 47 |
| | 154 | 5,8 | 1,51 | 580 | 7,1 | 1,81 | 474 | 12100 | | | 249 | 50 |
| | 134 | 6,7 | 1,75 | 501 | 8,2 | 2,10 | 410 | 12100 | iRAM iRFM iRAFM | 721 iR 53 / 71 M 4b | 241 | 53 |
| | 103 | 8,7 | 2,19 | 386 | 11 | 2,63 | 316 | 12100 | | | 242 | 56 |
| | 91,36 | 9,9 | 2,77 | 343 | 12 | 3,33 | 280 | 12100 | | | 243 | 59 |
| | 154 | 9,1 | 2,30 | 373 | 11 | 2,76 | 307 | 12100 | iRAM iRFM iRAFM | 731 iR 52 / 71 M 4b | 241 | 58 |
| | 134 | 10 | 2,64 | 322 | 13 | 3,16 | 265 | 12100 | | | 242 | 61 |
| | 103 | 14 | 3,40 | 248 | 17 | 4,08 | 205 | 12100 | | | 243 | 64 |
| | 344 | 4,1 | 0,84 | 805 | 4,9 | 1,01 | 663 | 10100 | iRAM iRFM iRAFM | 741 / 71 M 4b | 235 | 48 |
| | 306 | 4,6 | 0,97 | 716 | 5,6 | 1,17 | 590 | 10100 | | | 236 | 51 |
| | 274 | 5,1 | 1,01 | 641 | 6,2 | 1,21 | 528 | 10100 | | | 237 | 54 |
| | 246 | 5,7 | 1,10 | 576 | 6,9 | 1,32 | 474 | 10100 | iRAM iRFM iRAFM | 731 / 80 M 6a | 229 | 44 |
| | 372 | 3,8 | 0,81 | 871 | 4,6 | 0,97 | 717 | 10100 | | | 230 | 47 |
| | 333 | 4,2 | 0,91 | 779 | 5,1 | 1,09 | 642 | 10100 | | | 231 | 50 |
| | 300 | 4,7 | 0,94 | 702 | 5,7 | 1,13 | 578 | 10100 | iRAM iRFM iRAFM | 731 / 71 M 4b | 229 | 42 |
| | 267 | 5,2 | 1,07 | 625 | 6,4 | 1,28 | 515 | 10100 | | | 230 | 45 |
| | 301 | 4,7 | 0,84 | 715 | 5,6 | 1,01 | 589 | 12100 | | | 231 | 48 |
| | 240 | 5,8 | 1,07 | 570 | 7,1 | 1,28 | 469 | 12100 | iRAM iRFM iRAFM | 64 / 71 M 4b | 217 | 31 |
| | 188 | 7,4 | 1,30 | 448 | 9,0 | 1,56 | 369 | 12100 | | | 218 | 36 |
| | 169 | 8,3 | 1,51 | 401 | 10 | 1,81 | 330 | 12100 | | | 219 | 37 |
| | 152 | 9,2 | 1,65 | 361 | 11 | 1,98 | 297 | 12100 | iRAPM iRFPM iRAFP | 63 / 80 M 6a | 214 | 29 |
| | 152 | 5,9 | 0,91 | 571 | 7,2 | 1,10 | 467 | 10100 | | | 215 | 34 |
| | 135 | 6,7 | 1,02 | 506 | 8,2 | 1,23 | 414 | 10100 | | | 216 | 35 |
| | 117 | 7,7 | 1,22 | 438 | 9,4 | 1,46 | 358 | 10100 | iRAM iRFM iRAFM | 63 / 80 M 6a | 211 | 29 |
| | 101 | 8,9 | 1,36 | 378 | 11 | 1,63 | 310 | 10100 | | | 212 | 34 |
| | 152 | 9,2 | 1,43 | 367 | 11 | 1,71 | 302 | 10100 | | | 213 | #YOK |
| | 135 | 10 | 1,59 | 325 | 13 | 1,91 | 268 | 10100 | iRAM iRFM iRAFM | 53 iR 42 / 71 M 4b | 187 | 25 |
| 117 | 12 | 1,85 | 281 | 15 | 2,22 | 232 | 10100 | 188 | | | 27 | |
| 101 | 14 | 2,14 | 243 | 17 | 2,57 | 200 | 10100 | 189 | | | 28 | |
| 88,93 | 16 | 2,36 | 215 | 19 | 2,84 | 177 | 10100 | iRAM iRFM iRAFM | 64 / 71 M 4b | 217 | 31 | |
| 235 | 5,9 | 0,78 | 559 | 7,2 | 0,93 | 460 | 7300 | | | 218 | 36 | |
| 214 | 6,5 | 0,84 | 508 | 7,9 | 1,01 | 418 | 7300 | | | 219 | 37 | |
| 182 | 7,7 | 1,01 | 433 | 9,3 | 1,21 | 356 | 7300 | iRAM iRFM iRAFM | 63 / 80 M 6a | 214 | 29 | |
| 157 | 8,9 | 1,17 | 372 | 11 | 1,40 | 306 | 7300 | | | 215 | 34 | |
| 128 | 7,0 | 0,88 | 480 | 8,6 | 1,05 | 393 | 7170 | | | 216 | 35 | |
| 119 | 7,5 | 0,92 | 448 | 9,2 | 1,11 | 367 | 7170 | iRAM iRFM iRAFM | 63 / 80 M 6a | 211 | 29 | |
| 96,27 | 9,3 | 1,12 | 361 | 11 | 1,34 | 296 | 7170 | | | 212 | 34 | |
| 87,81 | 10 | 1,26 | 329 | 13 | 1,52 | 270 | 7170 | | | 213 | #YOK | |
| 111 | 13 | 0,81 | 260 | 15 | 0,97 | 214 | 4250 | iRAM iRFM iRAFM | 53 iR 42 / 71 M 4b | 187 | 25 | |
| 100 | 14 | 0,91 | 234 | 17 | 1,09 | 193 | 4250 | | | 188 | 27 | |
| | | | | | | | | | | 189 | 28 | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-------------------------|---------------|-----------------------|--------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg | | |
| 0,37 0,5 | 128 | 11 | 1,31 | 309 | 13 | 1,58 | 254 | 7170 | iRAPM iRFPM iRAFP | 63 / 71 M 4b | 214 | 27 | | |
| | 119 | 12 | 1,41 | 288 | 14 | 1,69 | 237 | 7170 | | | 215 | 32 | | |
| | 96,27 | 15 | 1,75 | 232 | 18 | 2,10 | 191 | 7170 | | | 216 | 33 | | |
| | 87,81 | 16 | 1,90 | 212 | 19 | 2,28 | 174 | 7170 | iRAM iRFM iRAFM | 63 / 71 M 4b | 211 | 27 | | |
| | 83,37 | 17 | 2,04 | 201 | 20 | 2,45 | 166 | 7170 | | | 212 | 32 | | |
| | 70,96 | 20 | 2,58 | 171 | 24 | 3,09 | 141 | 7170 | | | 213 | 33 | | |
| | 61,03 | 23 | 2,77 | 147 | 28 | 3,33 | 121 | 7170 | | | | | | |
| | 51,65 | 27 | 3,78 | 125 | 33 | 4,54 | 103 | 7170 | | | | | | |
| | 128 | 7,0 | 0,88 | 480 | 13 | 1,05 | 254 | 7170 | iRAPM iRFPM iRAFP | 631 / 80 M 6a | 196 | 33 | | |
| | 119 | 7,5 | 0,92 | 448 | 14 | 1,11 | 237 | 7170 | | | 197 | 38 | | |
| | 96,27 | 9,3 | 1,12 | 361 | 18 | 1,34 | 191 | 7170 | | | 198 | 39 | | |
| | 87,81 | 10 | 1,26 | 329 | 19 | 1,52 | 174 | 7170 | iRAM iRFM iRAFM | 631 / 80 M 6a | 193 | 33 | | |
| | 128 | 11 | 1,31 | 309 | 13 | 1,58 | 254 | 7170 | | | 194 | 38 | | |
| | 119 | 12 | 1,41 | 288 | 14 | 1,69 | 237 | 7170 | | | 195 | 39 | | |
| | 96,27 | 15 | 1,75 | 232 | 18 | 2,10 | 191 | 7170 | | | | | | |
| | 87,81 | 16 | 1,90 | 212 | 19 | 2,28 | 174 | 7170 | iRAPM iRFPM iRAFP | 631 / 71 M 4b | 196 | 31 | | |
| | 83,37 | 17 | 2,04 | 201 | 20 | 2,45 | 166 | 7170 | | | 197 | 36 | | |
| | 70,96 | 20 | 2,58 | 171 | 24 | 3,09 | 141 | 7170 | | | 198 | 37 | | |
| | 61,03 | 23 | 2,77 | 147 | 28 | 3,33 | 121 | 7170 | | | | | | |
| | 51,65 | 27 | 3,78 | 125 | 33 | 4,54 | 103 | 7170 | | | | | | |
| | 88,98 | 16 | 0,91 | 215 | 19 | 1,09 | 177 | 4250 | iRAPM iRFPM iRAFP | 53 / 71 M 4b | 184 | 17 | | |
| | 77,17 | 18 | 1,01 | 186 | 22 | 1,21 | 153 | 4250 | | | 185 | 19 | | |
| | 67,60 | 21 | 1,07 | 163 | 25 | 1,28 | 134 | 4200 | | | 186 | 20 | | |
| | 54,82 | 26 | 1,36 | 132 | 31 | 1,63 | 109 | 4050 | iRAM iRFM iRAFM | 53 / 71 M 4b | | | | |
| | 48,41 | 29 | 1,65 | 117 | 35 | 1,98 | 96 | 4050 | | | | | | |
| | 43,99 | 32 | 1,88 | 106 | 39 | 2,26 | 87 | 4050 | | | | | | |
| | 39,10 | 36 | 2,08 | 94 | 43 | 2,49 | 78 | 4000 | | | 181 | 17 | | |
| | 34,93 | 40 | 2,30 | 84 | 49 | 2,76 | 69 | 4000 | | | 182 | 19 | | |
| | 31,34 | 45 | 2,50 | 76 | 54 | 3,00 | 62 | 4000 | | | 183 | 20 | | |
| | 28,21 | 50 | 2,81 | 68 | 60 | 3,37 | 56 | 4000 | | | | | | |
| | 25,46 | 55 | 2,98 | 61 | 67 | 3,58 | 51 | 3850 | | | | | | |
| | 23,03 | 61 | 3,24 | 56 | 74 | 3,89 | 46 | 3800 | | | | | | |
| | 21,88 | 64 | 3,31 | 53 | 78 | 3,97 | 43 | 3800 | | | | | | |
| | 17,18 | 81 | 3,50 | 42 | 99 | 4,20 | 35 | 3600 | | | iRAM iRFM iRAFM | 52 / 71 M 4b | 181 | 20 |
| | 15,05 | 93 | 4,30 | 37 | 113 | 5,16 | 30 | 3550 | | | | | 182 | 22 |
| | 13,29 | 105 | 4,80 | 33 | 128 | 5,76 | 27 | 3500 | 183 | 23 | | | | |
| | 11,81 | 119 | 5,40 | 29 | 144 | 6,48 | 24 | 3500 | | | | | | |
| | 10,56 | 133 | 5,90 | 26 | 161 | 7,08 | 21 | 3500 | iRAM iRFM iRAFM | 43 / 71 M 4b | | | | |
| | 36,38 | 38 | 0,94 | 88 | 47 | 1,13 | 72 | 1880 | | | | | | |
| | 31,86 | 44 | 1,04 | 77 | 53 | 1,25 | 63 | 1850 | | | | | | |
| | 28,06 | 50 | 1,20 | 68 | 61 | 1,44 | 56 | 1820 | | | | | | |
| | 26,19 | 53 | 1,30 | 63 | 65 | 1,56 | 52 | 1800 | | | | | | |
| | 24,83 | 56 | 1,36 | 60 | 68 | 1,63 | 49 | 1760 | | | | | | |
| | 22,62 | 62 | 1,43 | 55 | 75 | 1,71 | 45 | 1740 | | | 175 | 14 | | |
| | 21,11 | 66 | 1,56 | 51 | 81 | 1,87 | 42 | 1700 | | | 176 | 15 | | |
| | 20,01 | 70 | 1,69 | 48 | 85 | 2,02 | 40 | 1650 | | | 177 | 15 | | |
| | 18,59 | 75 | 1,78 | 45 | 91 | 2,14 | 37 | 1600 | | | | | | |
| | 17,76 | 79 | 1,88 | 43 | 96 | 2,26 | 35 | 1600 | | | | | | |
| 16,45 | 85 | 2,01 | 40 | 103 | 2,41 | 33 | 1550 | | | | | | | |
| 15,81 | 89 | 2,08 | 38 | 108 | 2,49 | 31 | 1500 | | | | | | | |



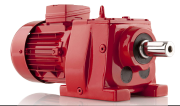
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [kg] | [kg] | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|------|------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,37 0,5 | 14,60 | 96 | 2,30 | 35 | 116 | 2,76 | 29 | 1500 | iRAM iRFM iRAFM | 43 / 71 M 4b | 175 | 14 |
| | 14,09 | 99 | 2,43 | 34 | 121 | 2,92 | 28 | 1490 | | | 176 | 15 |
| | 13,00 | 108 | 2,56 | 31 | 131 | 3,07 | 26 | 1450 | | | 177 | 15 |
| | 11,58 | 121 | 2,89 | 28 | 147 | 3,46 | 23 | 1430 | iRAM iRFM iRAFM | 42 / 71 M 4b | 175 | 13 |
| | 11,24 | 125 | 1,75 | 28 | 151 | 2,10 | 23 | 1400 | | | | |
| | 9,845 | 142 | 1,95 | 24 | 173 | 2,34 | 20 | 1350 | | | | |
| | 8,672 | 161 | 2,21 | 21 | 196 | 2,65 | 17 | 1300 | | | | |
| | 7,673 | 182 | 2,56 | 19 | 222 | 3,07 | 15 | 1250 | | | | |
| | 6,872 | 204 | 3,70 | 17 | 247 | 4,44 | 14 | 1200 | | | | |
| | 6,080 | 230 | 4,15 | 15 | 280 | 4,98 | 12 | 1150 | | | | |
| | 5,538 | 253 | 4,44 | 14 | 307 | 5,33 | 11 | 1100 | | | | |
| | 5,398 | 259 | 4,61 | 13 | 315 | 5,53 | 11 | 1080 | | | | |
| | 4,900 | 286 | 4,90 | 12 | 347 | 5,88 | 10 | 1030 | | | | |
| | 4,803 | 291 | 5,19 | 12 | 354 | 6,23 | 10 | 970 | | | | |
| | 4,350 | 322 | 5,48 | 11 | 391 | 6,58 | 9 | 950 | | | | |
| | 4,280 | 327 | 5,77 | 10 | 397 | 6,93 | 9 | 900 | | | | |
| 3,870 | 362 | 6,23 | 9 | 439 | 7,47 | 8 | 900 | | | | | |
| 3,449 | 406 | 6,97 | 8 | 493 | 8,37 | 7 | 850 | | | | | |
| 0,55 0,75 | 6078 | 0,23 | 0,80 | 20828 | 0,28 | 0,96 | 17152 | 110000 | iRAPM iRFPM iRAFP | 153 iR 93 / 80 M 4a | 376 | 1068 |
| | 4749 | 0,29 | 1,02 | 16274 | 0,36 | 1,22 | 13402 | 110000 | | | 377 | 1118 |
| | 4079 | 0,34 | 1,19 | 13978 | 0,42 | 1,43 | 11512 | 110000 | | | 378 | 1138 |
| | 2979 | 0,47 | 1,73 | 10362 | 0,57 | 2,08 | 8533 | 110000 | iRAPM iRFPM iRAFP M | 153 iR 92 / 80 M 4a | 376 | 1063 |
| | 2597 | 0,54 | 1,98 | 9033 | 0,65 | 2,38 | 7439 | 110000 | | | | |
| | 2175 | 0,64 | 2,40 | 7568 | 0,78 | 2,88 | 6232 | 110000 | | | | |
| | 1932 | 0,72 | 2,70 | 6721 | 0,88 | 3,24 | 5535 | 110000 | | | | |
| | 1754 | 0,80 | 2,90 | 6100 | 0,97 | 3,48 | 5023 | 110000 | iRAPM iRFPM iRAFP M | 152 iR 93 / 80 M 4a | 376 | 993 |
| | 3282 | 0,43 | 1,57 | 11416 | 0,52 | 1,88 | 9402 | 110000 | | | | |
| | 2975 | 0,47 | 1,73 | 10348 | 0,57 | 2,08 | 8522 | 110000 | | | | |
| | 2710 | 0,52 | 1,90 | 9427 | 0,63 | 2,28 | 7764 | 110000 | | | | |
| | 2479 | 0,56 | 2,10 | 8625 | 0,69 | 2,52 | 7103 | 110000 | | | | |
| | 1937 | 0,72 | 2,70 | 6739 | 0,88 | 3,24 | 5550 | 110000 | | | | |
| | 1847 | 0,76 | 2,60 | 6427 | 0,92 | 3,12 | 5293 | 110000 | | | | |
| | 1683 | 0,83 | 2,90 | 5855 | 1,0 | 3,48 | 4822 | 110000 | iRAM iRFM iRAFM | 143 iR 73 / 80 M 4a | 349 | 519 |
| | 4310 | 0,32 | 0,83 | 14768 | 0,39 | 0,99 | 12162 | 60000 | | | | |
| | 3818 | 0,37 | 0,92 | 13083 | 0,45 | 1,10 | 10774 | 60000 | | | | |
| | 3602 | 0,39 | 0,98 | 12342 | 0,47 | 1,18 | 10164 | 60000 | | | | |
| | 3473 | 0,40 | 1,05 | 11900 | 0,49 | 1,26 | 9800 | 60000 | | | | |
| | 3091 | 0,45 | 1,15 | 10591 | 0,55 | 1,37 | 8722 | 60000 | | | | |
| | 2890 | 0,48 | 1,24 | 9903 | 0,59 | 1,49 | 8155 | 60000 | | | | |
| | 2416 | 0,58 | 1,50 | 8279 | 0,70 | 1,80 | 6818 | 60000 | | | | |
| | 2073 | 0,68 | 1,73 | 7103 | 0,82 | 2,07 | 5850 | 60000 | | | | |
| | 2184 | 0,64 | 1,68 | 7598 | 0,78 | 2,02 | 6257 | 60000 | | | | |
| | 1979 | 0,71 | 1,86 | 6884 | 0,86 | 2,23 | 5669 | 60000 | iRAM iRFM iRAFM | 143 iR 72 / 80 M 4a | 349 | 517 |
| | 1795 | 0,78 | 2,00 | 6244 | 0,95 | 2,40 | 5142 | 60000 | | | | |
| | 1398 | 1,0 | 2,60 | 4863 | 1,2 | 3,12 | 4005 | 60000 | | | | |
| | 1247 | 1,1 | 2,90 | 4338 | 1,4 | 3,48 | 3572 | 60000 | iRAM iRFM iRAFM | 123 iR 72 / 80 M 4a | 331 | 342 |
| | 2829 | 0,49 | 0,91 | 9841 | 0,60 | 1,09 | 8105 | 55000 | | | | |
| | 2517 | 0,56 | 1,05 | 8756 | 0,68 | 1,25 | 7211 | 55000 | | | | |
| | 2260 | 0,62 | 1,14 | 7862 | 0,75 | 1,36 | 6475 | 55000 | | | | |
| | 2044 | 0,68 | 1,27 | 7110 | 0,83 | 1,53 | 5856 | 55000 | | | | |
| 1657 | 0,84 | 1,68 | 5764 | 1,0 | 2,02 | 4747 | 55000 | | | | | |
| 1511 | 0,93 | 1,86 | 5256 | 1,1 | 2,24 | 4329 | 55000 | | | | | |
| 1357 | 1,0 | 2,09 | 4721 | 1,3 | 2,50 | 3888 | 55000 | | | | | |
| 1227 | 1,1 | 2,29 | 4268 | 1,4 | 2,74 | 3515 | 55000 | | | | | |
| 1025 | 1,4 | 2,76 | 3566 | 1,7 | 3,31 | 2936 | 55000 | | | | | |



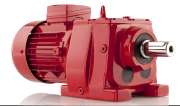
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|----------------------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,55 0,75 | 2698 | 0,52 | 0,95 | 9386 | 0,63 | 1,14 | 7729 | 55000 | İRAM İRFM İRAFM | 122 İR 73 / 80 M 4a | 331 | 315 |
| | 2333 | 0,60 | 1,15 | 8116 | 0,73 | 1,37 | 6684 | 55000 | | | 332 | 317 |
| | 2070 | 0,68 | 1,28 | 7201 | 0,82 | 1,53 | 5930 | 55000 | | | 333 | 345 |
| | 1849 | 0,76 | 1,41 | 6432 | 0,92 | 1,69 | 5297 | 55000 | İRAM İRFM İRAFM | 103 İR 72 / 80 M 4a | 313 | 257 |
| | 1661 | 0,84 | 1,57 | 5778 | 1,0 | 1,89 | 4758 | 55000 | | | 314 | 260 |
| | 1535 | 0,91 | 1,59 | 5340 | 1,1 | 1,91 | 4398 | 55000 | | | 315 | 282 |
| | 1173 | 1,2 | 1,09 | 4081 | 1,4 | 1,31 | 3360 | 34000 | İRAM İRFM İRAFM | 102 İR 73 / 80 M 4a | 313 | 219 |
| | 1046 | 1,3 | 1,20 | 3639 | 1,6 | 1,44 | 2997 | 34000 | | | 314 | 222 |
| | 923 | 1,5 | 1,32 | 3211 | 1,8 | 1,58 | 2644 | 34000 | | | 315 | 244 |
| | 1460 | 0,96 | 0,79 | 5079 | 1,2 | 0,95 | 4183 | 34000 | İRAM İRFM İRAFM | 104 / 80 M 6b | 307 | 243 |
| | 1311 | 1,1 | 0,86 | 4561 | 1,3 | 1,04 | 3756 | 34000 | | | 308 | 246 |
| | 1180 | 1,2 | 1,09 | 4105 | 1,4 | 1,10 | 3607 | 34000 | | | 309 | 268 |
| | 1103 | 1,3 | 1,18 | 3837 | 1,5 | 1,24 | 3234 | 34000 | İRAM İRFM İRAFM | 104 / 80 M 4a | 307 | 241 |
| | 986 | 1,4 | 1,18 | 3430 | 1,7 | 1,42 | 2825 | 34000 | | | 308 | 244 |
| | 884 | 1,6 | 1,18 | 3075 | 1,9 | 1,42 | 2533 | 34000 | | | 309 | 266 |
| | 803 | 1,1 | 0,91 | 4409 | 1,4 | 1,10 | 3607 | 34000 | İRAM İRFM İRAFM | 94 / 80 M 6b | 289 | 153 |
| | 720 | 1,3 | 1,03 | 3953 | 1,5 | 1,24 | 3234 | 34000 | | | 290 | 163 |
| | 612 | 1,5 | 1,24 | 3361 | 1,8 | 1,49 | 2750 | 34000 | | | 291 | 173 |
| | 548 | 1,6 | 1,41 | 3013 | 2,0 | 1,70 | 2465 | 34000 | İRAM İRFM İRAFM | 94 / 80 M 4a | 289 | 151 |
| | 495 | 1,8 | 1,55 | 2717 | 2,2 | 1,86 | 2223 | 34000 | | | 290 | 161 |
| | 803 | 1,7 | 1,43 | 2834 | 2,1 | 1,72 | 2334 | 34000 | | | 291 | 171 |
| | 720 | 1,9 | 1,60 | 2541 | 2,4 | 1,92 | 2093 | 34000 | İRAM İRFM İRAFM | 93 / 80 M 6b | 286 | 135 |
| | 612 | 2,3 | 1,95 | 2160 | 2,8 | 2,34 | 1779 | 34000 | | | 287 | 145 |
| | 548 | 2,6 | 2,20 | 1937 | 3,1 | 2,64 | 1595 | 34000 | | | 288 | 155 |
| | 495 | 2,8 | 2,40 | 1746 | 3,4 | 2,88 | 1438 | 34000 | İRAM İRFM İRAFM | 93 / 80 M 4a | 286 | 133 |
| | 447 | 3,1 | 2,70 | 1577 | 3,8 | 3,24 | 1299 | 34000 | | | 287 | 143 |
| | 406 | 3,5 | 2,90 | 1433 | 4,2 | 3,48 | 1180 | 34000 | | | 288 | 153 |
| | 478 | 1,9 | 1,12 | 2628 | 2,3 | 1,35 | 2150 | 26000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 |
| | 431 | 2,1 | 1,24 | 2369 | 2,6 | 1,49 | 1939 | 26000 | | | 272 | 95 |
| | 380 | 2,4 | 1,41 | 2088 | 2,9 | 1,70 | 1708 | 26000 | | | 273 | 97 |
| | 338 | 2,7 | 1,58 | 1856 | 3,3 | 1,90 | 1518 | 26000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 |
| | 478 | 2,9 | 1,75 | 1689 | 3,6 | 2,10 | 1391 | 26000 | | | 272 | 95 |
| | 431 | 3,2 | 1,94 | 1523 | 3,9 | 2,33 | 1254 | 26000 | | | 273 | 97 |
| | 380 | 3,7 | 2,20 | 1342 | 4,5 | 2,64 | 1105 | 26000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 |
| | 338 | 4,1 | 2,50 | 1193 | 5,0 | 3,00 | 982 | 26000 | | | 272 | 95 |
| | 302 | 4,6 | 2,70 | 1067 | 5,6 | 3,24 | 879 | 26000 | | | 273 | 97 |
| | 269 | 5,2 | 3,10 | 950 | 6,3 | 3,72 | 783 | 26000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 |
| | 237 | 5,9 | 3,50 | 838 | 7,2 | 4,20 | 690 | 26000 | | | 272 | 95 |
| | 293 | 3,1 | 1,68 | 1637 | 3,7 | 2,02 | 1339 | 24700 | | | 273 | 97 |
| | 274 | 3,3 | 1,80 | 1527 | 4,0 | 2,16 | 1249 | 24700 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 |
| 241 | 3,7 | 2,02 | 1341 | 4,6 | 2,42 | 1098 | 24700 | 272 | | | 95 | |
| 214 | 4,2 | 2,35 | 1191 | 5,1 | 2,83 | 975 | 24700 | 273 | | | 97 | |
| 293 | 4,8 | 2,66 | 1052 | 5,8 | 3,19 | 867 | 25000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 274 | 5,1 | 2,85 | 981 | 6,2 | 3,42 | 808 | 25000 | | | 272 | 95 | |
| 241 | 5,8 | 3,20 | 862 | 7,1 | 3,84 | 710 | 25000 | | | 273 | 97 | |
| 214 | 6,6 | 3,65 | 766 | 8,0 | 4,38 | 631 | 25000 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 530 | 2,6 | 0,84 | 1871 | 3,2 | 1,00 | 1541 | 18100 | | | 272 | 95 | |
| 487 | 2,9 | 0,91 | 1720 | 3,5 | 1,09 | 1416 | 18100 | | | 273 | 97 | |
| 428 | 3,3 | 1,05 | 1513 | 4,0 | 1,25 | 1246 | 18100 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 382 | 3,7 | 1,14 | 1349 | 4,5 | 1,36 | 1111 | 18100 | | | 272 | 95 | |
| 343 | 4,1 | 1,27 | 1211 | 5,0 | 1,53 | 997 | 18100 | | | 273 | 97 | |
| 310 | 4,5 | 1,41 | 1094 | 5,5 | 1,69 | 901 | 18100 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 275 | 5,1 | 1,59 | 972 | 6,2 | 1,91 | 800 | 18100 | | | 272 | 95 | |
| 273 | 5,1 | 1,55 | 964 | 6,2 | 1,85 | 794 | 18100 | | | 273 | 97 | |
| 243 | 5,8 | 1,68 | 857 | 7,0 | 2,02 | 706 | 18100 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 218 | 6,4 | 1,88 | 769 | 7,8 | 2,26 | 633 | 18100 | | | 272 | 95 | |
| 196 | 7,1 | 2,09 | 693 | 8,7 | 2,50 | 571 | 18100 | | | 273 | 97 | |
| 174 | 8,0 | 2,35 | 616 | 9,7 | 2,83 | 508 | 18100 | İRAM İRFM İRAFM | 84 / 80 M 4a | 271 | 90 | |
| 168 | 8,3 | 2,55 | 595 | 10 | 3,07 | 490 | 18100 | | | 272 | 95 | |



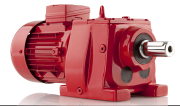
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,55 0,75 | 251 | 3,6 | 1,06 | 1397 | 4,4 | 1,27 | 1143 | 17350 | iRAM iRFM iRAFM | 83 / 80 M 6b | 265 | 82 |
| | 221 | 4,1 | 1,20 | 1233 | 5,0 | 1,44 | 1009 | 17350 | | | 266 | 87 |
| | 209 | 4,3 | 1,35 | 1163 | 5,3 | 1,61 | 952 | 17350 | | | 267 | 89 |
| | 187 | 4,8 | 1,41 | 1041 | 5,9 | 1,70 | 852 | 17300 | iRAM iRFM iRAFM | 83 / 80 M 4a | 265 | 80 |
| | 168 | 5,3 | 1,55 | 939 | 6,5 | 1,86 | 768 | 17300 | | | | |
| | 251 | 5,6 | 1,65 | 898 | 6,8 | 1,98 | 740 | 17350 | | | | |
| | 221 | 6,3 | 1,86 | 793 | 7,7 | 2,23 | 653 | 17350 | | | | |
| | 209 | 6,7 | 2,10 | 748 | 8,2 | 2,52 | 616 | 17350 | | | | |
| | 187 | 7,5 | 2,20 | 669 | 9,1 | 2,64 | 551 | 17350 | | | | |
| | 168 | 8,3 | 2,40 | 604 | 10 | 2,88 | 497 | 17350 | | | | |
| | 153 | 9,2 | 2,60 | 547 | 11 | 3,12 | 451 | 17100 | | | | |
| | 139 | 10 | 2,90 | 499 | 12 | 3,48 | 411 | 17100 | | | | |
| | 127 | 11 | 3,20 | 457 | 13 | 3,84 | 376 | 17100 | | | | |
| | 117 | 12 | 3,50 | 420 | 15 | 4,20 | 346 | 17100 | iRAM iRFM iRAFM | 72 iR 52 / 80 M 4a | 259 | 60 |
| | 103 | 14 | 3,90 | 369 | 17 | 4,68 | 304 | 17100 | | | 260 | 63 |
| | 232 | 6,0 | 1,00 | 819 | 7,3 | 1,20 | 675 | 11500 | iRAM iRFM iRAFM | 74 / 80 M 4a | 253 | 52 |
| | 206 | 6,8 | 1,09 | 728 | 8,3 | 1,31 | 599 | 11500 | | | 254 | 55 |
| | 283 | 5,0 | 0,82 | 999 | 6,0 | 0,98 | 822 | 12100 | | | 255 | 58 |
| | 154 | 5,8 | 1,01 | 861 | 7,1 | 1,22 | 705 | 11500 | iRAM iRFM iRAFM | 73 / 80 M 6b | 247 | 48 |
| | 134 | 6,7 | 1,18 | 745 | 8,2 | 1,41 | 609 | 11500 | | | 248 | 51 |
| | 103 | 8,7 | 1,47 | 574 | 11 | 1,77 | 470 | 11500 | | | 249 | 54 |
| | 91,36 | 9,9 | 1,87 | 510 | 12 | 2,24 | 417 | 11500 | iRAM iRFM iRAFM | 73 / 80 M 4a | 247 | 46 |
| | 154 | 9,1 | 1,55 | 554 | 11 | 1,85 | 456 | 11500 | | | | |
| | 134 | 10 | 1,77 | 479 | 13 | 2,13 | 394 | 11500 | | | | |
| | 103 | 14 | 2,29 | 369 | 17 | 2,74 | 304 | 11500 | | | | |
| | 91,36 | 15 | 2,89 | 328 | 19 | 3,47 | 270 | 11500 | | | | |
| | 81,25 | 17 | 3,30 | 291 | 21 | 3,96 | 240 | 11500 | | | | |
| | 72,76 | 19 | 3,50 | 261 | 23 | 4,20 | 215 | 11500 | | | | |
| | 65,52 | 21 | 3,60 | 235 | 26 | 4,32 | 193 | 11500 | | | | |
| | 59,42 | 24 | 3,90 | 213 | 29 | 4,68 | 175 | 11500 | | | | |
| | 221 | 6,3 | 0,85 | 769 | 7,7 | 1,02 | 633 | 9500 | | | | |
| | 199 | 7,0 | 0,92 | 692 | 8,5 | 1,10 | 570 | 9500 | 242 | 57 | | |
| | 188 | 7,4 | 0,87 | 665 | 9,0 | 1,05 | 548 | 12100 | 243 | 60 | | |
| | 169 | 8,3 | 1,01 | 596 | 10 | 1,22 | 491 | 12100 | iRAM iRFM iRAFM | 741 / 80 M 4a | 235 | 50 |
| | 152 | 9,2 | 1,11 | 536 | 11 | 1,34 | 442 | 12100 | | | 236 | 53 |
| | 117 | 7,7 | 0,82 | 651 | 9,4 | 0,98 | 532 | 9500 | | | 237 | 56 |
| | 101 | 8,9 | 0,92 | 562 | 11 | 1,10 | 460 | 9500 | iRAM iRFM iRAFM | 731 / 80 M 6b | 229 | 45 |
| | 152 | 9,2 | 0,96 | 545 | 11 | 1,15 | 449 | 9500 | | | 230 | 48 |
| | 135 | 10 | 1,07 | 484 | 13 | 1,28 | 398 | 9500 | | | 231 | 51 |
| | 117 | 12 | 1,24 | 418 | 15 | 1,49 | 344 | 9500 | iRAM iRFM iRAFM | 731 / 80 M 4a | 229 | 43 |
| 101 | 14 | 1,44 | 362 | 17 | 1,73 | 298 | 9500 | | | | | |
| 88,93 | 16 | 1,59 | 319 | 19 | 1,91 | 263 | 9500 | | | | | |
| 78,43 | 18 | 1,82 | 281 | 22 | 2,18 | 232 | 9350 | | | | | |
| 69,75 | 20 | 2,05 | 250 | 24 | 2,45 | 206 | 9350 | | | | | |
| 62,46 | 22 | 2,32 | 224 | 27 | 2,78 | 184 | 9300 | | | | | |
| 55,54 | 25 | 2,62 | 199 | 31 | 3,15 | 164 | 9250 | | | | | |
| 49,74 | 28 | 2,89 | 178 | 34 | 3,47 | 147 | 9250 | | | | | |
| 44,79 | 31 | 3,23 | 161 | 38 | 3,87 | 132 | 9200 | | | | | |
| 157 | 8,9 | 0,79 | 553 | 11 | 0,94 | 455 | 7300 | iRAM iRFM iRAFM | | | | |
| | | | | | | | | | | | 218 | 37 |
| | | | | | | | | | | | 219 | 38 |



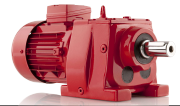
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,55 0,75 | 87,81 | 10 | 0,85 | 490 | 13 | 1,02 | 401 | 7090 | iRAM iRFM iRAFM | 63 / 80 M 6b | 211 | 31 |
| | | | | | | | | | | | 212 | 36 |
| | | | | | | | | | | | 213 | 37 |
| | 128 | 11 | 0,88 | 459 | 13 | 1,06 | 378 | 7090 | iRAM iRFM iRAFM | 63 / 80 M 4a | 211 | 29 |
| | 119 | 12 | 0,95 | 428 | 14 | 1,14 | 353 | 7090 | | | | |
| | 96,27 | 15 | 1,18 | 345 | 18 | 1,41 | 284 | 7090 | | | | |
| | 87,81 | 16 | 1,28 | 315 | 19 | 1,53 | 259 | 7090 | | | | |
| | 83,37 | 17 | 1,37 | 299 | 20 | 1,65 | 246 | 7090 | | | | |
| | 70,96 | 20 | 1,73 | 254 | 24 | 2,08 | 210 | 7090 | | | | |
| | 61,03 | 23 | 1,87 | 219 | 28 | 2,24 | 180 | 7090 | | | | |
| | 51,65 | 27 | 2,55 | 185 | 33 | 3,06 | 153 | 7090 | | | | |
| | 46,79 | 30 | 2,77 | 168 | 36 | 3,33 | 138 | 7090 | | | | |
| | 42,55 | 33 | 3,10 | 153 | 40 | 3,72 | 126 | 7090 | | | | |
| | 35,74 | 39 | 3,70 | 128 | 48 | 4,44 | 106 | 7090 | | | | |
| | 87,81 | 10 | 0,85 | 490 | 19 | 1,02 | 259 | 7090 | | | | |
| | | | | | | | | | 194 | 39 | | |
| | | | | | | | | | 195 | 40 | | |
| | 128 | 11 | 0,88 | 459 | 13 | 1,06 | 378 | 7090 | iRAM iRFM iRAFM | 631 / 80 M 4a | 193 | 32 |
| | 119 | 12 | 0,95 | 428 | 14 | 1,14 | 353 | 7090 | | | | |
| | 96,27 | 15 | 1,18 | 345 | 18 | 1,41 | 284 | 7090 | | | | |
| | 87,81 | 16 | 1,28 | 315 | 19 | 1,53 | 259 | 7090 | | | | |
| | 83,37 | 17 | 1,37 | 299 | 20 | 1,65 | 246 | 7090 | | | | |
| | 70,96 | 20 | 1,73 | 254 | 24 | 2,08 | 210 | 7090 | | | | |
| | 61,03 | 23 | 1,87 | 219 | 28 | 2,24 | 180 | 7090 | | | | |
| | 51,65 | 27 | 2,55 | 185 | 33 | 3,06 | 153 | 7090 | | | | |
| | 46,79 | 30 | 2,77 | 168 | 36 | 3,33 | 138 | 7090 | | | | |
| | 42,55 | 33 | 3,10 | 153 | 40 | 3,72 | 126 | 7090 | | | | |
| | 35,74 | 39 | 3,70 | 128 | 48 | 4,44 | 106 | 7090 | | | | |
| | 54,82 | 26 | 0,92 | 197 | 31 | 1,10 | 162 | 4150 | | | | |
| | 48,41 | 29 | 1,11 | 174 | 35 | 1,34 | 143 | 4000 | | | | |
| | 43,99 | 32 | 1,27 | 158 | 39 | 1,52 | 130 | 3950 | | | | |
| | 39,10 | 36 | 1,40 | 140 | 43 | 1,68 | 115 | 3950 | | | | |
| | 34,93 | 40 | 1,55 | 125 | 49 | 1,86 | 103 | 3900 | | | | |
| | 31,34 | 45 | 1,68 | 112 | 54 | 2,02 | 93 | 3900 | | | | |
| | 28,21 | 50 | 1,89 | 101 | 60 | 2,26 | 83 | 3900 | | | | |
| | 25,46 | 55 | 2,01 | 91 | 67 | 2,41 | 75 | 3800 | | | | |
| | 23,03 | 61 | 2,18 | 83 | 74 | 2,62 | 68 | 3700 | | | | |
| | 21,88 | 64 | 2,23 | 78 | 78 | 2,67 | 65 | 3700 | | | | |
| | 17,18 | 81 | 2,35 | 63 | 99 | 2,83 | 52 | 3450 | | | | |
| | 15,05 | 93 | 2,89 | 55 | 113 | 3,47 | 45 | 3450 | | | | |
| | 13,29 | 105 | 3,23 | 48 | 128 | 3,87 | 40 | 3400 | iRAM iRFM iRAFM | 52 / 80 M 4a | 181 | 22 |
| | 11,81 | 119 | 3,63 | 43 | 144 | 4,36 | 35 | 3350 | | | 182 | 24 |
| | 10,56 | 133 | 3,97 | 38 | 161 | 4,76 | 32 | 3350 | | | 183 | 25 |
| | 9,470 | 148 | 4,41 | 34 | 180 | 5,29 | 28 | 3350 | iRAM iRFM iRAFM | 43 / 80 M 4a | 175 | 15 |
| | 28,06 | 50 | 0,81 | 101 | 61 | 0,97 | 83 | 1620 | | | | |
| | 26,19 | 53 | 0,87 | 94 | 65 | 1,05 | 77 | 1600 | | | | |
| | 24,83 | 56 | 0,92 | 89 | 68 | 1,10 | 73 | 1560 | | | | |
| | 22,62 | 62 | 0,96 | 81 | 75 | 1,15 | 67 | 1540 | | | | |
| 21,11 | 66 | 1,05 | 76 | 81 | 1,26 | 62 | 1500 | | | | | |
| 20,01 | 70 | 1,13 | 72 | 85 | 1,36 | 59 | 1450 | | | | | |
| 18,59 | 75 | 1,20 | 67 | 91 | 1,44 | 55 | 1400 | | | | | |
| 17,76 | 79 | 1,27 | 64 | 96 | 1,52 | 52 | 1400 | | | | | |
| 16,45 | 85 | 1,35 | 59 | 103 | 1,62 | 49 | 1350 | | | | | |
| 15,81 | 89 | 1,40 | 57 | 108 | 1,68 | 47 | 1300 | | | | | |
| 14,60 | 96 | 1,55 | 52 | 116 | 1,86 | 43 | 1300 | | | | | |
| 14,09 | 99 | 1,64 | 51 | 121 | 1,96 | 42 | 1290 | | | | | |
| 13,00 | 108 | 1,72 | 47 | 131 | 2,07 | 38 | 1250 | | | | | |
| 11,58 | 121 | 1,94 | 42 | 147 | 2,33 | 34 | 1230 | | | | | |



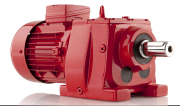
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,55 0,75 | 11,24 | 125 | 1,18 | 41 | 151 | 1,41 | 34 | 1360 | iRAM iRFM iRAFM | 42 / 80 M 4a | 175 176 177 | 14 15 16 |
| | 9,845 | 142 | 1,31 | 36 | 173 | 1,57 | 30 | 1310 | | | | |
| | 8,672 | 161 | 1,48 | 32 | 196 | 1,78 | 26 | 1270 | | | | |
| | 7,673 | 182 | 1,72 | 28 | 222 | 2,07 | 23 | 1220 | | | | |
| | 6,872 | 204 | 2,49 | 25 | 247 | 2,98 | 21 | 1160 | | | | |
| | 6,080 | 230 | 2,79 | 22 | 280 | 3,35 | 18 | 1110 | | | | |
| | 5,538 | 253 | 2,99 | 20 | 307 | 3,59 | 17 | 1060 | | | | |
| | 5,398 | 259 | 3,10 | 20 | 315 | 3,72 | 16 | 1050 | | | | |
| | 4,900 | 286 | 3,29 | 18 | 347 | 3,95 | 15 | 1020 | | | | |
| | 4,803 | 291 | 3,49 | 17 | 354 | 4,19 | 14 | 940 | | | | |
| | 4,350 | 322 | 3,69 | 16 | 391 | 4,42 | 13 | 910 | | | | |
| | 4,280 | 327 | 3,88 | 16 | 397 | 4,66 | 13 | 880 | | | | |
| | 3,870 | 362 | 4,19 | 14 | 439 | 5,03 | 12 | 860 | | | | |
| 3,449 | 406 | 4,69 | 13 | 493 | 5,63 | 10 | 810 | | | | | |
| 0,75 1,1 | 4079 | 0,34 | 0,87 | 19061 | 0,42 | 1,04 | 15698 | 110000 | iRAPM iRFPM iRAFP | 153 iR 93 / 80 M 4b | 376 377 378 | 1071 1121 1141 |
| | 2979 | 0,47 | 1,27 | 14130 | 0,57 | 1,52 | 11636 | 110000 | iRAPM iRFPM iRAFP M | 153 iR 92 / 80 M 4b | 376 377 378 | 1066 1116 1136 |
| | 2597 | 0,54 | 1,45 | 12317 | 0,65 | 1,74 | 10143 | 110000 | | | | |
| | 2175 | 0,64 | 1,76 | 10319 | 0,78 | 2,11 | 8498 | 110000 | | | | |
| | 1932 | 0,72 | 1,98 | 9165 | 0,88 | 2,38 | 7547 | 110000 | | | | |
| | 1754 | 0,80 | 2,10 | 8318 | 0,97 | 2,52 | 6850 | 110000 | | | | |
| | 1589 | 0,88 | 2,30 | 7540 | 1,1 | 2,76 | 6209 | 110000 | | | | |
| | 1381 | 1,0 | 2,70 | 6552 | 1,2 | 3,24 | 5395 | 110000 | | | | |
| | 3282 | 0,43 | 1,15 | 15568 | 0,52 | 1,38 | 12820 | 110000 | iRAPM iRFPM iRAFP M | 152 iR 93 / 80 M 4b | 376 377 378 | 996 1046 1046 |
| | 2975 | 0,47 | 1,27 | 14111 | 0,57 | 1,52 | 11621 | 110000 | | | | |
| | 2710 | 0,52 | 1,39 | 12855 | 0,63 | 1,67 | 10587 | 110000 | | | | |
| | 2479 | 0,56 | 1,54 | 11762 | 0,69 | 1,85 | 9686 | 110000 | | | | |
| | 1937 | 0,72 | 1,98 | 9190 | 0,88 | 2,38 | 7568 | 110000 | | | | |
| | 1847 | 0,76 | 1,91 | 8764 | 0,92 | 2,29 | 7217 | 110000 | | | | |
| | 1683 | 0,83 | 2,10 | 7984 | 1,0 | 2,52 | 6575 | 110000 | | | | |
| | 1540 | 0,91 | 2,30 | 7305 | 1,1 | 2,76 | 6016 | 110000 | iRAM iRFM iRAFM | 143 iR 73 / 80 M 4b | 349 350 351 | 522 536 562 |
| | 1414 | 0,99 | 2,50 | 6708 | 1,2 | 3,00 | 5524 | 110000 | | | | |
| | 1203 | 1,2 | 2,90 | 5707 | 1,4 | 3,48 | 4700 | 110000 | | | | |
| | 3091 | 0,45 | 0,84 | 14443 | 0,55 | 1,01 | 11894 | 60000 | | | | |
| | 2890 | 0,48 | 0,91 | 13504 | 0,59 | 1,09 | 11121 | 60000 | | | | |
| | 2416 | 0,58 | 1,10 | 11289 | 0,70 | 1,32 | 9297 | 60000 | | | | |
| | 2073 | 0,68 | 1,27 | 9686 | 0,82 | 1,52 | 7977 | 60000 | | | | |
| | 2184 | 0,64 | 1,23 | 10360 | 0,78 | 1,48 | 8532 | 60000 | iRAM iRFM iRAFM | 143 iR 72 / 80 M 4b | 349 350 351 | 520 534 560 |
| | 1979 | 0,71 | 1,36 | 9388 | 0,86 | 1,64 | 7731 | 60000 | | | | |
| | 1795 | 0,78 | 1,47 | 8515 | 0,95 | 1,76 | 7012 | 60000 | | | | |
| | 1398 | 1,0 | 1,91 | 6632 | 1,2 | 2,29 | 5461 | 60000 | | | | |
| | 1247 | 1,1 | 2,13 | 5915 | 1,4 | 2,55 | 4872 | 60000 | | | | |
| | 1120 | 1,3 | 2,35 | 5313 | 1,5 | 2,82 | 4375 | 60000 | | | | |
| | 983 | 1,4 | 2,71 | 4663 | 1,7 | 3,26 | 3840 | 60000 | | | | |
| | 877 | 1,6 | 3,00 | 4160 | 1,9 | 3,60 | 3426 | 60000 | iRAM iRFM iRAFM | 123 iR 72 / 80 M 4b | 331 332 333 | 345 347 375 |
| | 2260 | 0,62 | 0,83 | 10721 | 0,75 | 1,00 | 8829 | 55000 | | | | |
| | 2044 | 0,68 | 0,93 | 9696 | 0,83 | 1,12 | 7985 | 55000 | | | | |
| 1657 | 0,84 | 1,23 | 7860 | 1,0 | 1,48 | 6473 | 55000 | | | | | |
| 1511 | 0,93 | 1,37 | 7168 | 1,1 | 1,64 | 5903 | 55000 | | | | | |
| 1357 | 1,0 | 1,53 | 6437 | 1,3 | 1,84 | 5301 | 55000 | | | | | |
| 1227 | 1,1 | 1,68 | 5821 | 1,4 | 2,01 | 4793 | 55000 | | | | | |
| 1025 | 1,4 | 2,02 | 4862 | 1,7 | 2,43 | 4004 | 55000 | | | | | |
| 902 | 1,6 | 2,27 | 4279 | 1,9 | 2,73 | 3524 | 55000 | | | | | |
| 800 | 1,8 | 2,57 | 3795 | 2,1 | 3,08 | 3125 | 55000 | | | | | |
| 715 | 2,0 | 2,90 | 3392 | 2,4 | 3,48 | 2793 | 55000 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------------|-----|-----|--------------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | |
| 0,75 1,1 | 2070 | 0,68 | 0,94 | 9819 | 0,82 | 1,12 | 8087 | 55000 | iRAM iRFM iRAFM | 122 iR 73 / 80 M 4b | 331 | 318 | | | |
| | 1849 | 0,76 | 1,03 | 8771 | 0,92 | 1,24 | 7223 | 55000 | | | | | | | |
| | 1661 | 0,84 | 1,15 | 7879 | 1,0 | 1,38 | 6489 | 55000 | | | | | | | |
| | 1535 | 0,91 | 1,17 | 7282 | 1,1 | 1,40 | 5997 | 55000 | | | | | | | |
| | 1362 | 1,0 | 1,17 | 6461 | 1,2 | 1,40 | 5321 | 55000 | | | | | | | |
| | 1265 | 1,1 | 1,53 | 6001 | 1,3 | 1,83 | 4942 | 55000 | | | | | | | |
| | 1050 | 1,3 | 1,90 | 4981 | 1,6 | 2,28 | 4102 | 55000 | | | | | | | |
| | 935 | 1,5 | 1,90 | 4435 | 1,8 | 2,28 | 3653 | 55000 | | | | | | | |
| | 833 | 1,7 | 1,90 | 3952 | 2,0 | 2,28 | 3254 | 55000 | | | | | | | |
| | 748 | 1,9 | 1,90 | 3548 | 2,3 | 2,28 | 2922 | 55000 | | | | | | | |
| | 706 | 2,0 | 1,90 | 3349 | 2,4 | 2,28 | 2758 | 55000 | | | | | | | |
| | 634 | 2,2 | 1,90 | 3008 | 2,7 | 2,28 | 2477 | 55000 | | | | | | | |
| | 572 | 2,4 | 1,90 | 2713 | 3,0 | 2,28 | 2235 | 55000 | | | | | | | |
| | 518 | 2,7 | 1,90 | 2457 | 3,3 | 2,28 | 2024 | 55000 | | | | | | | |
| | 471 | 3,0 | 1,90 | 2234 | 3,6 | 2,28 | 1840 | 55000 | | | | | | | |
| | 429 | 3,3 | 1,90 | 2035 | 4,0 | 2,28 | 1676 | 55000 | | | | | | | |
| | 391 | 3,6 | 1,90 | 1855 | 4,3 | 2,28 | 1527 | 55000 | | | | | | | |
| | 358 | 3,9 | 1,90 | 1698 | 4,7 | 2,28 | 1399 | 55000 | | | | | | | |
| | 328 | 4,3 | 1,90 | 1556 | 5,2 | 2,28 | 1281 | 55000 | | | | | | | |
| | 300 | 4,7 | 1,90 | 1423 | 5,7 | 2,28 | 1172 | 55000 | | | | | | | |
| | 883 | 1,0 | 1,22 | 6616 | 1,2 | 1,46 | 5413 | 55000 | iRAPM | 124 / 90 S 6a | 328 | 369 | | | |
| | 799 | 1,1 | 1,35 | 5983 | 1,4 | 1,62 | 4895 | 55000 | iRFPM | | | | | | |
| | 647 | 1,4 | 1,80 | 4850 | 1,7 | 2,16 | 3968 | 55000 | iRAFP | | | | | | |
| | 591 | 1,5 | 1,98 | 4425 | 1,9 | 2,38 | 3620 | 55000 | M | | | | | | |
| | 1173 | 1,2 | 0,80 | 5564 | 1,4 | 0,96 | 4582 | 33450 | iRAM | 103 iR 72 / 80 M 4b | 313 | 260 | | | |
| | 1046 | 1,3 | 0,88 | 4962 | 1,6 | 1,06 | 4086 | 33450 | iRFM | | | | | | |
| | 923 | 1,5 | 0,97 | 4378 | 1,8 | 1,16 | 3606 | 33450 | iRAFM | | | | | | |
| | 821 | 1,7 | 1,07 | 3895 | 2,1 | 1,28 | 3207 | 33450 | iRAM | 102 iR 73 / 80 M 4b | 313 | 222 | | | |
| | 1180 | 1,2 | 0,80 | 5598 | 1,4 | 0,96 | 4610 | 33450 | iRFM | | | | | | |
| | 1103 | 1,3 | 0,87 | 5232 | 1,5 | 1,04 | 4309 | 33450 | iRAFM | | | | | | |
| | 986 | 1,4 | 0,87 | 4677 | 1,7 | 1,04 | 3852 | 33450 | iRAM | 104 / 90 S 6a | 307 | 246 | | | |
| | 884 | 1,6 | 0,87 | 4193 | 1,9 | 1,04 | 3453 | 33450 | iRFM | | | | | | |
| | 612 | 1,5 | 0,91 | 4583 | 1,8 | 1,10 | 3750 | 34000 | iRAFM | | | | | | |
| | 548 | 1,6 | 1,04 | 4109 | 2,0 | 1,24 | 3362 | 34000 | iRAM | 104 / 80 M 4b | 307 | 244 | | | |
| | 495 | 1,8 | 1,13 | 3705 | 2,2 | 1,36 | 3031 | 34000 | iRFM | | | | | | |
| | 803 | 1,7 | 1,05 | 3865 | 2,1 | 1,26 | 3183 | 34000 | iRAFM | | | | | | |
| | 720 | 1,9 | 1,17 | 3465 | 2,4 | 1,41 | 2854 | 34000 | iRAM | 104 / 80 M 4b | 308 | 247 | | | |
| | 612 | 2,3 | 1,43 | 2946 | 2,8 | 1,72 | 2426 | 34000 | iRFM | | | | | | |
| | 548 | 2,6 | 1,61 | 2641 | 3,1 | 1,94 | 2175 | 34000 | iRAFM | | | | | | |
| | 495 | 2,8 | 1,76 | 2382 | 3,4 | 2,11 | 1961 | 34000 | iRAM | | | | 93 iR 62 / 80 M 4b | 295 | 163 |
| | 447 | 3,1 | 1,98 | 2151 | 3,8 | 2,38 | 1771 | 34000 | iRFM | | | | | | |
| | 406 | 3,5 | 2,13 | 1954 | 4,2 | 2,55 | 1609 | 34000 | iRAFM | | | | | | |
| | 371 | 3,8 | 2,35 | 1785 | 4,6 | 2,82 | 1470 | 34000 | iRAM | | | | 94 / 90 S 6a | 289 | 156 |
| | 340 | 4,1 | 2,57 | 1637 | 5,0 | 3,08 | 1348 | 34000 | iRFM | | | | | | |
| | 306 | 4,6 | 2,90 | 1476 | 5,5 | 3,48 | 1215 | 34000 | iRAFM | | | | | | |
| 648 | 2,2 | 1,03 | 3074 | 2,6 | 1,24 | 2531 | 24700 | iRAM | 94 / 80 M 4b | 289 | 154 | | | | |
| 538 | 2,6 | 1,13 | 2552 | 3,2 | 1,36 | 2102 | 24700 | iRFM | | | | | | | |
| 527 | 2,7 | 1,27 | 2500 | 3,2 | 1,52 | 2059 | 24700 | iRAFM | | | | | | | |
| 478 | 1,9 | 0,82 | 3584 | 2,3 | 0,99 | 2932 | 26000 | iRAM | 94 / 90 S 6a | 290 | 166 | | | | |
| 431 | 2,1 | 0,91 | 3231 | 2,6 | 1,10 | 2644 | 26000 | iRFM | | | | | | | |
| 380 | 2,4 | 1,04 | 2847 | 2,9 | 1,24 | 2330 | 26000 | iRAFM | | | | | | | |
| 338 | 2,7 | 1,16 | 2531 | 3,3 | 1,39 | 2070 | 26000 | iRAM | 94 / 80 M 4b | 291 | 174 | | | | |
| 478 | 2,9 | 1,28 | 2304 | 3,6 | 1,54 | 1897 | 26000 | iRFM | | | | | | | |
| 431 | 3,2 | 1,42 | 2077 | 3,9 | 1,71 | 1711 | 26000 | iRAFM | | | | | | | |
| 380 | 3,7 | 1,61 | 1830 | 4,5 | 1,94 | 1507 | 26000 | iRAM | 94 / 80 M 4b | 290 | 164 | | | | |
| 338 | 4,1 | 1,83 | 1627 | 5,0 | 2,20 | 1340 | 26000 | iRFM | | | | | | | |
| 302 | 4,6 | 1,98 | 1456 | 5,6 | 2,38 | 1199 | 26000 | iRAFM | | | | | | | |



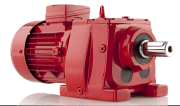
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | kg | | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|--------------|------------------------------|--------------|-----------------------|--------------|-----------------------|---------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | | | | |
| 0,75 1,1 | 269 | 5,2 | 2,27 | 1296 | 6,3 | 2,73 | 1067 | 26000 | iRAM iRFM iRAFM | 94 / 80 M 4b | 289 | 154 | | | | | | |
| | 237 | 5,9 | 2,57 | 1142 | 7,2 | 3,08 | 941 | 26000 | | | 290 | 164 | | | | | | |
| | 211 | 6,6 | 2,86 | 1015 | 8,1 | 3,43 | 836 | 26000 | | | 291 | 174 | | | | | | |
| | 189 | 7,4 | 3,20 | 908 | 9,0 | 3,84 | 748 | 26000 | iRAPM iRFPM iRAFP M | 93 / 90 S 6a | 286 | 137 | | | | | | |
| | 293 | 3,1 | 1,23 | 2232 | 3,7 | 1,48 | 1826 | 24700 | | | 287 | 147 | | | | | | |
| | 274 | 3,3 | 1,32 | 2082 | 4,0 | 1,59 | 1703 | 24700 | | | 288 | 157 | | | | | | |
| | 241 | 3,7 | 1,48 | 1829 | 4,6 | 1,78 | 1497 | 24700 | | | iRAPM iRFPM iRAFP M | 93 / 80 M 4b | 286 | 136 | | | | |
| | 214 | 4,2 | 1,73 | 1625 | 5,1 | 2,07 | 1329 | 24700 | 287 | 146 | | | | | | | | |
| | 293 | 4,8 | 1,95 | 1435 | 5,8 | 2,34 | 1182 | 24700 | 288 | 156 | | | | | | | | |
| | 274 | 5,1 | 2,09 | 1338 | 6,2 | 2,51 | 1102 | 24700 | iRAM iRFM iRAFM | 84 / 80 M 4b | | | 271 | 93 | | | | |
| | 241 | 5,8 | 2,35 | 1176 | 7,1 | 2,82 | 968 | 24700 | | | 272 | 98 | | | | | | |
| | 214 | 6,6 | 2,68 | 1044 | 8,0 | 3,21 | 860 | 24700 | | | 273 | 100 | | | | | | |
| | 191 | 7,3 | 2,99 | 936 | 8,9 | 3,59 | 771 | 24500 | | | iRAM iRFM iRAFM | 83 / 90 S 6a | 265 | 84 | | | | |
| | 173 | 8,1 | 3,31 | 844 | 9,8 | 3,97 | 695 | 24500 | | | | | 266 | 89 | | | | |
| | 428 | 3,3 | 0,77 | 2063 | 4,0 | 0,92 | 1699 | 18100 | | | | | 267 | 91 | | | | |
| | 382 | 3,7 | 0,83 | 1839 | 4,5 | 1,00 | 1515 | 18100 | | | | | iRAM iRFM iRAFM | 83 / 80 M 4b | 265 | 83 | | |
| | 343 | 4,1 | 0,93 | 1651 | 5,0 | 1,12 | 1360 | 18100 | | | | | | | 266 | 88 | | |
| | 310 | 4,5 | 1,03 | 1491 | 5,5 | 1,24 | 1228 | 18100 | | | | | | | 267 | 90 | | |
| | 275 | 5,1 | 1,17 | 1325 | 6,2 | 1,40 | 1091 | 18100 | | | | | | | iRAM iRFM iRAFM | 741 / 80 M 4b | 235 | 53 |
| | 273 | 5,1 | 1,13 | 1315 | 6,2 | 1,36 | 1083 | 18100 | | | | | | | | | 236 | 56 |
| | 243 | 5,8 | 1,23 | 1169 | 7,0 | 1,48 | 962 | 18100 | | | | | | | | | 237 | 59 |
| | 218 | 6,4 | 1,38 | 1049 | 7,8 | 1,66 | 864 | 18100 | iRAM iRFM iRAFM | 73 / 90 S 6a | | | | | | | 247 | 50 |
| | 196 | 7,1 | 1,53 | 945 | 8,7 | 1,84 | 779 | 18100 | | | | | | | | | 248 | 53 |
| | 174 | 8,0 | 1,73 | 840 | 9,7 | 2,07 | 692 | 18100 | | | | | | | | | 249 | 56 |
| | 168 | 8,3 | 1,87 | 811 | 10 | 2,25 | 668 | 18100 | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | | | 247 | 49 |
| | 221 | 4,1 | 0,88 | 1682 | 5,0 | 1,05 | 1376 | 16900 | | | | | | | | | 248 | 52 |
| | 209 | 4,3 | 0,99 | 1586 | 5,3 | 1,18 | 1298 | 16900 | | | | | | | | | 249 | 55 |
| | 187 | 4,8 | 1,04 | 1420 | 5,9 | 1,24 | 1162 | 16900 | | | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | 247 | 49 |
| | 168 | 5,3 | 1,13 | 1280 | 6,5 | 1,36 | 1048 | 16700 | | | | | | | | | 248 | 52 |
| | 251 | 5,6 | 1,21 | 1225 | 6,8 | 1,45 | 1009 | 17100 | | | | | | | | | 249 | 55 |
| | 221 | 6,3 | 1,36 | 1081 | 7,7 | 1,64 | 890 | 17050 | | | | | | | iRAM iRFM iRAFM | 73 / 80 M 4b | 247 | 49 |
| | 209 | 6,7 | 1,54 | 1020 | 8,2 | 1,85 | 840 | 17000 | | | | | | | | | 248 | 52 |
| | 187 | 7,5 | 1,61 | 913 | 9,1 | 1,94 | 752 | 17000 | | | | | | | | | 249 | 55 |
| | 168 | 8,3 | 1,76 | 823 | 10 | 2,11 | 678 | 17000 | iRAM iRFM iRAFM | 73 / 80 M 4b | | | | | | | 247 | 49 |
| | 153 | 9,2 | 1,91 | 746 | 11 | 2,29 | 615 | 16900 | | | | | | | | | 248 | 52 |
| | 139 | 10 | 2,13 | 681 | 12 | 2,55 | 560 | 16900 | | | | | | | | | 249 | 55 |
| | 127 | 11 | 2,35 | 623 | 13 | 2,82 | 513 | 16900 | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | | | 247 | 49 |
| | 117 | 12 | 2,57 | 573 | 15 | 3,08 | 472 | 16900 | | | | | | | | | 248 | 52 |
| | 103 | 14 | 2,86 | 504 | 17 | 3,43 | 415 | 16800 | | | | | | | | | 249 | 55 |
| | 91,85 | 15 | 3,23 | 449 | 19 | 3,87 | 370 | 16800 | | | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | 247 | 49 |
| 152 | 9,2 | 0,82 | 732 | 11 | 0,98 | 602 | 11200 | 248 | | | | | | | | | 52 | |
| 134 | 6,7 | 0,86 | 1016 | 8,2 | 1,04 | 831 | 11200 | 249 | | | | | | | | | 55 | |
| 103 | 8,7 | 1,08 | 783 | 11 | 1,30 | 641 | 11200 | iRAM iRFM iRAFM | | | | | | | 73 / 80 M 4b | 247 | 49 | |
| 91,36 | 9,9 | 1,37 | 695 | 12 | 1,64 | 569 | 11200 | | | | | | | | | 248 | 52 | |
| 154 | 9,1 | 1,13 | 755 | 11 | 1,36 | 622 | 11200 | | | | | | | | | 249 | 55 | |
| 134 | 10 | 1,30 | 653 | 13 | 1,56 | 538 | 11200 | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | | | | 247 | 49 | |
| 103 | 14 | 1,68 | 504 | 17 | 2,01 | 415 | 11200 | | | | | | | | | 248 | 52 | |
| 91,36 | 15 | 2,12 | 447 | 19 | 2,55 | 368 | 11200 | | | | | | | | | 249 | 55 | |
| 81,25 | 17 | 2,42 | 397 | 21 | 2,90 | 327 | 11200 | | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | | | 247 | 49 | |
| 72,76 | 19 | 2,57 | 356 | 23 | 3,08 | 293 | 11200 | | | | | | | | | 248 | 52 | |
| 65,52 | 21 | 2,64 | 320 | 26 | 3,17 | 264 | 11200 | | | | | | | | | 249 | 55 | |
| 59,42 | 24 | 2,86 | 291 | 29 | 3,43 | 239 | 11200 | | | | | | iRAM iRFM iRAFM | 73 / 80 M 4b | | 247 | 49 | |
| 52,47 | 27 | 3,30 | 257 | 32 | 3,96 | 211 | 11200 | | | | | | | | | 248 | 52 | |
| 46,36 | 30 | 3,70 | 227 | 37 | 4,44 | 187 | 11200 | | | | | | | | | 249 | 55 | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 0,75 1,1 | 117 | 12 | 0,91 | 570 | 15 | 1,09 | 470 | 9350 | iRAM iRFM iRAFM | 731 / 80 M 4b | 229 230 231 | 46 49 52 |
| | 101 | 14 | 1,06 | 493 | 17 | 1,27 | 406 | 9350 | | | | |
| | 88,93 | 16 | 1,17 | 435 | 19 | 1,40 | 358 | 9350 | | | | |
| | 78,43 | 18 | 1,33 | 383 | 22 | 1,60 | 316 | 9200 | | | | |
| | 69,75 | 20 | 1,50 | 341 | 24 | 1,80 | 281 | 9200 | | | | |
| | 62,46 | 22 | 1,70 | 305 | 27 | 2,04 | 251 | 9150 | | | | |
| | 55,54 | 25 | 1,92 | 272 | 31 | 2,31 | 224 | 9100 | | | | |
| | 49,74 | 28 | 2,12 | 243 | 34 | 2,55 | 200 | 9100 | | | | |
| | 44,79 | 31 | 2,37 | 219 | 38 | 2,84 | 180 | 9050 | | | | |
| | 39,89 | 35 | 3,23 | 195 | 43 | 3,87 | 161 | 9050 | | | | |
| | 35,22 | 40 | 3,52 | 172 | 48 | 4,22 | 142 | 9000 | | | | |
| | 31,62 | 44 | 3,40 | 157 | 54 | 4,08 | 129 | 9000 | | | | |
| | 28,06 | 50 | 3,80 | 139 | 61 | 4,56 | 115 | 9000 | iRAM iRFM iRAFM | 721 / 80 M 4b | 229 230 231 | 44 47 50 |
| | 96,27 | 15 | 0,86 | 471 | 18 | 1,04 | 388 | 7000 | iRAM iRFM iRAFM | 63 / 80 M 4b | 211 212 213 | 32 37 38 |
| | 87,81 | 16 | 0,94 | 429 | 19 | 1,12 | 354 | 7000 | | | | |
| | 83,37 | 17 | 1,01 | 408 | 20 | 1,21 | 336 | 7000 | | | | |
| | 70,96 | 20 | 1,27 | 347 | 24 | 1,53 | 286 | 7000 | | | | |
| | 61,03 | 23 | 1,37 | 298 | 28 | 1,64 | 246 | 7000 | | | | |
| | 51,65 | 27 | 1,87 | 253 | 33 | 2,24 | 208 | 7000 | | | | |
| | 46,79 | 30 | 2,03 | 229 | 36 | 2,44 | 188 | 7000 | | | | |
| | 42,55 | 33 | 2,27 | 208 | 40 | 2,72 | 171 | 7000 | | | | |
| | 35,74 | 39 | 2,71 | 175 | 48 | 3,26 | 144 | 7000 | | | | |
| | 29,85 | 47 | 3,23 | 146 | 57 | 3,87 | 120 | 7000 | | | | |
| | 25,16 | 56 | 3,81 | 123 | 68 | 4,58 | 101 | 7000 | | | | |
| | 96,27 | 15 | 0,86 | 471 | 18 | 1,04 | 388 | 7000 | | | | |
| | 87,81 | 16 | 0,94 | 429 | 19 | 1,12 | 354 | 7000 | | | | |
| | 83,37 | 17 | 1,01 | 408 | 20 | 1,21 | 336 | 7000 | | | | |
| | 70,96 | 20 | 1,27 | 347 | 24 | 1,53 | 286 | 7000 | | | | |
| | 61,03 | 23 | 1,37 | 298 | 28 | 1,64 | 246 | 7000 | | | | |
| | 51,65 | 27 | 1,87 | 253 | 33 | 2,24 | 208 | 7000 | | | | |
| | 46,79 | 30 | 2,03 | 229 | 36 | 2,44 | 188 | 7000 | | | | |
| | 42,55 | 33 | 2,27 | 208 | 40 | 2,72 | 171 | 7000 | | | | |
| | 35,74 | 39 | 2,71 | 175 | 48 | 3,26 | 144 | 7000 | | | | |
| | 29,85 | 47 | 3,23 | 146 | 57 | 3,87 | 120 | 7000 | | | | |
| | 25,16 | 56 | 3,81 | 123 | 68 | 4,58 | 101 | 7000 | | | | |
| | 43,99 | 32 | 0,93 | 215 | 39 | 1,11 | 177 | 3800 | | | | |
| | 39,10 | 36 | 1,02 | 191 | 43 | 1,23 | 157 | 3750 | | | | |
| | 34,93 | 40 | 1,14 | 171 | 49 | 1,36 | 141 | 3600 | | | | |
| | 31,34 | 45 | 1,23 | 153 | 54 | 1,48 | 126 | 3550 | | | | |
| | 28,21 | 50 | 1,38 | 138 | 60 | 1,66 | 114 | 3550 | | | | |
| | 25,46 | 55 | 1,47 | 124 | 67 | 1,77 | 103 | 3500 | | | | |
| | 23,03 | 61 | 1,60 | 113 | 74 | 1,92 | 93 | 3500 | | | | |
| 21,88 | 64 | 1,63 | 107 | 78 | 1,96 | 88 | 3400 | | | | | |
| 19,70 | 71 | 1,82 | 96 | 86 | 2,18 | 79 | 3350 | | | | | |
| 17,78 | 79 | 2,03 | 87 | 96 | 2,44 | 72 | 3300 | | | | | |
| 16,08 | 87 | 2,27 | 79 | 106 | 2,73 | 65 | 3300 | | | | | |
| 17,18 | 81 | 1,73 | 85 | 99 | 2,07 | 70 | 3300 | | | | | |
| 15,05 | 93 | 2,12 | 75 | 113 | 2,55 | 62 | 3200 | | | | | |
| 13,29 | 105 | 2,37 | 66 | 128 | 2,84 | 54 | 3150 | | | | | |
| 11,81 | 119 | 2,66 | 59 | 144 | 3,20 | 48 | 3150 | | | | | |
| 10,56 | 133 | 2,91 | 52 | 161 | 3,49 | 43 | 3100 | | | | | |
| 9,470 | 148 | 3,23 | 47 | 180 | 3,88 | 39 | 3100 | | | | | |
| 8,888 | 158 | 3,38 | 44 | 191 | 4,06 | 36 | 3050 | | | | | |
| 7,974 | 176 | 3,52 | 40 | 213 | 4,23 | 33 | 3050 | | | | | |
| 7,178 | 195 | 3,67 | 36 | 237 | 4,40 | 29 | 3000 | | | | | |
| 6,479 | 216 | 3,81 | 32 | 262 | 4,58 | 26 | 3000 | | | | | |
| 5,821 | 241 | 3,97 | 29 | 292 | 4,76 | 24 | 3000 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 53 / 80 M 4b | 181 182 183 | 22 24 25 |
| | | | | | | | | | iRAM iRFM iRAFM | 52 / 80 M 4b | 181 182 183 | 25 27 28 |



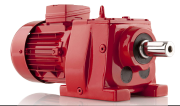
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 0,75 1,1 | 21,11 | 66 | 0,77 | 103 | 81 | 0,92 | 85 | 1470 | iRAM iRFM iRAFM | 43 / 80 M 4b | 175 176 177 | 18 19 20 |
| | 20,01 | 70 | 0,83 | 98 | 85 | 1,00 | 81 | 1420 | | | | |
| | 18,59 | 75 | 0,88 | 91 | 91 | 1,06 | 75 | 1390 | | | | |
| | 17,76 | 79 | 0,93 | 87 | 96 | 1,11 | 72 | 1370 | | | | |
| | 16,45 | 85 | 0,99 | 80 | 103 | 1,19 | 66 | 1320 | | | | |
| | 15,81 | 89 | 1,02 | 77 | 108 | 1,23 | 64 | 1290 | | | | |
| | 14,60 | 96 | 1,14 | 71 | 116 | 1,36 | 59 | 1270 | | | | |
| | 14,09 | 99 | 1,20 | 69 | 121 | 1,44 | 57 | 1260 | | | | |
| | 13,00 | 108 | 1,26 | 64 | 131 | 1,52 | 52 | 1230 | | | | |
| | 11,58 | 121 | 1,42 | 57 | 147 | 1,71 | 47 | 1200 | | | | |
| | 11,24 | 125 | 0,86 | 56 | 151 | 1,04 | 46 | 1320 | | | | |
| | 9,845 | 142 | 0,96 | 49 | 173 | 1,15 | 40 | 1270 | | | | |
| | 8,672 | 161 | 1,09 | 43 | 196 | 1,31 | 35 | 1230 | | | | |
| | 7,673 | 182 | 1,26 | 38 | 222 | 1,52 | 31 | 1180 | | | | |
| | 6,872 | 204 | 1,82 | 34 | 247 | 2,19 | 28 | 1120 | | | | |
| | 6,080 | 230 | 2,05 | 30 | 280 | 2,46 | 25 | 1070 | | | | |
| | 5,538 | 253 | 2,19 | 27 | 307 | 2,63 | 23 | 1030 | | | | |
| | 5,398 | 259 | 2,27 | 27 | 315 | 2,73 | 22 | 1020 | | | | |
| | 4,900 | 286 | 2,42 | 24 | 347 | 2,90 | 20 | 990 | | | | |
| | 4,803 | 291 | 2,56 | 24 | 354 | 3,07 | 20 | 910 | | | | |
| 4,350 | 322 | 2,70 | 22 | 391 | 3,24 | 18 | 880 | | | | | |
| 4,280 | 327 | 2,85 | 21 | 397 | 3,42 | 17 | 850 | | | | | |
| 3,870 | 362 | 3,07 | 19 | 439 | 3,69 | 16 | 830 | | | | | |
| 3,449 | 406 | 3,44 | 17 | 493 | 4,13 | 14 | 800 | | | | | |
| 1,1 1,5 | 2979 | 0,47 | 0,87 | 20724 | 0,57 | 1,04 | 17067 | 110000 | iRAPM iRFPM iRAFP M | 153 iR 92 / 90 S 4a | 376 377 378 | 1068 1118 1138 |
| | 2597 | 0,54 | 0,99 | 18065 | 0,65 | 1,19 | 14877 | 110000 | | | | |
| | 2175 | 0,64 | 1,20 | 15135 | 0,78 | 1,44 | 12464 | 110000 | | | | |
| | 1932 | 0,72 | 1,35 | 13441 | 0,88 | 1,62 | 11069 | 110000 | | | | |
| | 1754 | 0,80 | 1,45 | 12200 | 0,97 | 1,74 | 10047 | 110000 | | | | |
| | 1589 | 0,88 | 1,60 | 11058 | 1,1 | 1,92 | 9107 | 110000 | | | | |
| | 1381 | 1,0 | 1,85 | 9609 | 1,2 | 2,22 | 7913 | 110000 | | | | |
| | 1217 | 1,2 | 2,10 | 8464 | 1,4 | 2,52 | 6970 | 110000 | | | | |
| | 1035 | 1,4 | 2,50 | 7202 | 1,6 | 3,00 | 5931 | 110000 | | | | |
| | 2975 | 0,47 | 0,86 | 20696 | 0,57 | 1,03 | 17044 | 110000 | | | | |
| | 2710 | 0,52 | 0,95 | 18854 | 0,63 | 1,14 | 15527 | 110000 | | | | |
| | 2479 | 0,56 | 1,05 | 17250 | 0,69 | 1,26 | 14206 | 110000 | | | | |
| | 1937 | 0,72 | 1,35 | 13479 | 0,88 | 1,62 | 11100 | 110000 | | | | |
| | 1847 | 0,76 | 1,30 | 12853 | 0,92 | 1,56 | 10585 | 110000 | | | | |
| | 1683 | 0,83 | 1,45 | 11710 | 1,0 | 1,74 | 9643 | 110000 | | | | |
| | 1540 | 0,91 | 1,55 | 10713 | 1,1 | 1,86 | 8823 | 110000 | | | | |
| | 1414 | 0,99 | 1,70 | 9838 | 1,2 | 2,04 | 8102 | 110000 | | | | |
| | 1203 | 1,2 | 2,00 | 8371 | 1,4 | 2,40 | 6894 | 110000 | | | | |
| | 2073 | 0,68 | 0,86 | 14206 | 0,82 | 1,04 | 11699 | 60000 | | | | |
| | 2184 | 0,64 | 0,84 | 15195 | 0,78 | 1,01 | 12514 | 60000 | | | | |
| 1979 | 0,71 | 0,93 | 13769 | 0,86 | 1,12 | 11339 | 60000 | | | | | |
| 1795 | 0,78 | 1,00 | 12489 | 0,95 | 1,20 | 10285 | 60000 | | | | | |
| 1398 | 1,0 | 1,30 | 9726 | 1,2 | 1,56 | 8010 | 60000 | | | | | |
| 1247 | 1,1 | 1,45 | 8676 | 1,4 | 1,74 | 7145 | 60000 | | | | | |
| 1120 | 1,3 | 1,60 | 7792 | 1,5 | 1,92 | 6417 | 60000 | | | | | |
| 983 | 1,4 | 1,85 | 6839 | 1,7 | 2,22 | 5632 | 60000 | | | | | |
| 546 | 1,6 | 2,23 | 5994 | 2,0 | 2,68 | 4904 | 60000 | | | | | |
| 488 | 1,8 | 2,50 | 5357 | 2,3 | 3,00 | 4383 | 60000 | | | | | |
| 438 | 2,1 | 2,80 | 4812 | 2,5 | 3,36 | 3937 | 60000 | | | | | |
| 384 | 2,3 | 3,10 | 4222 | 2,9 | 3,72 | 3455 | 60000 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 143 iR 73 / 90 S 4a | 349 350 351 | 524 538 564 |
| | | | | | | | | | iRAM iRFM iRAFM | 143 iR 72 / 90 S 4a | 349 350 351 | 522 536 562 |
| | | | | | | | | | iRAPM iRFPM iRAFP M | 144 / 90 L 6b | 346 347 348 | 546 560 586 |



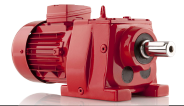
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|----------------------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 1,1 1,5 | 1657 | 0,84 | 0,84 | 11528 | 1,0 | 1,01 | 9494 | 55000 | íRAM íRFM íRAFM | 123 íR 72 / 90 S 4a | 331 | 347 |
| | 1511 | 0,93 | 0,93 | 10513 | 1,1 | 1,12 | 8658 | 55000 | | | 332 | 349 |
| | 1357 | 1,0 | 1,04 | 9441 | 1,3 | 1,25 | 7775 | 55000 | | | 333 | 377 |
| | 1227 | 1,1 | 1,14 | 8537 | 1,4 | 1,37 | 7030 | 55000 | | | | |
| | 1025 | 1,4 | 1,38 | 7131 | 1,7 | 1,66 | 5873 | 55000 | íRAM íRFM íRAFM | 122 íR 73 / 90 S 4a | 331 | 320 |
| | 902 | 1,6 | 1,55 | 6276 | 1,9 | 1,86 | 5168 | 55000 | | | 332 | 322 |
| | 1535 | 0,91 | 0,80 | 10680 | 1,1 | 0,95 | 8795 | 55000 | | | 333 | 350 |
| | 1362 | 1,0 | 0,80 | 9476 | 1,2 | 0,95 | 7804 | 55000 | | | | |
| | 1265 | 1,1 | 1,04 | 8801 | 1,3 | 1,25 | 7248 | 55000 | íRAM íRFM íRAFM | 124 / 90 L 6b | 328 | 371 |
| | 1050 | 1,3 | 1,29 | 7305 | 1,6 | 1,55 | 6016 | 55000 | | | 329 | 373 |
| | 935 | 1,5 | 1,29 | 6505 | 1,8 | 1,55 | 5357 | 55000 | | | 330 | 401 |
| | 883 | 1,0 | 0,83 | 9704 | 1,2 | 1,00 | 7939 | 55000 | | | | |
| | 799 | 1,1 | 0,92 | 8775 | 1,4 | 1,10 | 7179 | 55000 | íRAM íRFM íRAFM M | 124 / 90 S 4a | 328 | 369 |
| | 647 | 1,4 | 1,23 | 7113 | 1,7 | 1,47 | 5820 | 55000 | | | 329 | 371 |
| | 591 | 1,5 | 1,35 | 6490 | 1,9 | 1,62 | 5310 | 55000 | | | 330 | 399 |
| | 883 | 1,6 | 1,30 | 6238 | 1,9 | 1,56 | 5137 | 55000 | | | | |
| | 799 | 1,8 | 1,44 | 5641 | 2,1 | 1,73 | 4645 | 55000 | íRAM íRFM íRAFM M | 104 / 90 L 6b | 307 | 248 |
| | 647 | 2,2 | 1,91 | 4573 | 2,6 | 2,29 | 3766 | 55000 | | | 308 | 251 |
| | 591 | 2,4 | 2,10 | 4172 | 2,9 | 2,52 | 3436 | 55000 | | | 309 | 273 |
| | 530 | 2,6 | 2,30 | 3745 | 3,2 | 2,76 | 3084 | 55000 | | | | |
| | 479 | 2,9 | 2,60 | 3387 | 3,5 | 3,12 | 2789 | 55000 | íRAM íRFM íRAFM | 104 / 90 S 4a | 307 | 246 |
| | 400 | 3,5 | 3,10 | 2829 | 4,2 | 3,72 | 2330 | 55000 | | | 308 | 249 |
| | 352 | 4,0 | 3,50 | 2489 | 4,8 | 4,20 | 2050 | 55000 | | | 309 | 271 |
| | 495 | 2,8 | 1,20 | 3493 | 3,4 | 1,44 | 2877 | 34000 | | | | |
| | 720 | 1,9 | 0,80 | 5082 | 2,4 | 0,96 | 4186 | 34000 | íRAM íRFM íRAFM | 94 / 90 L 6b | 289 | 158 |
| | 612 | 2,3 | 0,98 | 4321 | 2,8 | 1,17 | 3558 | 34000 | | | 290 | 168 |
| | 548 | 2,6 | 1,10 | 3874 | 3,1 | 1,32 | 3190 | 34000 | | | 291 | 178 |
| | 495 | 2,8 | 1,20 | 3493 | 3,4 | 1,44 | 2877 | 34000 | | | | |
| | 447 | 3,1 | 1,35 | 3155 | 3,8 | 1,62 | 2598 | 34000 | íRAM íRFM íRAFM | 94 / 90 S 4a | 289 | 156 |
| | 406 | 3,5 | 1,45 | 2866 | 4,2 | 1,74 | 2360 | 34000 | | | 290 | 166 |
| | 371 | 3,8 | 1,60 | 2618 | 4,6 | 1,92 | 2156 | 34000 | | | 291 | 176 |
| | 340 | 4,1 | 1,75 | 2401 | 5,0 | 2,10 | 1978 | 34000 | | | | |
| | 306 | 4,6 | 1,98 | 2165 | 5,5 | 2,37 | 1783 | 34000 | íRAM íRFM íRAFM | 93 / 90 L 6b | 286 | 139 |
| | 281 | 5,0 | 2,12 | 1986 | 6,0 | 2,54 | 1635 | 34000 | | | 287 | 149 |
| | 338 | 2,7 | 0,79 | 3711 | 3,3 | 0,95 | 3037 | 26000 | | | 288 | 159 |
| | 478 | 2,9 | 0,88 | 3379 | 3,6 | 1,05 | 2783 | 26000 | | | | |
| | 431 | 3,2 | 0,97 | 3046 | 3,9 | 1,16 | 2509 | 26000 | íRAM íRFM íRAFM | 94 / 90 S 4a | 289 | 156 |
| | 380 | 3,7 | 1,10 | 2685 | 4,5 | 1,32 | 2211 | 26000 | | | 290 | 166 |
| | 338 | 4,1 | 1,25 | 2386 | 5,0 | 1,50 | 1965 | 26000 | | | 291 | 176 |
| | 302 | 4,6 | 1,35 | 2135 | 5,6 | 1,62 | 1758 | 26000 | | | | |
| 269 | 5,2 | 1,55 | 1901 | 6,3 | 1,86 | 1566 | 26000 | íRAM íRFM íRAFM | 93 / 90 S 4a | 286 | 139 | |
| 237 | 5,9 | 1,75 | 1675 | 7,2 | 2,10 | 1380 | 26000 | | | 287 | 149 | |
| 211 | 6,6 | 1,95 | 1489 | 8,1 | 2,34 | 1226 | 26000 | | | 288 | 159 | |
| 189 | 7,4 | 2,18 | 1332 | 9,0 | 2,62 | 1097 | 26000 | | | | | |
| 170 | 8,2 | 2,46 | 1199 | 10 | 2,95 | 987 | 26000 | íRAM íRFM íRAFM M | 93 / 90 L 6b | 286 | 138 | |
| 153 | 9,1 | 2,66 | 1084 | 11 | 3,19 | 892 | 26000 | | | 287 | 148 | |
| 293 | 3,1 | 0,84 | 3274 | 3,7 | 1,01 | 2678 | 23500 | | | 288 | 158 | |
| 274 | 3,3 | 0,90 | 3053 | 4,0 | 1,08 | 2498 | 23500 | | | | | |
| 241 | 3,7 | 1,01 | 2683 | 4,6 | 1,21 | 2195 | 23000 | íRAM íRFM íRAFM M | 93 / 90 S 4a | 286 | 138 | |
| 214 | 4,2 | 1,18 | 2383 | 5,1 | 1,41 | 1950 | 23000 | | | 287 | 148 | |
| 293 | 4,8 | 1,33 | 2104 | 5,8 | 1,60 | 1733 | 23500 | | | 288 | 158 | |
| 274 | 5,1 | 1,43 | 1963 | 6,2 | 1,71 | 1617 | 23500 | | | | | |
| 241 | 5,8 | 1,60 | 1725 | 7,1 | 1,92 | 1420 | 23500 | íRAM íRFM íRAFM M | 93 / 90 S 4a | 286 | 138 | |
| 214 | 6,6 | 1,83 | 1532 | 8,0 | 2,19 | 1261 | 23000 | | | 287 | 148 | |



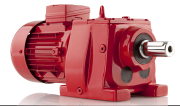
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|-------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 1,1 1,5 | 191 | 7,3 | 2,04 | 1372 | 8,9 | 2,45 | 1130 | 23000 | iRAPM iRFPM iRAFP M | 93 / 90 S 4a | 286 287 288 | 138 148 158 |
| | 173 | 8,1 | 2,26 | 1239 | 9,8 | 2,71 | 1020 | 23000 | | | | |
| | 157 | 8,9 | 2,49 | 1125 | 11 | 2,99 | 926 | 23000 | | | | |
| | 131 | 11 | 2,97 | 941 | 13 | 3,57 | 775 | 22900 | | | | |
| | 121 | 12 | 3,20 | 865 | 14 | 3,84 | 713 | 22900 | | | | |
| | 110 | 13 | 3,54 | 789 | 15 | 4,25 | 650 | 22900 | iRAM iRFM iRAFM | 84 / 90 S 4a | 271 272 273 | 95 100 102 |
| | 273 | 5,1 | 0,77 | 1929 | 6,2 | 0,93 | 1589 | 18100 | | | | |
| | 243 | 5,8 | 0,84 | 1714 | 7,0 | 1,01 | 1412 | 18100 | | | | |
| | 218 | 6,4 | 0,94 | 1538 | 7,8 | 1,13 | 1267 | 18100 | | | | |
| | 196 | 7,1 | 1,04 | 1387 | 8,7 | 1,25 | 1142 | 18100 | | | | |
| | 174 | 8,0 | 1,18 | 1233 | 9,7 | 1,41 | 1015 | 18100 | iRAM iRFM iRAFM | 83 / 90 S 4a | 265 266 267 | 85 90 92 |
| | 168 | 8,3 | 1,28 | 1190 | 10 | 1,53 | 980 | 18100 | | | | |
| | 221 | 6,3 | 0,93 | 1586 | 7,7 | 1,12 | 1306 | 16900 | | | | |
| | 209 | 6,7 | 1,05 | 1496 | 8,2 | 1,26 | 1232 | 16900 | | | | |
| | 187 | 7,5 | 1,10 | 1339 | 9,1 | 1,32 | 1103 | 16900 | | | | |
| | 168 | 8,3 | 1,20 | 1207 | 10 | 1,44 | 994 | 16750 | | | | |
| | 153 | 9,2 | 1,30 | 1095 | 11 | 1,56 | 902 | 16750 | | | | |
| | 139 | 10 | 1,45 | 998 | 12 | 1,74 | 822 | 16750 | | | | |
| | 127 | 11 | 1,60 | 914 | 13 | 1,92 | 753 | 16750 | | | | |
| | 117 | 12 | 1,75 | 840 | 15 | 2,10 | 692 | 16600 | | | | |
| | 103 | 14 | 1,95 | 739 | 17 | 2,34 | 608 | 16600 | | | | |
| | 91,85 | 15 | 2,20 | 659 | 19 | 2,64 | 542 | 16600 | | | | |
| | 82,47 | 17 | 2,50 | 591 | 21 | 3,00 | 487 | 16500 | | | | |
| | 74,47 | 19 | 2,80 | 534 | 23 | 3,36 | 440 | 16500 | | | | |
| | 66,18 | 21 | 3,10 | 475 | 26 | 3,72 | 391 | 16500 | | | | |
| | 59,39 | 24 | 3,48 | 426 | 29 | 4,17 | 351 | 16500 | | | | |
| | 53,54 | 26 | 3,75 | 384 | 32 | 4,50 | 316 | 16400 | | | | |
| | 47,59 | 29 | 4,30 | 341 | 36 | 5,15 | 281 | 16400 | | | | |
| | 134 | 10 | 0,89 | 958 | 13 | 1,06 | 789 | 10500 | | | | |
| | 103 | 14 | 1,14 | 739 | 17 | 1,37 | 608 | 10500 | | | | |
| | 91,36 | 15 | 1,45 | 655 | 19 | 1,74 | 540 | 10500 | | | | |
| | 81,25 | 17 | 1,65 | 583 | 21 | 1,98 | 480 | 10500 | | | | |
| | 72,76 | 19 | 1,75 | 522 | 23 | 2,10 | 430 | 10500 | | | | |
| | 65,52 | 21 | 1,80 | 470 | 26 | 2,16 | 387 | 10500 | | | | |
| | 59,42 | 24 | 1,95 | 426 | 29 | 2,34 | 351 | 10500 | | | | |
| | 52,47 | 27 | 2,25 | 376 | 32 | 2,70 | 310 | 10500 | | | | |
| | 46,36 | 30 | 2,52 | 332 | 37 | 3,03 | 274 | 10500 | | | | |
| | 88,93 | 16 | 0,80 | 638 | 19 | 0,95 | 525 | 9250 | | | | |
| | 78,43 | 18 | 0,91 | 562 | 22 | 1,09 | 463 | 9100 | | | | |
| | 69,75 | 20 | 1,02 | 500 | 24 | 1,23 | 412 | 9100 | | | | |
| | 62,46 | 22 | 1,16 | 448 | 27 | 1,39 | 369 | 9050 | | | | |
| | 55,54 | 25 | 1,31 | 398 | 31 | 1,57 | 328 | 9000 | | | | |
| 49,74 | 28 | 1,45 | 357 | 34 | 1,74 | 294 | 9000 | | | | | |
| 44,79 | 31 | 1,61 | 321 | 38 | 1,94 | 265 | 8950 | | | | | |
| 39,89 | 35 | 2,20 | 286 | 43 | 2,64 | 236 | 8950 | | | | | |
| 35,22 | 40 | 2,40 | 253 | 48 | 2,88 | 208 | 8900 | | | | | |
| 31,31 | 45 | 2,60 | 225 | 54 | 3,12 | 185 | 8900 | | | | | |
| 27,97 | 50 | 2,86 | 201 | 61 | 3,44 | 165 | 8800 | | | | | |
| 25,10 | 56 | 3,21 | 180 | 68 | 3,85 | 148 | 8800 | | | | | |
| 22,59 | 62 | 3,48 | 162 | 75 | 4,17 | 133 | 8700 | | | | | |
| 31,62 | 44 | 2,32 | 230 | 54 | 2,78 | 190 | 8900 | | | | | |
| 28,06 | 50 | 2,59 | 204 | 61 | 3,11 | 168 | 8800 | | | | | |
| 24,25 | 58 | 3,00 | 177 | 70 | 3,60 | 145 | 8800 | | | | | |
| | | | | | | | | iRAM iRFM iRAFM | 721 / C80 M 4 | 229 230 231 | 43 46 49 | |
| | | | | | | | | iRAM iRFM iRAFM | 721 / 90 S 4a | 229 230 231 | 46 49 52 | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 1,1 1,5 | 70,96 | 20 | 0,87 | 509 | 24 | 1,04 | 419 | 6500 | iRAM iRFM iRAFM | 63 / 90 S 4a | 211 212 213 | 34 39 40 |
| | 61,03 | 23 | 0,93 | 438 | 28 | 1,12 | 360 | 6500 | | | | |
| | 51,65 | 27 | 1,27 | 370 | 33 | 1,53 | 305 | 6500 | | | | |
| | 46,79 | 30 | 1,39 | 336 | 36 | 1,66 | 276 | 6500 | | | | |
| | 42,55 | 33 | 1,55 | 305 | 40 | 1,86 | 251 | 6500 | | | | |
| | 35,74 | 39 | 1,85 | 256 | 48 | 2,22 | 211 | 6500 | | | | |
| | 29,85 | 47 | 2,20 | 214 | 57 | 2,64 | 176 | 6500 | | | | |
| | 25,16 | 56 | 2,60 | 180 | 68 | 3,12 | 149 | 6500 | | | | |
| | 21,50 | 65 | 3,05 | 154 | 79 | 3,66 | 127 | 6500 | | | | |
| | 20,53 | 68 | 3,20 | 147 | 83 | 3,84 | 121 | 6500 | | | | |
| | 18,18 | 77 | 3,61 | 130 | 94 | 4,34 | 107 | 6500 | | | | |
| | 16,67 | 84 | 3,41 | 121 | 102 | 4,09 | 100 | 6300 | | | | |
| | 15,13 | 93 | 3,75 | 110 | 112 | 4,50 | 91 | 6300 | | | | |
| | 13,48 | 104 | 4,16 | 98 | 126 | 4,99 | 81 | 6300 | | | | |
| | 12,21 | 115 | 4,36 | 89 | 139 | 5,24 | 73 | 6300 | | | | |
| | 70,96 | 20 | 0,87 | 509 | 24 | 1,04 | 419 | 6500 | iRAM iRFM iRAFM | 631 / 90 S 4a | 193 194 195 | 37 42 43 |
| | 61,03 | 23 | 0,93 | 438 | 28 | 1,12 | 360 | 6500 | | | | |
| | 51,65 | 27 | 1,27 | 370 | 33 | 1,53 | 305 | 6500 | | | | |
| | 46,79 | 30 | 1,39 | 336 | 36 | 1,66 | 276 | 6500 | | | | |
| | 42,55 | 33 | 1,55 | 305 | 40 | 1,86 | 251 | 6500 | | | | |
| | 35,74 | 39 | 1,85 | 256 | 48 | 2,22 | 211 | 6500 | | | | |
| | 29,85 | 47 | 2,20 | 214 | 57 | 2,64 | 176 | 6500 | | | | |
| | 25,16 | 56 | 2,60 | 180 | 68 | 3,12 | 149 | 6500 | | | | |
| | 21,50 | 65 | 3,05 | 154 | 79 | 3,66 | 127 | 6500 | | | | |
| | 20,53 | 68 | 3,20 | 147 | 83 | 3,84 | 121 | 6500 | | | | |
| | 18,18 | 77 | 3,61 | 130 | 94 | 4,34 | 107 | 6500 | | | | |
| | 18,18 | 77 | 3,61 | 130 | 94 | 4,34 | 109 | 6500 | iRAM iRFM iRAFM | 621 / 90 S 4a | 193 194 195 | 32 37 38 |
| | 16,67 | 84 | 3,41 | 121 | 102 | 4,09 | 100 | 6300 | | | | |
| | 15,13 | 93 | 3,75 | 110 | 112 | 4,50 | 91 | 6300 | | | | |
| | 13,48 | 104 | 4,16 | 98 | 126 | 4,99 | 81 | 6300 | iRAM iRFM iRAFM | 53 / 90 S 4a | 181 182 183 | 24 26 27 |
| | 31,34 | 45 | 0,84 | 225 | 54 | 1,01 | 185 | 3400 | | | | |
| | 28,21 | 50 | 0,94 | 202 | 60 | 1,13 | 167 | 3300 | | | | |
| | 25,46 | 55 | 1,00 | 183 | 67 | 1,20 | 150 | 3300 | | | | |
| | 23,03 | 61 | 1,09 | 165 | 74 | 1,31 | 136 | 3250 | | | | |
| | 21,88 | 64 | 1,11 | 157 | 78 | 1,34 | 129 | 3250 | | | | |
| | 19,70 | 71 | 1,24 | 141 | 86 | 1,49 | 116 | 3200 | | | | |
| | 17,78 | 79 | 1,39 | 127 | 96 | 1,66 | 105 | 3100 | | | | |
| | 16,08 | 87 | 1,55 | 115 | 106 | 1,86 | 95 | 3050 | | | | |
| | 17,18 | 81 | 1,18 | 125 | 99 | 1,41 | 103 | 3050 | | | | |
| | 15,05 | 93 | 1,45 | 110 | 113 | 1,74 | 90 | 3050 | | | | |
| | 13,29 | 105 | 1,61 | 97 | 128 | 1,94 | 80 | 3000 | | | | |
| | 11,81 | 119 | 1,82 | 86 | 144 | 2,18 | 71 | 3000 | iRAM iRFM iRAFM | 52 / 90 S 4a | 181 182 183 | 27 29 30 |
| 10,56 | 133 | 1,98 | 77 | 161 | 2,38 | 63 | 3000 | | | | | |
| 9,470 | 148 | 2,20 | 69 | 180 | 2,64 | 57 | 2900 | | | | | |
| 8,888 | 158 | 2,30 | 65 | 191 | 2,76 | 53 | 2800 | | | | | |
| 7,974 | 176 | 2,40 | 58 | 213 | 2,88 | 48 | 2650 | | | | | |
| 7,178 | 195 | 2,50 | 52 | 237 | 3,00 | 43 | 2600 | | | | | |
| 6,479 | 216 | 2,60 | 47 | 262 | 3,12 | 39 | 2600 | | | | | |
| 5,821 | 241 | 2,70 | 42 | 292 | 3,25 | 35 | 2550 | | | | | |
| 5,254 | 266 | 2,80 | 38 | 324 | 3,36 | 31 | 2500 | | | | | |
| 5,032 | 278 | 2,90 | 37 | 338 | 3,48 | 30 | 2500 | | | | | |
| 4,515 | 310 | 3,20 | 33 | 377 | 3,83 | 27 | 2450 | | | | | |
| 4,064 | 344 | 3,40 | 30 | 418 | 4,08 | 24 | 2400 | | | | | |
| 3,668 | 382 | 3,60 | 27 | 463 | 4,32 | 22 | 2400 | | | | | |



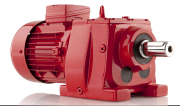
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-------------------|----------------------|-----------------------|---------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg | | | | |
| 1,1 1,5 | 14,60 | 96 | 0,77 | 105 | 116 | 0,93 | 86 | 1200 | iRAM iRFM iRAFM | 43 / 90 S 4a | 175 176 177 | 20 21 22 | | | | |
| | 14,09 | 99 | 0,82 | 101 | 121 | 0,98 | 83 | 1180 | | | | | | | | |
| | 13,00 | 108 | 0,86 | 93 | 131 | 1,03 | 77 | 1150 | | | | | | | | |
| | 11,58 | 121 | 0,97 | 83 | 147 | 1,17 | 68 | 1100 | iRAM iRFM iRAFM | 42 / 90 S 4a | 175 176 177 | 19 20 21 | | | | |
| | 7,673 | 182 | 0,86 | 56 | 222 | 1,03 | 46 | 1050 | | | | | | | | |
| | 6,872 | 204 | 1,24 | 50 | 247 | 1,49 | 41 | 1030 | | | | | | | | |
| | 6,080 | 230 | 1,40 | 44 | 280 | 1,68 | 36 | 1000 | | | | | | | | |
| | 5,538 | 253 | 1,49 | 40 | 307 | 1,79 | 33 | 1000 | | | | | | | | |
| | 5,398 | 259 | 1,55 | 39 | 315 | 1,86 | 32 | 960 | | | | | | | | |
| | 4,900 | 286 | 1,65 | 36 | 347 | 1,98 | 29 | 930 | | | | | | | | |
| | 4,803 | 291 | 1,75 | 35 | 354 | 2,09 | 29 | 890 | | | | | | | | |
| | 4,350 | 322 | 1,84 | 32 | 391 | 2,21 | 26 | 860 | | | | | | | | |
| | 4,280 | 327 | 1,94 | 31 | 397 | 2,33 | 26 | 830 | | | | | | | | |
| | 3,870 | 362 | 2,09 | 28 | 439 | 2,51 | 23 | 800 | | | | | | | | |
| 3,449 | 406 | 2,35 | 25 | 493 | 2,81 | 21 | 770 | | | | | | | | | |
| 1,5 2,2 | 2175 | 0,64 | 0,88 | 20639 | 0,78 | 1,06 | 16997 | 110000 | iRAPM iRFPM iRAFP M | 153 iR 92 / 90 L 4a | 376 377 378 | 1071 1121 1141 | | | | |
| | 1932 | 0,72 | 0,99 | 18329 | 0,88 | 1,19 | 15094 | 110000 | | | | | | | | |
| | 1754 | 0,80 | 1,06 | 16636 | 0,97 | 1,27 | 13700 | 110000 | | | | | | | | |
| | 1589 | 0,88 | 1,17 | 15079 | 1,1 | 1,40 | 12418 | 110000 | | | | | | | | |
| | 1381 | 1,0 | 1,36 | 13103 | 1,2 | 1,63 | 10791 | 110000 | | | | | | | | |
| | 1217 | 1,2 | 1,54 | 11542 | 1,4 | 1,85 | 9505 | 110000 | | | | | | | | |
| | 1035 | 1,4 | 1,80 | 9821 | 1,6 | 2,16 | 8088 | 110000 | | | | | | | | |
| | 792 | 1,8 | 2,20 | 7519 | 2,1 | 2,64 | 6192 | 110000 | | | | | | | | |
| | 1937 | 0,72 | 0,99 | 18380 | 0,88 | 1,19 | 15136 | 110000 | iRAPM iRFPM iRAFP M | 152 iR 93 / 90 L 4a | 376 377 378 | 1001 1051 1051 | | | | |
| | 1847 | 0,76 | 0,95 | 17527 | 0,92 | 1,14 | 14434 | 110000 | | | | | | | | |
| | 1683 | 0,83 | 1,06 | 15968 | 1,0 | 1,27 | 13150 | 110000 | | | | | | | | |
| | 1540 | 0,91 | 1,14 | 14609 | 1,1 | 1,37 | 12031 | 110000 | | | | | | | | |
| | 1414 | 0,99 | 1,25 | 13415 | 1,2 | 1,50 | 11048 | 110000 | | | | | | | | |
| | 1203 | 1,2 | 1,47 | 11415 | 1,4 | 1,76 | 9400 | 110000 | | | | | | | | |
| | 1033 | 1,4 | 1,72 | 9804 | 1,6 | 2,06 | 8074 | 110000 | | | | | | | | |
| | 1398 | 1,0 | 0,95 | 13263 | 1,2 | 1,14 | 10923 | 60000 | | | | | iRAM iRFM iRAFM | 143 iR 72 / 90 L 4a | 349 350 351 | 525 539 565 |
| | 1247 | 1,1 | 1,06 | 11831 | 1,4 | 1,28 | 9743 | 60000 | | | | | | | | |
| | 1120 | 1,3 | 1,17 | 10626 | 1,5 | 1,41 | 8751 | 60000 | | | | | | | | |
| | 983 | 1,4 | 1,36 | 9326 | 1,7 | 1,63 | 7680 | 60000 | | | | | | | | |
| | 877 | 1,6 | 1,50 | 8320 | 1,9 | 1,80 | 6852 | 60000 | | | | | | | | |
| | 787 | 1,8 | 1,65 | 7467 | 2,2 | 1,98 | 6149 | 60000 | | | | | | | | |
| | 750 | 1,9 | 1,75 | 7116 | 2,3 | 2,10 | 5860 | 60000 | | | | | | | | |
| | 673 | 2,1 | 1,95 | 6385 | 2,5 | 2,34 | 5258 | 60000 | | | | | | | | |
| | 607 | 2,3 | 2,20 | 5759 | 2,8 | 2,64 | 4743 | 60000 | | | | | | | | |
| | 549 | 2,6 | 2,42 | 5209 | 3,1 | 2,90 | 4289 | 60000 | | | | | | | | |
| | 498 | 2,8 | 2,64 | 4725 | 3,4 | 3,17 | 3891 | 60000 | | | | | | | | |
| | 453 | 3,1 | 2,90 | 4298 | 3,8 | 3,48 | 3539 | 60000 | | | | | | | | |
| | 537 | 2,6 | 2,49 | 5095 | 3,2 | 2,99 | 4196 | 60000 | iRAM iRFM iRAFM | 143 iR 82 / 90 L 4a | 355 356 357 | 556 570 596 | | | | |
| | 487 | 2,9 | 2,71 | 4620 | 3,5 | 3,26 | 3805 | 60000 | | | | | | | | |
| | 437 | 3,2 | 3,01 | 4146 | 3,9 | 3,61 | 3414 | 60000 | | | | | | | | |
| | 398 | 3,5 | 3,30 | 3776 | 4,3 | 3,96 | 3110 | 60000 | | | | | | | | |
| | 546 | 1,6 | 1,64 | 8174 | 2,0 | 1,96 | 6688 | 60000 | iRAM iRFM iRAFM | 144 / 100 L 6a | 343 344 345 | 551 565 591 | | | | |
| | | 488 | 1,8 | 1,83 | 7305 | 2,3 | 2,20 | 5977 | | | | | | | | |
| | | 438 | 2,1 | 2,05 | 6562 | 2,5 | 2,46 | 5369 | | | | | 60000 | | | |
| 384 | | 2,3 | 2,27 | 5758 | 2,9 | 2,73 | 4711 | 60000 | iRAPM iRFPM iRAFP | 144 / 90 L 4a | 346 347 348 | 547 561 587 | | | | |
| 546 | | 2,6 | 2,60 | 5255 | 3,1 | 3,12 | 4327 | 60000 | | | | | | | | |
| 488 | | 2,9 | 2,90 | 4696 | 3,5 | 3,48 | 3867 | 60000 | | | | | | | | |
| 1227 | | 1,1 | 0,84 | 11641 | 1,4 | 1,01 | 9587 | 55000 | | | | | iRAM iRFM iRAFM | 123 iR 72 / 90 L 4a | 331 332 333 | 350 352 380 |
| 1025 | 1,4 | 1,01 | 9725 | 1,7 | 1,21 | 8008 | 55000 | | | | | | | | | |
| 902 | 1,6 | 1,14 | 8558 | 1,9 | 1,36 | 7047 | 55000 | | | | | | | | | |



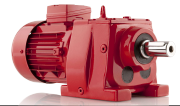
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | kg | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------------|---------------------|-----------------------|---------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | |
| 1,5 2,2 | 1050 | 1,3 | 0,95 | 9962 | 1,6 | 1,14 | 8204 | 55000 | iRAM iRFM iRAFM | 122 iR 73 / 90 L 4a | 331 | 323 | | |
| | 935 | 1,5 | 0,95 | 8871 | 1,8 | 1,14 | 7305 | 55000 | | | 332 | 325 | | |
| | 647 | 1,4 | 0,90 | 9700 | 1,7 | 1,08 | 7936 | 55000 | | | 333 | 353 | | |
| | 591 | 1,5 | 0,99 | 8850 | 1,9 | 1,19 | 7241 | 55000 | iRAM iRFM iRAFM | 124 / 100 L 6a | 325 | 376 | | |
| | 883 | 1,6 | 0,95 | 8506 | 1,9 | 1,14 | 7005 | 55000 | | | 326 | 378 | | |
| | 799 | 1,8 | 1,06 | 7692 | 2,1 | 1,27 | 6335 | 55000 | iRAPM iRFPM iRAFP M | 124 / 90 L 4a | 327 | 406 | | |
| | 647 | 2,2 | 1,40 | 6236 | 2,6 | 1,68 | 5135 | 55000 | | | 328 | 372 | | |
| | 591 | 2,4 | 1,54 | 5689 | 2,9 | 1,85 | 4685 | 55000 | | | 329 | 374 | | |
| | 530 | 2,6 | 1,69 | 5107 | 3,2 | 2,02 | 4206 | 55000 | | | 330 | 402 | | |
| | 479 | 2,9 | 1,91 | 4618 | 3,5 | 2,29 | 3803 | 55000 | | | | | | |
| | 400 | 3,5 | 2,27 | 3857 | 4,2 | 2,73 | 3177 | 55000 | | | | | | |
| | 352 | 4,0 | 2,57 | 3394 | 4,8 | 3,08 | 2795 | 55000 | | | | | | |
| | 313 | 4,5 | 2,86 | 3012 | 5,4 | 3,43 | 2480 | 55000 | | | | | | |
| | 279 | 5,0 | 3,23 | 2691 | 6,1 | 3,87 | 2216 | 55000 | | | | | | |
| | 251 | 5,6 | 3,60 | 2417 | 6,8 | 4,32 | 1990 | 55000 | | | | | | |
| | 548 | 2,6 | 0,81 | 5283 | 3,1 | 0,97 | 4351 | 34000 | | | iRAM iRFM iRAFM | 104 / 90 L 4a | | |
| | 495 | 2,8 | 0,88 | 4763 | 3,4 | 1,06 | 3923 | 34000 | | | | | 307 | 249 |
| | 447 | 3,1 | 0,99 | 4302 | 3,8 | 1,19 | 3543 | 34000 | 308 | 252 | | | | |
| | 406 | 3,5 | 1,06 | 3909 | 4,2 | 1,28 | 3219 | 34000 | 309 | 274 | | | | |
| | 371 | 3,8 | 1,17 | 3570 | 4,6 | 1,41 | 2940 | 34000 | | | | | | |
| | 340 | 4,1 | 1,28 | 3275 | 5,0 | 1,54 | 2697 | 34000 | | | | | | |
| | 306 | 4,6 | 1,45 | 2952 | 5,5 | 1,74 | 2431 | 34000 | | | | | | |
| | 281 | 5,0 | 1,55 | 2708 | 6,0 | 1,86 | 2230 | 34000 | | | | | | |
| | 256 | 3,5 | 1,09 | 3895 | 4,3 | 1,31 | 3187 | 31000 | | | | | | |
| | 225 | 4,0 | 1,19 | 3424 | 4,9 | 1,43 | 2802 | 31000 | | | | | | |
| | 208 | 4,3 | 1,31 | 3159 | 5,3 | 1,57 | 2585 | 31000 | iRAM iRFM iRAFM | 103 / 100 L 6a | 301 | 229 | | |
| | 185 | 4,9 | 1,47 | 2808 | 6,0 | 1,76 | 2297 | 31000 | | | 302 | 232 | | |
| | 165 | 5,4 | 1,64 | 2517 | 6,6 | 1,97 | 2060 | 31000 | | | 303 | 254 | | |
| | 141 | 6,4 | 2,00 | 2140 | 7,8 | 2,40 | 1751 | 31000 | | | | | | |
| | 126 | 7,1 | 2,20 | 1919 | 8,7 | 2,64 | 1570 | 31000 | | | | | | |
| | 380 | 3,7 | 0,81 | 3661 | 4,5 | 0,97 | 3015 | 26000 | | | iRAM iRFM iRAFM | 94 / 90 L 4a | | |
| | 338 | 4,1 | 0,92 | 3254 | 5,0 | 1,10 | 2679 | 26000 | 289 | 159 | | | | |
| | 302 | 4,6 | 0,99 | 2911 | 5,6 | 1,19 | 2397 | 26000 | 290 | 169 | | | | |
| | 269 | 5,2 | 1,14 | 2592 | 6,3 | 1,36 | 2135 | 26000 | 291 | 179 | | | | |
| | 237 | 5,9 | 1,28 | 2284 | 7,2 | 1,54 | 1881 | 26000 | | | | | | |
| | 211 | 6,6 | 1,43 | 2030 | 8,1 | 1,72 | 1672 | 26000 | | | | | | |
| | 189 | 7,4 | 1,60 | 1817 | 9,0 | 1,92 | 1496 | 26000 | | | | | | |
| | 170 | 8,2 | 1,80 | 1635 | 10 | 2,16 | 1346 | 26000 | | | | | | |
| | 153 | 9,1 | 1,95 | 1478 | 11 | 2,34 | 1217 | 26000 | | | | | | |
| | 293 | 4,8 | 0,98 | 2870 | 5,8 | 1,17 | 2363 | 23100 | iRAPM iRFPM iRAFP M | 93 / 90 L 4a | | | | |
| 274 | 5,1 | 1,05 | 2677 | 6,2 | 1,25 | 2204 | 23100 | 286 | | | 141 | | | |
| 241 | 5,8 | 1,17 | 2352 | 7,1 | 1,41 | 1937 | 23100 | 287 | | | 151 | | | |
| 214 | 6,6 | 1,34 | 2089 | 8,0 | 1,61 | 1720 | 22800 | 288 | | | 161 | | | |
| 191 | 7,3 | 1,50 | 1871 | 8,9 | 1,80 | 1541 | 22800 | | | | | | | |
| 173 | 8,1 | 1,66 | 1689 | 9,8 | 1,99 | 1391 | 22800 | | | | | | | |
| 157 | 8,9 | 1,83 | 1534 | 11 | 2,19 | 1263 | 22800 | | | | | | | |
| 131 | 11 | 2,18 | 1283 | 13 | 2,62 | 1056 | 22700 | | | | | | | |
| 121 | 12 | 2,35 | 1180 | 14 | 2,82 | 972 | 22700 | | | | | | | |
| 110 | 13 | 2,60 | 1076 | 15 | 3,12 | 886 | 22700 | | | | | | | |
| 96,96 | 14 | 2,93 | 948 | 18 | 3,52 | 781 | 22700 | iRAM iRFM iRAFM | 84 / 90 L 4a | | | | | |
| 86,17 | 16 | 3,30 | 843 | 20 | 3,96 | 694 | 22700 | | | 271 | 98 | | | |
| 196 | 7,1 | 0,77 | 1891 | 8,7 | 0,92 | 1557 | 18100 | | | 272 | 103 | | | |
| 174 | 8,0 | 0,86 | 1681 | 9,7 | 1,04 | 1384 | 18100 | | | 273 | 105 | | | |
| 168 | 8,3 | 0,94 | 1622 | 10 | 1,12 | 1336 | 18100 | | | | | | | |



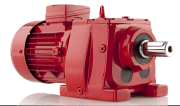
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 1,5 2,2 | 168 | 8,3 | 0,88 | 1646 | 10 | 1,06 | 1356 | 16700 | iRAM iRFM iRAFM | 83 / 90 L 4a | 265 266 267 | 88 93 95 |
| | 153 | 9,2 | 0,95 | 1493 | 11 | 1,14 | 1230 | 16700 | | | | |
| | 139 | 10 | 1,06 | 1361 | 12 | 1,28 | 1121 | 16700 | | | | |
| | 127 | 11 | 1,17 | 1246 | 13 | 1,41 | 1026 | 16500 | | | | |
| | 117 | 12 | 1,28 | 1145 | 15 | 1,54 | 943 | 16500 | | | | |
| | 103 | 14 | 1,43 | 1007 | 17 | 1,72 | 830 | 16300 | | | | |
| | 91,85 | 15 | 1,61 | 898 | 19 | 1,94 | 740 | 16300 | | | | |
| | 82,47 | 17 | 1,83 | 806 | 21 | 2,20 | 664 | 16300 | | | | |
| | 74,47 | 19 | 2,05 | 728 | 23 | 2,46 | 600 | 16300 | | | | |
| | 66,18 | 21 | 2,27 | 647 | 26 | 2,73 | 533 | 16250 | | | | |
| | 59,39 | 24 | 2,55 | 581 | 29 | 3,06 | 478 | 16250 | | | | |
| | 53,54 | 26 | 2,75 | 524 | 32 | 3,30 | 431 | 16250 | | | | |
| | 47,59 | 29 | 3,15 | 465 | 36 | 3,78 | 383 | 16200 | | | | |
| | 45,93 | 30 | 3,20 | 449 | 37 | 3,84 | 370 | 16200 | | | | |
| | 41,22 | 34 | 3,60 | 403 | 41 | 4,32 | 332 | 16200 | | | | |
| | 37,16 | 38 | 3,96 | 363 | 46 | 4,75 | 299 | 16200 | | | | |
| | 91,36 | 15 | 1,06 | 893 | 19 | 1,27 | 736 | 10000 | | | | |
| | 81,25 | 17 | 1,21 | 795 | 21 | 1,45 | 654 | 10000 | | | | |
| | 72,76 | 19 | 1,28 | 711 | 23 | 1,54 | 586 | 10000 | | | | |
| | 65,52 | 21 | 1,32 | 641 | 26 | 1,58 | 528 | 10000 | | | | |
| | 59,42 | 24 | 1,43 | 581 | 29 | 1,72 | 478 | 10000 | | | | |
| | 52,47 | 27 | 1,65 | 513 | 32 | 1,98 | 423 | 10000 | | | | |
| | 46,36 | 30 | 1,85 | 453 | 37 | 2,22 | 373 | 10000 | | | | |
| | 41,67 | 34 | 2,05 | 407 | 41 | 2,46 | 336 | 10000 | | | | |
| | 37,38 | 37 | 2,27 | 366 | 45 | 2,73 | 301 | 10000 | | | | |
| | 31,16 | 45 | 2,57 | 305 | 55 | 3,08 | 251 | 10000 | | | | |
| | 27,84 | 50 | 2,86 | 272 | 61 | 3,43 | 224 | 10000 | | | | |
| | 24,98 | 56 | 3,08 | 244 | 68 | 3,70 | 201 | 10000 | | | | |
| | 22,48 | 62 | 3,59 | 220 | 76 | 4,31 | 181 | 10000 | | | | |
| | 62,46 | 22 | 0,85 | 611 | 27 | 1,02 | 503 | 8950 | | | | |
| | 55,54 | 25 | 0,96 | 543 | 31 | 1,15 | 447 | 8900 | | | | |
| | 49,74 | 28 | 1,06 | 486 | 34 | 1,27 | 401 | 8900 | | | | |
| | 44,79 | 31 | 1,18 | 438 | 38 | 1,42 | 361 | 8850 | | | | |
| | 39,89 | 35 | 1,61 | 390 | 43 | 1,94 | 321 | 8850 | | | | |
| | 35,22 | 40 | 1,76 | 344 | 48 | 2,11 | 284 | 8800 | | | | |
| | 31,31 | 45 | 1,91 | 306 | 54 | 2,29 | 252 | 8800 | | | | |
| | 27,97 | 50 | 2,10 | 274 | 61 | 2,52 | 225 | 8700 | | | | |
| | 25,10 | 56 | 2,35 | 245 | 68 | 2,82 | 202 | 8700 | | | | |
| | 22,59 | 62 | 2,55 | 221 | 75 | 3,06 | 182 | 8600 | | | | |
| | 24,25 | 58 | 2,20 | 241 | 70 | 2,64 | 198 | 8700 | | | | |
| | 21,39 | 65 | 2,50 | 212 | 79 | 3,00 | 175 | 8600 | | | | |
| | 51,65 | 27 | 0,93 | 505 | 33 | 1,12 | 416 | 5400 | | | | |
| | 46,79 | 30 | 1,02 | 458 | 36 | 1,22 | 377 | 5400 | | | | |
| | 42,55 | 33 | 1,14 | 416 | 40 | 1,36 | 343 | 5400 | | | | |
| | 35,74 | 39 | 1,36 | 349 | 48 | 1,63 | 288 | 5400 | | | | |
| 29,85 | 47 | 1,61 | 292 | 57 | 1,94 | 240 | 5400 | | | | | |
| 25,16 | 56 | 1,91 | 246 | 68 | 2,29 | 203 | 5400 | | | | | |
| 21,50 | 65 | 2,24 | 210 | 79 | 2,68 | 173 | 5400 | | | | | |
| 20,53 | 68 | 2,35 | 201 | 83 | 2,82 | 165 | 5400 | | | | | |
| 18,18 | 77 | 2,65 | 178 | 94 | 3,18 | 146 | 5400 | | | | | |
| 15,59 | 90 | 3,00 | 152 | 109 | 3,60 | 126 | 5400 | | | | | |
| 13,81 | 101 | 3,35 | 135 | 123 | 4,02 | 111 | 5400 | | | | | |
| 51,65 | 27 | 0,93 | 505 | 33 | 1,12 | 416 | 5400 | | | | | |
| 46,79 | 30 | 1,02 | 458 | 36 | 1,22 | 377 | 5400 | | | | | |
| 42,55 | 33 | 1,14 | 416 | 40 | 1,36 | 343 | 5400 | | | | | |
| 35,74 | 39 | 1,36 | 349 | 48 | 1,63 | 288 | 5400 | | | | | |
| | | | | | | | | iRAM | 63 / 90 L 4a | 211 212 213 | 37 42 43 | |
| | | | | | | | | iRFM | | | | |
| | | | | | | | | iRAFM | | | | |
| | | | | | | | | | iRAM | 631 / 90 L 4a | 193 194 195 | 40 45 46 |
| | | | | | | | | iRFM | | | | |
| | | | | | | | | iRAFM | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 1,5 2,2 | 29,85 | 47 | 1,61 | 292 | 57 | 1,94 | 240 | 5400 | iRAM iRFM iRAFM | 631 / 90 L 4a | 193 194 195 | 40 45 46 |
| | 25,16 | 56 | 1,91 | 246 | 68 | 2,29 | 203 | 5400 | | | | |
| | 21,50 | 65 | 2,24 | 210 | 79 | 2,68 | 173 | 5400 | | | | |
| | 20,53 | 68 | 2,35 | 201 | 83 | 2,82 | 165 | 5400 | | | | |
| | 18,18 | 77 | 2,65 | 178 | 94 | 3,18 | 146 | 5400 | | | | |
| | 15,59 | 90 | 3,00 | 152 | 109 | 3,60 | 126 | 5400 | | | | |
| | 13,81 | 101 | 3,35 | 135 | 123 | 4,02 | 111 | 5400 | iRAM iRFM iRAFM | 621 / 90 L 4a | 193 194 195 | 35 40 41 |
| | 16,67 | 84 | 2,50 | 166 | 102 | 3,00 | 136 | 5200 | | | | |
| | 15,13 | 93 | 2,75 | 150 | 112 | 3,30 | 124 | 5200 | | | | |
| | 13,48 | 104 | 3,05 | 134 | 126 | 3,66 | 110 | 5200 | | | | |
| | 12,21 | 115 | 3,20 | 121 | 139 | 3,84 | 100 | 5200 | | | | |
| | 11,10 | 126 | 3,50 | 110 | 153 | 4,20 | 91 | 5200 | | | | |
| | 10,07 | 139 | 3,82 | 100 | 169 | 4,58 | 82 | 5200 | iRAM iRFM iRAFM | 62 / 90 L 4a | 211 212 213 | 38 43 44 |
| | 9,358 | 150 | 3,60 | 93 | 182 | 4,31 | 77 | 5200 | | | | |
| | 8,510 | 165 | 3,81 | 84 | 200 | 4,58 | 70 | 5200 | | | | |
| | 7,673 | 182 | 3,96 | 76 | 222 | 4,75 | 63 | 5200 | | | | |
| | 16,67 | 84 | 2,50 | 166 | 102 | 3,00 | 136 | 5200 | | | | |
| | 15,13 | 93 | 2,75 | 150 | 112 | 3,30 | 124 | 5200 | | | | |
| | 13,48 | 104 | 3,05 | 134 | 126 | 3,66 | 110 | 5200 | iRAM iRFM iRAFM | 53 / 90 L 4a | 181 182 183 | 27 29 30 |
| | 12,21 | 115 | 3,20 | 121 | 139 | 3,84 | 100 | 5200 | | | | |
| | 11,10 | 126 | 3,50 | 110 | 153 | 4,20 | 91 | 5200 | | | | |
| | 10,07 | 139 | 3,82 | 100 | 169 | 4,58 | 82 | 5200 | | | | |
| | 9,358 | 150 | 3,60 | 93 | 182 | 4,31 | 77 | 5200 | | | | |
| | 8,510 | 165 | 3,81 | 84 | 200 | 4,58 | 70 | 5200 | | | | |
| | 7,673 | 182 | 3,96 | 76 | 222 | 4,75 | 63 | 5200 | iRAM iRFM iRAFM | 52 / 90 L 4a | 181 182 183 | 30 32 33 |
| | 21,88 | 64 | 0,82 | 214 | 78 | 0,98 | 176 | 2950 | | | | |
| | 19,70 | 71 | 0,91 | 193 | 86 | 1,09 | 159 | 2900 | | | | |
| | 17,78 | 79 | 1,02 | 174 | 96 | 1,22 | 143 | 2900 | | | | |
| | 16,08 | 87 | 1,14 | 157 | 106 | 1,36 | 129 | 2800 | | | | |
| | 13,29 | 105 | 1,18 | 132 | 128 | 1,42 | 109 | 2750 | | | | |
| | 11,81 | 119 | 1,33 | 117 | 144 | 1,60 | 97 | 2700 | iRAM iRFM iRAFM | 52 / 90 S 2a | 181 182 183 | 26 28 29 |
| | 10,56 | 133 | 1,46 | 105 | 161 | 1,75 | 86 | 2650 | | | | |
| | 9,470 | 148 | 1,62 | 94 | 180 | 1,94 | 77 | 2600 | | | | |
| | 8,888 | 158 | 1,69 | 88 | 191 | 2,03 | 73 | 2550 | | | | |
| | 7,974 | 176 | 1,76 | 79 | 213 | 2,11 | 65 | 2550 | | | | |
| | 7,178 | 195 | 1,84 | 71 | 237 | 2,20 | 59 | 2550 | | | | |
| | 6,479 | 216 | 1,91 | 64 | 262 | 2,29 | 53 | 2500 | iRAM iRFM iRAFM | 52 / 90 S 2a | 181 182 183 | 26 28 29 |
| | 5,821 | 241 | 1,98 | 58 | 292 | 2,38 | 48 | 2400 | | | | |
| | 5,254 | 266 | 2,05 | 52 | 324 | 2,46 | 43 | 2350 | | | | |
| | 5,032 | 278 | 2,13 | 50 | 338 | 2,55 | 41 | 2350 | | | | |
| | 4,515 | 310 | 2,34 | 45 | 377 | 2,81 | 37 | 2250 | | | | |
| | 4,064 | 344 | 2,49 | 40 | 418 | 2,99 | 33 | 2200 | | | | |
| 3,668 | 382 | 2,64 | 36 | 463 | 3,17 | 30 | 2150 | iRAM iRFM iRAFM | 52 / 90 S 2a | 181 182 183 | 26 28 29 | |
| 3,317 | 422 | 2,86 | 33 | 513 | 3,43 | 27 | 2150 | | | | | |
| 3,059 | 458 | 2,86 | 30 | 556 | 3,43 | 25 | 2150 | | | | | |
| 2,906 | 482 | 3,01 | 29 | 585 | 3,61 | 24 | 2150 | | | | | |
| 2,572 | 544 | 3,23 | 26 | 661 | 3,88 | 21 | 2150 | | | | | |
| 9,470 | 296 | 3,15 | 47 | 359 | 3,78 | 39 | 2350 | | | | | |
| 8,888 | 315 | 3,08 | 44 | 383 | 3,70 | 36 | 2350 | iRAM iRFM iRAFM | 52 / 90 S 2a | 181 182 183 | 26 28 29 | |
| 7,974 | 351 | 3,08 | 40 | 426 | 3,70 | 33 | 2200 | | | | | |
| 7,178 | 390 | 3,23 | 36 | 474 | 3,87 | 29 | 2200 | | | | | |
| 6,479 | 432 | 3,45 | 32 | 525 | 4,14 | 26 | 2150 | | | | | |
| 5,821 | 481 | 3,45 | 29 | 584 | 4,14 | 24 | 2100 | | | | | |
| 5,254 | 533 | 3,67 | 26 | 647 | 4,40 | 21 | 2000 | | | | | |
| 5,032 | 556 | 3,96 | 25 | 676 | 4,75 | 21 | 1900 | iRAM iRFM iRAFM | 52 / 90 S 2a | 181 182 183 | 26 28 29 | |
| 4,515 | 620 | 4,40 | 22 | 753 | 5,28 | 18 | 1750 | | | | | |



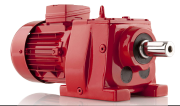
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 1,5 2,2 | 6,872 | 204 | 0,91 | 68 | 247 | 1,09 | 56 | 1000 | iRAM iRFM iRAFM | 42 / 90 L 4a | 175 176 177 | 22 23 24 |
| | 6,080 | 230 | 1,02 | 60 | 280 | 1,23 | 50 | 970 | | | | |
| | 5,538 | 253 | 1,10 | 55 | 307 | 1,32 | 45 | 970 | | | | |
| | 5,398 | 259 | 1,14 | 54 | 315 | 1,36 | 44 | 930 | | | | |
| | 4,900 | 286 | 1,21 | 49 | 347 | 1,45 | 40 | 900 | | | | |
| | 4,803 | 291 | 1,28 | 48 | 354 | 1,54 | 39 | 860 | | | | |
| | 4,350 | 322 | 1,35 | 43 | 391 | 1,62 | 36 | 830 | | | | |
| | 4,280 | 327 | 1,42 | 42 | 397 | 1,71 | 35 | 800 | | | | |
| | 3,870 | 362 | 1,54 | 38 | 439 | 1,84 | 32 | 770 | | | | |
| | 3,449 | 406 | 1,72 | 34 | 493 | 2,06 | 28 | 750 | | | | |
| 2,2 3 | 1589 | 0,88 | 0,80 | 22116 | 1,1 | 0,96 | 18214 | 110000 | iRAM iRFM iRAFM | 153 iR 92 / 100 L 4a | 373 374 375 | 1073 1123 1143 |
| | 1381 | 1,0 | 0,93 | 19218 | 1,2 | 1,12 | 15826 | 110000 | | | | |
| | 1217 | 1,2 | 1,05 | 16928 | 1,4 | 1,26 | 13941 | 110000 | | | | |
| | 1035 | 1,4 | 1,22 | 14404 | 1,6 | 1,46 | 11862 | 110000 | iRAM iRFM iRAFM | 152 iR 93 / 100 L 4a | 373 374 375 | 1003 1053 1053 |
| | 792 | 1,8 | 1,64 | 11027 | 2,1 | 1,97 | 9081 | 110000 | | | | |
| | 1414 | 0,99 | 0,85 | 19676 | 1,2 | 1,02 | 16204 | 110000 | | | | |
| | 1203 | 1,2 | 1,00 | 16742 | 1,4 | 1,20 | 13787 | 110000 | iRAM iRFM iRAFM | 154 / 100 L 4a | 367 368 369 | 1023 1073 1093 |
| | 1033 | 1,4 | 1,18 | 14380 | 1,6 | 1,42 | 11842 | 110000 | | | | |
| | 784 | 1,8 | 1,64 | 11077 | 2,2 | 1,97 | 9122 | 110000 | | | | |
| | 695 | 2,0 | 1,84 | 9823 | 2,4 | 2,21 | 8090 | 110000 | iRAM iRFM iRAFM | 143 iR 72 / 100 L 4a | 349 350 351 | 527 541 567 |
| | 612 | 2,3 | 2,10 | 8650 | 2,8 | 2,52 | 7123 | 110000 | | | | |
| | 549 | 2,6 | 2,30 | 7752 | 3,1 | 2,76 | 6384 | 110000 | | | | |
| | 495 | 2,8 | 2,60 | 6999 | 3,4 | 3,12 | 5764 | 110000 | iRAM iRFM iRAFM | 144 / 112 M 6a | 343 344 345 | 558 572 598 |
| | 432 | 3,2 | 3,00 | 6101 | 3,9 | 3,60 | 5025 | 110000 | | | | |
| | 362 | 3,9 | 3,50 | 5112 | 4,7 | 4,20 | 4210 | 110000 | | | | |
| | 321 | 4,4 | 3,90 | 4539 | 5,3 | 4,68 | 3738 | 110000 | iRAM iRFM iRAFM | 144 / 100 L 4a | 343 344 345 | 549 563 589 |
| | 1120 | 1,3 | 0,80 | 15585 | 1,5 | 0,96 | 12834 | 60000 | | | | |
| | 983 | 1,4 | 0,93 | 13678 | 1,7 | 1,11 | 11264 | 60000 | | | | |
| | 877 | 1,6 | 1,02 | 12203 | 1,9 | 1,23 | 10050 | 60000 | iRAM iRFM iRAFM | 123 iR 72 / 100 L 4a | 331 332 333 | 352 354 382 |
| | 787 | 1,8 | 1,13 | 10951 | 2,2 | 1,35 | 9018 | 60000 | | | | |
| | 750 | 1,9 | 1,19 | 10436 | 2,3 | 1,43 | 8594 | 60000 | | | | |
| | 673 | 2,1 | 1,33 | 9365 | 2,5 | 1,60 | 7712 | 60000 | iRAM iRFM iRAFM | 103 iR 72 / 100 L 4a | 313 314 315 | 267 270 292 |
| | 607 | 2,3 | 1,50 | 8446 | 2,8 | 1,80 | 6956 | 60000 | | | | |
| | 546 | 1,6 | 1,12 | 11988 | 2,0 | 1,34 | 9809 | 60000 | | | | |
| | 488 | 1,8 | 1,25 | 10714 | 2,3 | 1,50 | 8766 | 60000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 326 327 | 374 376 404 |
| | 438 | 2,1 | 1,40 | 9625 | 2,5 | 1,68 | 7875 | 60000 | | | | |
| | 384 | 2,3 | 1,55 | 8445 | 2,9 | 1,86 | 6910 | 60000 | | | | |
| | 546 | 2,6 | 1,77 | 7707 | 3,1 | 2,13 | 6347 | 60000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 326 327 | 374 376 404 |
| | 488 | 2,9 | 1,98 | 6887 | 3,5 | 2,37 | 5672 | 60000 | | | | |
| | 438 | 3,2 | 2,18 | 6187 | 3,9 | 2,62 | 5095 | 60000 | | | | |
| 384 | 3,6 | 2,45 | 5429 | 4,4 | 2,95 | 4471 | 60000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 326 327 | 374 376 404 | |
| 345 | 4,1 | 2,80 | 4868 | 4,9 | 3,36 | 4009 | 60000 | | | | | |
| 308 | 4,6 | 3,10 | 4344 | 5,5 | 3,72 | 3578 | 60000 | | | | | |
| 800 | 1,8 | 0,88 | 11132 | 2,1 | 1,05 | 9167 | 55000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 326 327 | 374 376 404 | |
| 715 | 2,0 | 0,99 | 9949 | 2,4 | 1,19 | 8193 | 55000 | | | | | |
| 428 | 3,3 | 0,82 | 5956 | 4,0 | 0,98 | 4905 | 30700 | | | | | |
| 647 | 2,2 | 0,96 | 9146 | 2,6 | 1,15 | 7532 | 55000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 326 327 | 374 376 404 | |
| 591 | 2,4 | 1,05 | 8344 | 2,9 | 1,26 | 6872 | 55000 | | | | | |
| 530 | 2,6 | 1,15 | 7491 | 3,2 | 1,38 | 6169 | 55000 | | | | | |
| 479 | 2,9 | 1,30 | 6773 | 3,5 | 1,56 | 5578 | 55000 | | | | | |
| 400 | 3,5 | 1,55 | 5657 | 4,2 | 1,86 | 4659 | 55000 | | | | | |
| 352 | 4,0 | 1,75 | 4978 | 4,8 | 2,10 | 4100 | 55000 | | | | | |
| 313 | 4,5 | 1,95 | 4417 | 5,4 | 2,34 | 3638 | 55000 | | | | | |



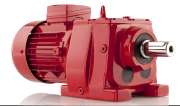
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | kg | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|--------|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 2,2 3 | 279 | 5,0 | 2,20 | 3946 | 6,1 | 2,64 | 3250 | 55000 | iRAM iRFM iRAFM | 124 / 100 L 4a | 325 | 374 |
| | 251 | 5,6 | 2,46 | 3545 | 6,8 | 2,95 | 2919 | 55000 | | | 326 | 376 |
| | 226 | 6,2 | 2,73 | 3199 | 7,5 | 3,27 | 2634 | 55000 | | | 327 | 404 |
| | 215 | 6,5 | 2,80 | 3039 | 7,9 | 3,35 | 2503 | 55000 | iRAM iRFM iRAFM | 104 / 100 L 4a | 307 | 251 |
| | 371 | 3,8 | 0,80 | 5236 | 4,6 | 0,96 | 4312 | 34000 | | | 308 | 254 |
| | 340 | 4,1 | 0,88 | 4803 | 5,0 | 1,05 | 3955 | 34000 | | | 309 | 276 |
| | 306 | 4,6 | 0,99 | 4329 | 5,5 | 1,19 | 3565 | 34000 | iRAM iRFM iRAFM | 103 / 112 M 6a | 301 | 237 |
| | 281 | 5,0 | 1,06 | 3971 | 6,0 | 1,27 | 3270 | 34000 | | | 302 | 240 |
| | 256 | 3,5 | 0,74 | 5712 | 4,3 | 0,89 | 4674 | 30700 | | | 303 | 262 |
| | 225 | 4,0 | 0,81 | 5022 | 4,9 | 0,97 | 4109 | 30700 | iRAM iRFM iRAFM | 103 / 100 L 4a | 301 | 228 |
| | 208 | 4,3 | 0,89 | 4633 | 5,3 | 1,07 | 3791 | 30700 | | | 302 | 231 |
| | 185 | 4,9 | 1,00 | 4118 | 6,0 | 1,20 | 3369 | 30700 | | | 303 | 253 |
| | 165 | 5,4 | 1,12 | 3692 | 6,6 | 1,34 | 3021 | 30700 | iRAM iRFM iRAFM | 94 / 100 L 4a | 289 | 161 |
| | 141 | 6,4 | 1,36 | 3139 | 7,8 | 1,64 | 2568 | 30700 | | | 290 | 171 |
| | 126 | 7,1 | 1,50 | 2814 | 8,7 | 1,80 | 2303 | 30700 | | | 291 | 181 |
| | 256 | 5,5 | 1,17 | 3672 | 6,6 | 1,40 | 3024 | 30700 | iRAM iRFM iRAFM | 93 / 100 L 4a | 283 | 143 |
| | 225 | 6,2 | 1,27 | 3229 | 7,6 | 1,52 | 2659 | 30700 | | | 284 | 153 |
| | 208 | 6,7 | 1,38 | 2979 | 8,2 | 1,66 | 2453 | 30700 | | | 285 | 163 |
| | 185 | 7,6 | 1,56 | 2647 | 9,2 | 1,87 | 2180 | 30700 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 165 | 8,5 | 1,74 | 2373 | 10 | 2,09 | 1955 | 30700 | | | 266 | 95 |
| | 141 | 10,0 | 2,10 | 2018 | 12 | 2,52 | 1662 | 30550 | | | 267 | 97 |
| | 126 | 11 | 2,30 | 1809 | 13 | 2,76 | 1490 | 30550 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 113 | 12 | 2,60 | 1623 | 15 | 3,12 | 1337 | 30550 | | | 266 | 95 |
| | 104 | 14 | 2,80 | 1485 | 16 | 3,36 | 1223 | 30550 | | | 267 | 97 |
| | 94,54 | 15 | 3,10 | 1356 | 18 | 3,72 | 1117 | 30550 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 86,72 | 16 | 3,30 | 1244 | 20 | 3,96 | 1024 | 30550 | | | 266 | 95 |
| | 77,32 | 18 | 3,70 | 1109 | 22 | 4,44 | 913 | 30400 | | | 267 | 97 |
| | 237 | 5,9 | 0,88 | 3351 | 7,2 | 1,05 | 2759 | 26000 | iRAM iRFM iRAFM | 94 / 100 L 4a | 289 | 161 |
| | 211 | 6,6 | 0,98 | 2978 | 8,1 | 1,17 | 2452 | 26000 | | | 290 | 171 |
| | 189 | 7,4 | 1,09 | 2664 | 9,0 | 1,31 | 2194 | 26000 | | | 291 | 181 |
| | 170 | 8,2 | 1,23 | 2397 | 10 | 1,47 | 1974 | 26000 | iRAM iRFM iRAFM | 93 / 100 L 4a | 283 | 143 |
| | 153 | 9,1 | 1,33 | 2167 | 11 | 1,60 | 1785 | 26000 | | | 284 | 153 |
| | 241 | 5,8 | 0,80 | 3449 | 7,1 | 0,96 | 2841 | 22500 | | | 285 | 163 |
| | 214 | 6,6 | 0,91 | 3064 | 8,0 | 1,10 | 2523 | 22500 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 191 | 7,3 | 1,02 | 2745 | 8,9 | 1,22 | 2260 | 22500 | | | 266 | 95 |
| | 173 | 8,1 | 1,13 | 2477 | 9,8 | 1,35 | 2040 | 22500 | | | 267 | 97 |
| | 157 | 8,9 | 1,24 | 2249 | 11 | 1,49 | 1852 | 22500 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 131 | 11 | 1,49 | 1881 | 13 | 1,78 | 1549 | 22500 | | | 266 | 95 |
| | 121 | 12 | 1,60 | 1731 | 14 | 1,92 | 1425 | 22500 | | | 267 | 97 |
| | 110 | 13 | 1,77 | 1578 | 15 | 2,12 | 1300 | 22500 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 |
| | 96,96 | 14 | 2,00 | 1391 | 18 | 2,40 | 1145 | 22500 | | | 266 | 95 |
| | 86,17 | 16 | 2,25 | 1236 | 20 | 2,70 | 1018 | 22400 | | | 267 | 97 |
| 77,10 | 18 | 2,50 | 1106 | 22 | 3,00 | 911 | 22400 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 | |
| 68,66 | 20 | 2,66 | 985 | 25 | 3,19 | 811 | 22400 | | | 266 | 95 | |
| 60,50 | 23 | 3,00 | 868 | 28 | 3,60 | 715 | 22400 | | | 267 | 97 | |
| 53,77 | 26 | 3,55 | 771 | 32 | 4,25 | 635 | 22250 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 | |
| 48,11 | 29 | 3,95 | 690 | 35 | 4,75 | 568 | 22250 | | | 266 | 95 | |
| 43,29 | 32 | 4,50 | 621 | 39 | 5,40 | 511 | 22250 | | | 267 | 97 | |
| 127 | 11 | 0,80 | 1828 | 13 | 0,96 | 1505 | 16100 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 | |
| 117 | 12 | 0,88 | 1680 | 15 | 1,05 | 1383 | 16100 | | | 266 | 95 | |
| 103 | 14 | 0,98 | 1478 | 17 | 1,17 | 1217 | 16100 | | | 267 | 97 | |
| 91,85 | 15 | 1,10 | 1317 | 19 | 1,32 | 1085 | 16100 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 | |
| 82,47 | 17 | 1,25 | 1183 | 21 | 1,50 | 974 | 16050 | | | 266 | 95 | |
| 74,47 | 19 | 1,40 | 1068 | 23 | 1,68 | 880 | 16050 | | | 267 | 97 | |
| 66,18 | 21 | 1,55 | 949 | 26 | 1,86 | 782 | 16050 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 | 90 | |
| 59,39 | 24 | 1,74 | 852 | 29 | 2,09 | 701 | 16000 | | | 266 | 95 | |
| 53,54 | 26 | 1,88 | 768 | 32 | 2,25 | 632 | 16000 | | | 267 | 97 | |



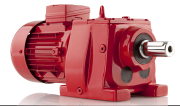
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 2,2 3 | 47,59 | 29 | 2,15 | 683 | 36 | 2,58 | 562 | 16000 | iRAM iRFM iRAFM | 83 / 100 L 4a | 265 266 267 | 90 95 97 |
| | 45,93 | 30 | 2,18 | 659 | 37 | 2,62 | 542 | 15900 | | | | |
| | 41,22 | 34 | 2,45 | 591 | 41 | 2,95 | 487 | 15900 | | | | |
| | 37,16 | 38 | 2,70 | 533 | 46 | 3,24 | 439 | 15850 | | | | |
| | 33,03 | 42 | 3,20 | 474 | 51 | 3,84 | 390 | 15800 | | | | |
| | 30,08 | 47 | 3,48 | 431 | 57 | 4,17 | 355 | 15750 | | | | |
| | 27,12 | 52 | 3,75 | 389 | 63 | 4,50 | 320 | 15500 | | | | |
| | 24,54 | 57 | 4,23 | 352 | 69 | 5,07 | 290 | 15300 | | | | |
| | 22,27 | 63 | 4,64 | 319 | 76 | 5,56 | 263 | 15100 | | | | |
| | 81,25 | 17 | 0,83 | 1165 | 21 | 0,99 | 960 | 9700 | iRAM iRFM iRAFM | 73 / 100 L 4a | 247 248 249 | 56 59 62 |
| | 72,76 | 19 | 0,88 | 1044 | 23 | 1,05 | 859 | 9700 | | | | |
| | 65,52 | 21 | 0,90 | 940 | 26 | 1,08 | 774 | 9700 | | | | |
| | 59,42 | 24 | 0,98 | 852 | 29 | 1,17 | 702 | 9700 | | | | |
| | 52,47 | 27 | 1,13 | 753 | 32 | 1,35 | 620 | 9700 | | | | |
| | 46,36 | 30 | 1,26 | 665 | 37 | 1,51 | 548 | 9700 | | | | |
| | 41,67 | 34 | 1,40 | 598 | 41 | 1,68 | 492 | 9700 | | | | |
| | 37,38 | 37 | 1,55 | 536 | 45 | 1,86 | 442 | 9700 | | | | |
| | 31,16 | 45 | 1,75 | 447 | 55 | 2,10 | 368 | 9700 | | | | |
| | 27,84 | 50 | 1,95 | 399 | 61 | 2,34 | 329 | 9700 | | | | |
| | 24,98 | 56 | 2,10 | 358 | 68 | 2,52 | 295 | 9700 | | | | |
| | 22,48 | 62 | 2,45 | 322 | 76 | 2,94 | 266 | 9700 | | | | |
| | 20,29 | 69 | 2,75 | 291 | 84 | 3,30 | 240 | 9700 | | | | |
| | 18,35 | 76 | 2,93 | 263 | 93 | 3,52 | 217 | 9700 | | | | |
| | 16,62 | 84 | 3,20 | 238 | 102 | 3,84 | 196 | 9700 | | | | |
| | 15,07 | 93 | 3,90 | 216 | 113 | 4,68 | 178 | 9700 | | | | |
| | 13,53 | 104 | 3,72 | 197 | 126 | 4,46 | 162 | 9350 | iRAM iRFM iRAFM | 72 / 100 L 4a | 247 248 249 | 54 57 60 |
| | 44,79 | 31 | 0,81 | 642 | 38 | 0,97 | 529 | 8650 | iRAM iRFM iRAFM | 731 / 100 L 4a | 229 230 231 | 53 56 59 |
| | 39,89 | 35 | 1,10 | 572 | 43 | 1,32 | 471 | 8650 | | | | |
| | 35,22 | 40 | 1,20 | 505 | 48 | 1,44 | 416 | 8600 | | | | |
| | 31,31 | 45 | 1,30 | 449 | 54 | 1,56 | 370 | 8600 | | | | |
| | 27,97 | 50 | 1,43 | 401 | 61 | 1,72 | 330 | 8500 | | | | |
| | 25,10 | 56 | 1,60 | 360 | 68 | 1,92 | 296 | 8500 | | | | |
| | 22,59 | 62 | 1,74 | 324 | 75 | 2,09 | 267 | 8400 | | | | |
| | 24,25 | 58 | 1,50 | 353 | 70 | 1,80 | 291 | 8500 | iRAM iRFM iRAFM | 721 / C90 L 4 | 229 230 231 | 50 53 56 |
| | 21,39 | 65 | 1,70 | 311 | 79 | 2,05 | 256 | 8400 | iRAM iRFM iRAFM | 721 / 100 L 4a | 229 230 231 | 51 54 57 |
| | 19,02 | 74 | 1,88 | 277 | 89 | 2,25 | 228 | 8350 | | | | |
| | 17,03 | 82 | 2,10 | 248 | 100 | 2,52 | 204 | 8300 | | | | |
| | 15,40 | 91 | 2,30 | 224 | 110 | 2,76 | 185 | 8300 | | | | |
| | 13,73 | 102 | 2,40 | 200 | 124 | 2,88 | 165 | 8200 | | | | |
| | 12,13 | 115 | 2,80 | 177 | 140 | 3,35 | 145 | 8200 | | | | |
| | 11,17 | 125 | 2,86 | 163 | 152 | 3,44 | 134 | 8200 | | | | |
| | 9,866 | 142 | 3,27 | 144 | 172 | 3,93 | 118 | 8100 | | | | |
| 35,74 | 39 | 0,93 | 513 | 48 | 1,11 | 422 | 4550 | iRAM iRFM iRAFM | 63 / 100 L 4a | 211 212 213 | 39 44 45 | |
| 29,85 | 47 | 1,10 | 428 | 57 | 1,32 | 353 | 4550 | | | | | |
| 25,16 | 56 | 1,30 | 361 | 68 | 1,56 | 297 | 4550 | | | | | |
| 21,50 | 65 | 1,53 | 308 | 79 | 1,83 | 254 | 4550 | | | | | |
| 20,53 | 68 | 1,60 | 294 | 83 | 1,92 | 242 | 4550 | | | | | |
| 18,18 | 77 | 1,81 | 261 | 94 | 2,17 | 215 | 4550 | | | | | |
| 15,59 | 90 | 2,05 | 224 | 109 | 2,45 | 184 | 4550 | | | | | |
| 13,81 | 101 | 2,28 | 198 | 123 | 2,74 | 163 | 4550 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------|-----------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | |
| 2,2 3 | 13,48 | 104 | 2,08 | 196 | 126 | 2,50 | 162 | 4150 | iRAM iRFM iRAFM | 62 / 100 L 4a | 211 212 213 | 40 45 46 | | | |
| | 12,21 | 115 | 2,18 | 178 | 139 | 2,62 | 146 | 4150 | | | | | | | |
| | 11,10 | 126 | 2,39 | 162 | 153 | 2,86 | 133 | 4150 | | | | | | | |
| | 10,07 | 139 | 2,60 | 147 | 169 | 3,12 | 121 | 4150 | | | | | | | |
| | 9,358 | 150 | 2,45 | 136 | 182 | 2,94 | 112 | 4150 | | | | | | | |
| | 8,510 | 165 | 2,60 | 124 | 200 | 3,12 | 102 | 4150 | | | | | | | |
| | 7,673 | 182 | 2,70 | 112 | 222 | 3,24 | 92 | 4150 | | | | | | | |
| | 7,108 | 197 | 2,90 | 103 | 239 | 3,48 | 85 | 4150 | | | | | | | |
| | 6,480 | 216 | 3,00 | 94 | 262 | 3,60 | 78 | 4150 | | | | | | | |
| | 5,992 | 234 | 3,20 | 87 | 284 | 3,85 | 72 | 4150 | | | | | | | |
| | 5,723 | 245 | 5,32 | 83 | 297 | 6,38 | 69 | 4150 | | | | | | | |
| | 35,74 | 39 | 0,93 | 513 | 48 | 1,11 | 422 | 4550 | | | | | iRAM iRFM iRAFM | 631 / 100 L 4a | 193 194 195 |
| | 29,85 | 47 | 1,10 | 428 | 57 | 1,32 | 353 | 4550 | | | | | | | |
| | 25,16 | 56 | 1,30 | 361 | 68 | 1,56 | 297 | 4550 | | | | | | | |
| | 21,50 | 65 | 1,53 | 308 | 79 | 1,83 | 254 | 4550 | | | | | | | |
| | 20,53 | 68 | 1,60 | 294 | 83 | 1,92 | 242 | 4550 | | | | | | | |
| | 18,18 | 77 | 1,81 | 261 | 94 | 2,17 | 215 | 4550 | | | | | | | |
| | 15,59 | 90 | 2,05 | 224 | 109 | 2,45 | 184 | 4550 | iRAM iRFM iRAFM | 621 / 100 L 4a | 193 194 195 | 37 42 43 | | | |
| | 13,81 | 101 | 2,28 | 198 | 123 | 2,74 | 163 | 4550 | | | | | | | |
| | 13,48 | 104 | 2,08 | 196 | 126 | 2,50 | 162 | 4150 | | | | | | | |
| | 12,21 | 115 | 2,18 | 178 | 139 | 2,62 | 146 | 4150 | | | | | | | |
| | 11,10 | 126 | 2,39 | 162 | 153 | 2,86 | 133 | 4150 | | | | | | | |
| | 10,07 | 139 | 2,60 | 147 | 169 | 3,12 | 121 | 4150 | | | | | | | |
| | 9,358 | 150 | 2,45 | 136 | 182 | 2,94 | 112 | 4150 | | | | | | | |
| | 8,510 | 165 | 2,60 | 124 | 200 | 3,12 | 102 | 4150 | | | | | | | |
| | 7,673 | 182 | 2,70 | 112 | 222 | 3,24 | 92 | 4150 | | | | | | | |
| | 7,108 | 197 | 2,90 | 103 | 239 | 3,48 | 85 | 4150 | | | | | | | |
| | 6,480 | 216 | 3,00 | 94 | 262 | 3,60 | 78 | 4150 | | | | | | | |
| | 5,992 | 234 | 3,20 | 87 | 284 | 3,85 | 72 | 4150 | | | | | | | |
| | 5,723 | 245 | 5,32 | 83 | 297 | 6,38 | 69 | 4150 | iRAM iRFM iRAFM | 52 / C90 L 4 | 181 182 183 | 30 32 33 | | | |
| | 13,29 | 105 | 0,81 | 194 | 128 | 0,97 | 159 | 2350 | | | | | | | |
| | 11,81 | 119 | 0,91 | 172 | 144 | 1,09 | 142 | 2250 | | | | | | | |
| | 10,56 | 133 | 0,99 | 154 | 161 | 1,19 | 127 | 2150 | iRAM iRFM iRAFM | 52 / 100 L 4a | 181 182 183 | 32 34 35 | | | |
| | 9,470 | 148 | 1,10 | 138 | 180 | 1,32 | 114 | 2100 | | | | | | | |
| | 8,888 | 158 | 1,15 | 129 | 191 | 1,38 | 107 | 2100 | | | | | | | |
| | 7,974 | 176 | 1,20 | 116 | 213 | 1,44 | 96 | 2100 | | | | | | | |
| | 7,178 | 195 | 1,25 | 105 | 237 | 1,50 | 86 | 2100 | | | | | | | |
| | 6,479 | 216 | 1,30 | 94 | 262 | 1,56 | 78 | 2050 | | | | | | | |
| | 5,821 | 241 | 1,35 | 85 | 292 | 1,62 | 70 | 2050 | | | | | | | |
| | 5,254 | 266 | 1,40 | 76 | 324 | 1,68 | 63 | 2050 | | | | | | | |
| | 5,032 | 278 | 1,45 | 73 | 338 | 1,74 | 60 | 2050 | | | | | | | |
| | 4,515 | 310 | 1,60 | 66 | 377 | 1,92 | 54 | 2050 | | | | | | | |
| 4,064 | 344 | 1,70 | 59 | 418 | 2,04 | 49 | 2000 | | | | | | | | |
| 3,668 | 382 | 1,80 | 53 | 463 | 2,16 | 44 | 2000 | | | | | | | | |
| 3,317 | 422 | 1,95 | 48 | 513 | 2,34 | 40 | 2000 | | | | | | | | |
| 3,059 | 458 | 1,95 | 45 | 556 | 2,34 | 37 | 2000 | | | | | | | | |
| 2,906 | 482 | 2,05 | 42 | 585 | 2,46 | 35 | 2000 | | | | | | | | |
| 2,572 | 544 | 2,20 | 37 | 661 | 2,64 | 31 | 2000 | iRAM iRFM iRAFM | | | | | 52 / 90 L 2a | 181 182 183 | 28 30 31 |
| 10,56 | 265 | 1,95 | 77 | 322 | 2,34 | 63 | 2050 | | | | | | | | |
| 9,470 | 296 | 2,15 | 69 | 359 | 2,58 | 57 | 2050 | | | | | | | | |
| 8,888 | 315 | 2,10 | 65 | 383 | 2,52 | 53 | 2000 | | | | | | | | |
| 7,974 | 351 | 2,10 | 58 | 426 | 2,52 | 48 | 1950 | | | | | | | | |
| 7,178 | 390 | 2,20 | 52 | 474 | 2,64 | 43 | 1900 | | | | | | | | |
| 6,479 | 432 | 2,35 | 47 | 525 | 2,82 | 39 | 1850 | | | | | | | | |
| 5,821 | 481 | 2,35 | 42 | 584 | 2,82 | 35 | 1850 | | | | | | | | |
| 5,254 | 533 | 2,50 | 38 | 647 | 3,00 | 31 | 1800 | | | | | | | | |



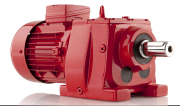
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-----------------------|-----------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 2,2 3 | 5,032 | 556 | 2,70 | 37 | 676 | 3,24 | 30 | 1800 | iRAM iRFM iRAFM | 52 / 90 L 2a | 181 | 28 |
| | 4,515 | 620 | 3,00 | 33 | 753 | 3,60 | 27 | 1700 | | | 182 | 30 |
| | 4,064 | 689 | 3,14 | 30 | 837 | 3,76 | 24 | 1600 | | | 183 | 31 |
| | 3,668 | 763 | 3,34 | 27 | 927 | 4,01 | 22 | 1550 | | | | |
| | 3,317 | 844 | 3,55 | 24 | 1025 | 4,26 | 20 | 1500 | | | | |
| 3 4 | 275 | 5,1 | 0,85 | 5218 | 6,2 | 1,02 | 4297 | 30000 | iRAM iRFM iRAFM | 103 iR 72 / 100 L 4b | 313 | 273 |
| | 248 | 5,6 | 1,00 | 4706 | 6,9 | 1,20 | 3875 | 30000 | | | 314 | 276 |
| | 239 | 5,9 | 1,00 | 4535 | 7,1 | 1,20 | 3735 | 30000 | | | 315 | 298 |
| | 211 | 6,6 | 1,10 | 4004 | 8,1 | 1,32 | 3297 | 30000 | iRAM iRFM iRAFM | 102 iR 72 / 100 L 4b | 313 | 233 |
| | 188 | 7,4 | 1,23 | 3567 | 9,0 | 1,47 | 2938 | 30000 | | | 314 | 236 |
| | 168 | 8,3 | 1,35 | 3188 | 10 | 1,62 | 2625 | 30000 | | | 315 | 258 |
| | 784 | 1,8 | 1,20 | 15105 | 2,2 | 1,44 | 12439 | 110000 | iRAM iRFM iRAFM | 154 / 100 L 4b | | |
| | 695 | 2,0 | 1,35 | 13395 | 2,4 | 1,62 | 11031 | 110000 | | | | |
| | 612 | 2,3 | 1,55 | 11795 | 2,8 | 1,86 | 9713 | 110000 | | | | |
| | 549 | 2,6 | 1,70 | 10572 | 3,1 | 2,04 | 8706 | 110000 | | | | |
| | 495 | 2,8 | 1,91 | 9544 | 3,4 | 2,29 | 7860 | 110000 | | | | |
| | 432 | 3,2 | 2,20 | 8320 | 3,9 | 2,64 | 6852 | 110000 | | | | |
| | 362 | 3,9 | 2,60 | 6970 | 4,7 | 3,12 | 5740 | 110000 | | | | |
| | 321 | 4,4 | 2,90 | 6190 | 5,3 | 3,48 | 5098 | 110000 | | | | |
| | 292 | 4,8 | 3,20 | 5618 | 5,8 | 3,84 | 4627 | 110000 | | | | |
| | 264 | 5,3 | 3,60 | 5093 | 6,4 | 4,32 | 4194 | 110000 | | | | |
| | 230 | 6,1 | 4,10 | 4425 | 7,4 | 4,92 | 3644 | 110000 | iRAM iRFM iRAFM | 144 / 132 S 6b | 343 | 576 |
| | 546 | 1,6 | 0,82 | 16348 | 2,0 | 0,98 | 13375 | 60000 | | | 344 | 590 |
| | 488 | 1,8 | 0,92 | 14610 | 2,3 | 1,10 | 11953 | 60000 | | | 345 | 616 |
| | 438 | 2,1 | 1,03 | 13125 | 2,5 | 1,23 | 10738 | 60000 | iRAM iRFM iRAFM | 144 / 100 L 4b | | |
| | 384 | 2,3 | 1,14 | 11516 | 2,9 | 1,36 | 9422 | 60000 | | | | |
| | 546 | 2,6 | 1,30 | 10509 | 3,1 | 1,56 | 8655 | 60000 | | | | |
| | 488 | 2,9 | 1,45 | 9392 | 3,5 | 1,74 | 7735 | 60000 | | | | |
| | 438 | 3,2 | 1,60 | 8437 | 3,9 | 1,92 | 6948 | 60000 | | | | |
| | 384 | 3,6 | 1,80 | 7403 | 4,4 | 2,16 | 6097 | 60000 | | | | |
| | 345 | 4,1 | 2,06 | 6638 | 4,9 | 2,47 | 5466 | 60000 | | | | |
| | 308 | 4,6 | 2,28 | 5924 | 5,5 | 2,73 | 4879 | 60000 | | | | |
| | 276 | 5,1 | 2,50 | 5317 | 6,2 | 2,99 | 4378 | 60000 | | | | |
| | 263 | 5,3 | 2,64 | 5065 | 6,5 | 3,17 | 4171 | 60000 | | | iRAM iRFM iRAFM | 124 / 100 L 4b |
| | 236 | 5,9 | 2,90 | 4545 | 7,2 | 3,48 | 3743 | 60000 | 326 | 383 | | |
| 591 | 2,4 | 0,77 | 11378 | 2,9 | 0,92 | 9370 | 50000 | 327 | 411 | | | |
| 530 | 2,6 | 0,84 | 10214 | 3,2 | 1,01 | 8412 | 50000 | | | | | |
| 479 | 2,9 | 0,95 | 9237 | 3,5 | 1,14 | 7607 | 50000 | | | | | |
| 400 | 3,5 | 1,14 | 7715 | 4,2 | 1,36 | 6353 | 50000 | | | | | |
| 352 | 4,0 | 1,28 | 6789 | 4,8 | 1,54 | 5591 | 50000 | | | | | |
| 313 | 4,5 | 1,43 | 6024 | 5,4 | 1,72 | 4961 | 50000 | | | | | |
| 279 | 5,0 | 1,61 | 5381 | 6,1 | 1,94 | 4432 | 50000 | | | | | |
| 251 | 5,6 | 1,80 | 4834 | 6,8 | 2,16 | 3981 | 50000 | | | | | |
| 226 | 6,2 | 2,00 | 4362 | 7,5 | 2,40 | 3592 | 50000 | iRAM iRFM iRAFM | 123 / 132 S 6b | 319 | 339 | |
| 215 | 6,5 | 2,05 | 4144 | 7,9 | 2,46 | 3413 | 50000 | | | 320 | 341 | |
| 186 | 4,8 | 1,45 | 5662 | 5,9 | 1,74 | 4633 | 50000 | | | 321 | 369 | |
| 167 | 5,4 | 1,62 | 5083 | 6,6 | 1,94 | 4159 | 50000 | | | | | |
| 151 | 6,0 | 1,79 | 4596 | 7,3 | 2,15 | 3761 | 50000 | | | | | |
| 122 | 7,3 | 2,40 | 3726 | 9,0 | 2,88 | 3049 | 50000 | | | | | |
| 112 | 8,1 | 2,50 | 3400 | 9,8 | 3,00 | 2781 | 50000 | | | | | |
| 100 | 9,0 | 2,80 | 3052 | 11 | 3,36 | 2497 | 48000 | | | | | |
| 90,71 | 9,9 | 3,00 | 2760 | 12 | 3,60 | 2258 | 48000 | | | | | |
| 75,77 | 12 | 3,70 | 2305 | 15 | 4,44 | 1886 | 48000 | | | iRAM iRFM iRAFM | 104 / 100 L 4b | 307 |
| 281 | 5,0 | 0,78 | 5415 | 6,0 | 0,93 | 4460 | 34000 | 308 | 261 | | | |
| | | | | | | | | 309 | 283 | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|-----------------------|-------------------|-------------------|--|----------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | | |
| 3 4 | 256 | 5,5 | 0,86 | 5007 | 6,6 | 1,03 | 4124 | 30000 | îRAM îRFM îRAFM | 103 / 100 L 4b | 301 302 303 | 234 237 259 | | | | |
| | 225 | 6,2 | 0,93 | 4403 | 7,6 | 1,12 | 3626 | 30000 | | | | | | | | |
| | 208 | 6,7 | 1,01 | 4062 | 8,2 | 1,21 | 3345 | 30000 | | | | | | | | |
| | 185 | 7,6 | 1,14 | 3610 | 9,2 | 1,37 | 2973 | 29700 | | | | | | | | |
| | 165 | 8,5 | 1,28 | 3237 | 10 | 1,53 | 2665 | 29700 | | | | | | | | |
| | 141 | 10,0 | 1,54 | 2752 | 12 | 1,85 | 2266 | 29700 | | | | | | | | |
| | 126 | 11 | 1,69 | 2467 | 13 | 2,02 | 2032 | 29700 | | | | | | | | |
| | 113 | 12 | 1,91 | 2214 | 15 | 2,29 | 1823 | 29700 | | | | | | | | |
| | 104 | 14 | 2,05 | 2024 | 16 | 2,46 | 1667 | 29700 | | | | | | | | |
| | 94,54 | 15 | 2,27 | 1849 | 18 | 2,73 | 1523 | 29450 | | | | | | | | |
| | 86,72 | 16 | 2,42 | 1696 | 20 | 2,90 | 1397 | 29450 | | | | | | | | |
| | 77,32 | 18 | 2,71 | 1512 | 22 | 3,26 | 1245 | 29450 | | | | | | | | |
| | 68,28 | 21 | 3,08 | 1335 | 25 | 3,70 | 1100 | 29450 | | | | | | | | |
| | 60,69 | 23 | 3,45 | 1187 | 28 | 4,14 | 977 | 29300 | | | | | | | | |
| | 189 | 7,4 | 0,80 | 3633 | 9,0 | 0,96 | 2992 | 26000 | | | | | îRAM îRFM îRAFM | 94 / 100 L 4b | 289 290 291 | 168 178 188 |
| | 170 | 8,2 | 0,90 | 3269 | 10 | 1,08 | 2692 | 26000 | | | | | | | | |
| | 153 | 9,1 | 0,98 | 2956 | 11 | 1,17 | 2434 | 26000 | | | | | | | | |
| | 157 | 8,9 | 0,91 | 3067 | 11 | 1,10 | 2526 | 22000 | | | | | | | | |
| | 131 | 11 | 1,09 | 2565 | 13 | 1,31 | 2113 | 22000 | | | | | | | | |
| | 121 | 12 | 1,17 | 2360 | 14 | 1,41 | 1944 | 22000 | | | | | | | | |
| | 110 | 13 | 1,30 | 2152 | 15 | 1,56 | 1772 | 22000 | | | | | | | | |
| | 96,96 | 14 | 1,47 | 1896 | 18 | 1,76 | 1562 | 22000 | | | | | | | | |
| | 86,17 | 16 | 1,65 | 1685 | 20 | 1,98 | 1388 | 21750 | | | | | | | | |
| | 77,10 | 18 | 1,83 | 1508 | 22 | 2,20 | 1242 | 21750 | | | | | | | | |
| | 68,66 | 20 | 1,95 | 1343 | 25 | 2,34 | 1106 | 21750 | | | | | | | | |
| | 60,50 | 23 | 2,20 | 1183 | 28 | 2,64 | 974 | 21750 | | | | | | | | |
| | 53,77 | 26 | 2,60 | 1052 | 32 | 3,12 | 866 | 21750 | | | | | | | | |
| | 48,11 | 29 | 2,90 | 941 | 35 | 3,48 | 775 | 21750 | | | | | | | | |
| | 43,29 | 32 | 3,30 | 847 | 39 | 3,96 | 697 | 21500 | | | | | | | | |
| | 39,14 | 36 | 3,59 | 765 | 43 | 4,31 | 630 | 21500 | | | | | | | | |
| | 35,52 | 39 | 3,96 | 695 | 48 | 4,75 | 572 | 21500 | | | | | | | | |
| | 32,34 | 43 | 4,40 | 633 | 53 | 5,28 | 521 | 21500 | | | | | | | | |
| | 82,47 | 17 | 0,92 | 1613 | 21 | 1,10 | 1328 | 15900 | îRAM îRFM îRAFM | 83 / 100 L 4b | 265 266 267 | 96 101 103 | | | | |
| | 74,47 | 19 | 1,03 | 1456 | 23 | 1,23 | 1199 | 15800 | | | | | | | | |
| | 66,18 | 21 | 1,14 | 1294 | 26 | 1,36 | 1066 | 15700 | | | | | | | | |
| | 59,39 | 24 | 1,28 | 1161 | 29 | 1,53 | 957 | 15700 | | | | | | | | |
| | 53,54 | 26 | 1,38 | 1047 | 32 | 1,65 | 862 | 15700 | | | | | | | | |
| | 47,59 | 29 | 1,58 | 931 | 36 | 1,89 | 766 | 15700 | | | | | | | | |
| | 45,93 | 30 | 1,60 | 898 | 37 | 1,92 | 740 | 15500 | | | | | | | | |
| | 41,22 | 34 | 1,80 | 806 | 41 | 2,16 | 664 | 15500 | | | | | | | | |
| | 37,16 | 38 | 1,98 | 727 | 46 | 2,38 | 598 | 15500 | | | | | | | | |
| | 33,03 | 42 | 2,35 | 646 | 51 | 2,82 | 532 | 15400 | | | | | | | | |
| | 30,08 | 47 | 2,55 | 588 | 57 | 3,06 | 484 | 15400 | | | | | | | | |
| | 27,12 | 52 | 2,75 | 530 | 63 | 3,30 | 437 | 15300 | | | | | | | | |
| 24,54 | 57 | 3,10 | 480 | 69 | 3,72 | 395 | 15100 | | | | | | | | | |
| 22,27 | 63 | 3,40 | 436 | 76 | 4,08 | 359 | 14900 | | | | | | | | | |
| 20,26 | 69 | 3,67 | 396 | 84 | 4,40 | 326 | 14500 | | | | | | | | | |
| 18,47 | 76 | 3,96 | 361 | 92 | 4,75 | 297 | 14250 | | | | | | | | | |
| 16,86 | 83 | 4,18 | 330 | 101 | 5,02 | 272 | 14150 | | | | | | | | | |
| 15,41 | 91 | 4,25 | 301 | 110 | 5,10 | 248 | 14100 | | | | | | | | | |
| 14,90 | 94 | 4,40 | 296 | 114 | 5,28 | 244 | 14050 | îRAM îRFM îRAFM | 82 / 100 L 4b | 265 266 267 | 89 94 96 | | | | | |
| 13,24 | 106 | 4,80 | 263 | 128 | 5,76 | 216 | 14000 | | | | | | | | | |
| 11,88 | 118 | 5,00 | 236 | 143 | 6,00 | 194 | 14000 | | | | | | | | | |
| 52,47 | 27 | 0,83 | 1026 | 32 | 0,99 | 845 | 9500 | îRAM îRFM îRAFM | 73 / 100 L 4b | 247 248 249 | 62 65 68 | | | | | |
| 46,36 | 30 | 0,93 | 907 | 37 | 1,11 | 747 | 9500 | | | | | | | | | |
| 41,67 | 34 | 1,03 | 815 | 41 | 1,23 | 671 | 9500 | | | | | | | | | |
| 37,38 | 37 | 1,14 | 731 | 45 | 1,36 | 602 | 9500 | | | | | | | | | |



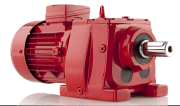
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 3 4 | 31,16 | 45 | 1,28 | 609 | 55 | 1,54 | 502 | 9500 | iRAM iRFM iRAFM | 73 / 100 L 4b | 247 248 249 | 62 65 68 |
| | 27,84 | 50 | 1,43 | 544 | 61 | 1,72 | 448 | 9500 | | | | |
| | 24,98 | 56 | 1,54 | 488 | 68 | 1,85 | 402 | 9500 | | | | |
| | 22,48 | 62 | 1,80 | 440 | 76 | 2,16 | 362 | 9500 | | | | |
| | 20,29 | 69 | 2,02 | 397 | 84 | 2,42 | 327 | 9500 | | | | |
| | 18,35 | 76 | 2,15 | 359 | 93 | 2,58 | 296 | 9500 | | | | |
| | 16,62 | 84 | 2,35 | 325 | 102 | 2,82 | 268 | 9500 | | | | |
| | 15,07 | 93 | 2,86 | 295 | 113 | 3,43 | 243 | 9500 | | | | |
| | 13,53 | 104 | 2,73 | 269 | 126 | 3,27 | 221 | 8800 | | | | |
| | 12,02 | 116 | 2,88 | 239 | 141 | 3,45 | 197 | 8800 | iRAM iRFM iRAFM | 72 / 100 L 4b | 247 248 249 | 60 63 66 |
| | 10,74 | 130 | 3,20 | 213 | 158 | 3,84 | 176 | 8800 | | | | |
| | 9,337 | 150 | 3,40 | 185 | 182 | 4,08 | 153 | 8800 | | | | |
| | 8,333 | 168 | 3,63 | 165 | 204 | 4,35 | 136 | 8800 | iRAM iRFM iRAFM | 731 / 100 L 4b | 229 230 231 | 60 63 66 |
| | 39,89 | 35 | 0,81 | 780 | 43 | 0,97 | 642 | 8450 | | | | |
| | 35,22 | 40 | 0,88 | 689 | 48 | 1,06 | 567 | 8400 | | | | |
| | 31,31 | 45 | 0,95 | 612 | 54 | 1,14 | 504 | 8400 | | | | |
| | 27,97 | 50 | 1,05 | 547 | 61 | 1,26 | 450 | 8300 | | | | |
| | 25,10 | 56 | 1,18 | 491 | 68 | 1,41 | 404 | 8300 | | | | |
| | 22,59 | 62 | 1,28 | 442 | 75 | 1,53 | 364 | 8200 | | | | |
| | 21,39 | 65 | 1,25 | 425 | 79 | 1,50 | 350 | 8200 | | | | |
| | 19,02 | 74 | 1,38 | 378 | 89 | 1,65 | 311 | 8150 | | | | |
| | 17,03 | 82 | 1,54 | 338 | 100 | 1,85 | 279 | 8100 | iRAM iRFM iRAFM | 721 / 100 L 4b | 229 230 231 | 58 61 64 |
| | 15,40 | 91 | 1,69 | 306 | 110 | 2,02 | 252 | 8100 | | | | |
| | 13,73 | 102 | 1,76 | 273 | 124 | 2,11 | 225 | 8000 | | | | |
| | 12,13 | 115 | 2,05 | 241 | 140 | 2,46 | 198 | 8000 | | | | |
| | 11,17 | 125 | 2,10 | 222 | 152 | 2,52 | 183 | 8000 | | | | |
| | 9,866 | 142 | 2,40 | 196 | 172 | 2,88 | 161 | 7900 | | | | |
| | 8,769 | 160 | 2,50 | 174 | 194 | 3,00 | 143 | 7900 | | | | |
| | 7,834 | 179 | 2,55 | 156 | 217 | 3,06 | 128 | 7900 | | | | |
| | 7,029 | 199 | 2,86 | 140 | 242 | 3,43 | 115 | 7800 | | | | |
| | 6,327 | 221 | 3,15 | 126 | 269 | 3,78 | 103 | 7800 | iRAM iRFM iRAFM | 63 / 100 L 4b | 211 212 213 | 45 50 51 |
| | 29,85 | 47 | 0,81 | 584 | 57 | 0,97 | 481 | 4300 | | | | |
| | 25,16 | 56 | 0,95 | 492 | 68 | 1,14 | 405 | 4300 | | | | |
| | 21,50 | 65 | 1,12 | 420 | 79 | 1,34 | 346 | 4300 | | | | |
| | 20,53 | 68 | 1,17 | 402 | 83 | 1,41 | 331 | 4300 | | | | |
| | 18,18 | 77 | 1,32 | 356 | 94 | 1,59 | 293 | 4300 | | | | |
| | 15,59 | 90 | 1,50 | 305 | 109 | 1,80 | 251 | 4300 | | | | |
| | 13,81 | 101 | 1,68 | 270 | 123 | 2,01 | 222 | 4300 | | | | |
| | 13,48 | 104 | 1,53 | 268 | 126 | 1,83 | 220 | 3750 | | | | |
| | 12,21 | 115 | 1,60 | 242 | 139 | 1,92 | 200 | 3750 | iRAM iRFM iRAFM | 62 / 100 L 4b | 211 212 213 | 46 51 52 |
| | 11,10 | 126 | 1,75 | 220 | 153 | 2,10 | 182 | 3750 | | | | |
| | 10,07 | 139 | 1,91 | 200 | 169 | 2,29 | 165 | 3750 | | | | |
| 9,358 | 150 | 1,80 | 186 | 182 | 2,16 | 153 | 3750 | | | | | |
| 8,510 | 165 | 1,91 | 169 | 200 | 2,29 | 139 | 3750 | | | | | |
| 7,673 | 182 | 1,98 | 152 | 222 | 2,38 | 125 | 3750 | | | | | |
| 7,108 | 197 | 2,13 | 141 | 239 | 2,55 | 116 | 3750 | | | | | |
| 6,480 | 216 | 2,20 | 129 | 262 | 2,64 | 106 | 3750 | | | | | |
| 5,992 | 234 | 2,35 | 119 | 284 | 2,82 | 98 | 3750 | | | | | |
| 5,723 | 245 | 3,90 | 114 | 297 | 4,68 | 94 | 3750 | | | | | |
| 5,325 | 263 | 3,90 | 106 | 319 | 4,68 | 87 | 3750 | | | | | |
| 5,060 | 277 | 4,20 | 100 | 336 | 5,04 | 83 | 3750 | | | | | |
| 4,499 | 311 | 4,50 | 89 | 378 | 5,40 | 74 | 3750 | | | | | |
| 3,998 | 350 | 4,77 | 79 | 425 | 5,72 | 65 | 3750 | | | | | |
| 3,711 | 377 | 3,37 | 74 | 458 | 4,05 | 61 | 3750 | | | | | |
| 3,287 | 426 | 3,45 | 65 | 517 | 4,14 | 54 | 3750 | | | | | |
| 2,917 | 480 | 3,52 | 58 | 583 | 4,22 | 48 | 3750 | | | | | |
| 2,592 | 540 | 3,52 | 51 | 656 | 4,22 | 42 | 3750 | | | | | |
| 2,444 | 573 | 3,52 | 49 | 696 | 4,22 | 40 | 3750 | | | | | |





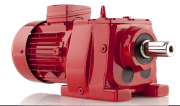
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|-----------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 3 4 | 29,85 | 47 | 0,81 | 584 | 57 | 0,97 | 481 | 4300 | íRAM íRFM íRAFM | 631 / 100 L 4b | 193 194 195 | 49 54 55 |
| | 25,16 | 56 | 0,95 | 492 | 68 | 1,14 | 405 | 4300 | | | | |
| | 21,50 | 65 | 1,12 | 420 | 79 | 1,34 | 346 | 4300 | | | | |
| | 20,53 | 68 | 1,17 | 402 | 83 | 1,41 | 331 | 4300 | | | | |
| | 18,18 | 77 | 1,32 | 356 | 94 | 1,59 | 293 | 4300 | | | | |
| | 15,59 | 90 | 1,50 | 305 | 109 | 1,80 | 251 | 4300 | | | | |
| | 13,81 | 101 | 1,68 | 270 | 123 | 2,01 | 222 | 4300 | | | | |
| | 13,48 | 104 | 1,53 | 268 | 126 | 1,83 | 220 | 3750 | íRAM íRFM íRAFM | 621 / 100 L 4b | 193 194 195 | 44 49 50 |
| | 12,21 | 115 | 1,60 | 242 | 139 | 1,92 | 200 | 3750 | | | | |
| | 11,10 | 126 | 1,75 | 220 | 153 | 2,10 | 182 | 3750 | | | | |
| | 10,07 | 139 | 1,91 | 200 | 169 | 2,29 | 165 | 3750 | | | | |
| | 9,358 | 150 | 1,80 | 186 | 182 | 2,16 | 153 | 3750 | | | | |
| | 8,510 | 165 | 1,91 | 169 | 200 | 2,29 | 139 | 3750 | | | | |
| | 7,673 | 182 | 1,98 | 152 | 222 | 2,38 | 125 | 3750 | | | | |
| | 7,108 | 197 | 2,13 | 141 | 239 | 2,55 | 116 | 3750 | | | | |
| | 6,480 | 216 | 2,20 | 129 | 262 | 2,64 | 106 | 3750 | | | | |
| | 5,992 | 234 | 2,35 | 119 | 284 | 2,82 | 98 | 3750 | | | | |
| | 5,723 | 245 | 3,90 | 114 | 297 | 4,68 | 94 | 3750 | | | | |
| | 5,325 | 263 | 3,90 | 106 | 319 | 4,68 | 87 | 3750 | | | | |
| | 5,060 | 277 | 4,20 | 100 | 336 | 5,04 | 83 | 3750 | | | | |
| | 4,499 | 311 | 4,50 | 89 | 378 | 5,40 | 74 | 3750 | | | | |
| | 3,998 | 350 | 4,77 | 79 | 425 | 5,72 | 65 | 3750 | | | | |
| | 3,711 | 377 | 3,37 | 74 | 458 | 4,05 | 61 | 3750 | | | | |
| | 3,287 | 426 | 3,45 | 65 | 517 | 4,14 | 54 | 3750 | | | | |
| | 2,917 | 480 | 3,52 | 58 | 583 | 4,22 | 48 | 3750 | | | | |
| | 2,592 | 540 | 3,52 | 51 | 656 | 4,22 | 42 | 3750 | | | | |
| | 2,444 | 573 | 3,52 | 49 | 696 | 4,22 | 40 | 3750 | | | | |
| | 8,888 | 158 | 0,84 | 176 | 191 | 1,01 | 145 | 1950 | íRAM íRFM íRAFM | 52 / 100 L 4b | 181 182 183 | 38 40 41 |
| | 7,974 | 176 | 0,88 | 158 | 213 | 1,06 | 130 | 1900 | | | | |
| | 7,178 | 195 | 0,92 | 143 | 237 | 1,10 | 117 | 1850 | | | | |
| | 6,479 | 216 | 0,95 | 129 | 262 | 1,14 | 106 | 1850 | | | | |
| | 5,821 | 241 | 0,99 | 116 | 292 | 1,19 | 95 | 1850 | | | | |
| | 5,254 | 266 | 1,03 | 104 | 324 | 1,23 | 86 | 1800 | | | | |
| | 5,032 | 278 | 1,06 | 100 | 338 | 1,28 | 82 | 1800 | | | | |
| | 4,515 | 310 | 1,17 | 90 | 377 | 1,41 | 74 | 1750 | | | | |
| | 4,064 | 344 | 1,25 | 81 | 418 | 1,49 | 66 | 1750 | | | | |
| | 3,668 | 382 | 1,32 | 73 | 463 | 1,58 | 60 | 1750 | | | | |
| | 3,317 | 422 | 1,43 | 66 | 513 | 1,72 | 54 | 1750 | | | | |
| | 3,059 | 458 | 1,43 | 61 | 556 | 1,72 | 50 | 1750 | | | | |
| | 2,906 | 482 | 1,50 | 58 | 585 | 1,81 | 48 | 1750 | | | | |
| | 2,572 | 544 | 1,62 | 51 | 661 | 1,94 | 42 | 1750 | | | | |
| | 10,56 | 265 | 1,43 | 105 | 322 | 1,72 | 86 | 1750 | | | | |
| | 9,470 | 296 | 1,58 | 94 | 359 | 1,89 | 77 | 1700 | | | | |
| | 8,888 | 315 | 1,54 | 88 | 383 | 1,85 | 73 | 1700 | | | | |
| 7,974 | 351 | 1,54 | 79 | 426 | 1,85 | 65 | 1650 | | | | | |
| 7,178 | 390 | 1,61 | 71 | 474 | 1,94 | 59 | 1600 | | | | | |
| 6,479 | 432 | 1,72 | 64 | 525 | 2,07 | 53 | 1600 | | | | | |
| 5,821 | 481 | 1,72 | 58 | 584 | 2,07 | 48 | 1550 | | | | | |
| 5,254 | 533 | 1,83 | 52 | 647 | 2,20 | 43 | 1550 | | | | | |
| 5,032 | 556 | 1,98 | 50 | 676 | 2,38 | 41 | 1500 | | | | | |
| 4,515 | 620 | 2,20 | 45 | 753 | 2,64 | 37 | 1500 | | | | | |
| 4,064 | 689 | 2,30 | 40 | 837 | 2,76 | 33 | 1400 | | | | | |
| 3,668 | 763 | 2,45 | 36 | 927 | 2,94 | 30 | 1400 | | | | | |
| 3,317 | 844 | 2,60 | 33 | 1025 | 3,12 | 27 | 1350 | | | | | |



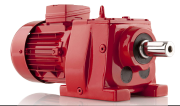
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------------|-------------------|----------------------|-----------------------|----------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg | | | | |
| 4 5,5 | 784 | 1,8 | 0,90 | 20140 | 2,2 | 1,08 | 16586 | 110000 | iRAM iRFM iRAFM | 154 / 112 M 4b | 367 368 369 | 1035 1085 1105 | | | | |
| | 695 | 2,0 | 1,01 | 17860 | 2,4 | 1,21 | 14709 | 110000 | | | | | | | | |
| | 612 | 2,3 | 1,16 | 15726 | 2,8 | 1,39 | 12951 | 110000 | | | | | | | | |
| | 549 | 2,6 | 1,28 | 14095 | 3,1 | 1,54 | 11608 | 110000 | | | | | | | | |
| | 495 | 2,8 | 1,43 | 12725 | 3,4 | 1,72 | 10480 | 110000 | | | | | | | | |
| | 432 | 3,2 | 1,05 | 11093 | 3,9 | 1,26 | 9136 | 110000 | | | | | | | | |
| | 362 | 3,9 | 1,93 | 9294 | 4,7 | 2,32 | 7654 | 110000 | | | | | | | | |
| | 321 | 4,4 | 2,20 | 8254 | 5,3 | 2,64 | 6797 | 110000 | | | | | | | | |
| | 292 | 4,8 | 2,40 | 7491 | 5,8 | 2,88 | 6169 | 110000 | | | | | | | | |
| | 264 | 5,3 | 2,70 | 6790 | 6,4 | 3,24 | 5592 | 110000 | | | | | | | | |
| | 230 | 6,1 | 3,10 | 5900 | 7,4 | 3,72 | 4859 | 110000 | | | | | | | | |
| | 438 | 2,1 | 0,77 | 17500 | 2,5 | 0,92 | 14318 | 60000 | | | | | iRAM iRFM iRAFM | 144 / 132 M 6a | 343 344 345 | 581 595 621 |
| | 384 | 2,3 | 0,85 | 15355 | 2,9 | 1,02 | 12563 | 60000 | iRAM iRFM iRAFM | 144 / 112 M 4b | 343 344 345 | 562 576 602 | | | | |
| | 546 | 2,6 | 0,98 | 14012 | 3,1 | 1,17 | 11539 | 60000 | | | | | | | | |
| | 488 | 2,9 | 1,09 | 12523 | 3,5 | 1,31 | 10313 | 60000 | | | | | | | | |
| | 438 | 3,2 | 1,20 | 11250 | 3,9 | 1,44 | 9264 | 60000 | | | | | | | | |
| | 384 | 3,6 | 1,35 | 9871 | 4,4 | 1,62 | 8129 | 60000 | | | | | | | | |
| | 345 | 4,1 | 1,54 | 8850 | 4,9 | 1,85 | 7288 | 60000 | | | | | | | | |
| | 308 | 4,6 | 1,71 | 7899 | 5,5 | 2,05 | 6505 | 60000 | | | | | | | | |
| | 276 | 5,1 | 1,87 | 7089 | 6,2 | 2,25 | 5838 | 60000 | | | | | | | | |
| | 263 | 5,3 | 1,98 | 6753 | 6,5 | 2,38 | 5562 | 60000 | | | | | | | | |
| | 236 | 5,9 | 2,18 | 6061 | 7,2 | 2,61 | 4991 | 60000 | | | | | | | | |
| | 213 | 6,6 | 2,40 | 5464 | 8,0 | 2,88 | 4499 | 60000 | | | | | | | | |
| | 192 | 7,3 | 2,48 | 4943 | 8,8 | 2,97 | 4071 | 60000 | | | | | | | | |
| | 175 | 8,0 | 2,93 | 4486 | 9,7 | 3,51 | 3695 | 60000 | iRAM iRFM iRAFM | 143 / 132 M 6a | 337 338 339 | 519 533 559 | | | | |
| | 161 | 5,6 | 2,00 | 6550 | 6,8 | 2,40 | 5359 | 60000 | | | | | | | | |
| | 146 | 6,1 | 2,20 | 5937 | 7,5 | 2,64 | 4858 | 60000 | | | | | | | | |
| | 133 | 6,8 | 2,50 | 5386 | 8,3 | 3,00 | 4407 | 60000 | | | | | | | | |
| | 103 | 8,7 | 3,10 | 4131 | 11 | 3,72 | 3380 | 60000 | iRAM iRFM iRAFM | 123 iR 72 / 112 M 4b | 331 332 333 | 364 366 394 | | | | |
| | 436 | 3,2 | 0,88 | 11031 | 3,9 | 1,06 | 9084 | 50000 | | | | | | | | |
| | 388 | 3,6 | 0,96 | 9816 | 4,4 | 1,16 | 8084 | 50000 | | | | | | | | |
| | 400 | 3,5 | 0,85 | 10286 | 4,2 | 1,02 | 8471 | 47750 | iRAM iRFM iRAFM | 124 / 112 M 4b | 325 326 327 | 387 389 417 | | | | |
| | 352 | 4,0 | 0,96 | 9052 | 4,8 | 1,16 | 7454 | 47750 | | | | | | | | |
| | 313 | 4,5 | 1,07 | 8032 | 5,4 | 1,29 | 6614 | 47750 | | | | | | | | |
| | 279 | 5,0 | 1,21 | 7175 | 6,1 | 1,45 | 5909 | 47750 | | | | | | | | |
| | 251 | 5,6 | 1,35 | 6445 | 6,8 | 1,62 | 5308 | 46900 | | | | | | | | |
| | 226 | 6,2 | 1,50 | 5816 | 7,5 | 1,80 | 4790 | 46900 | | | | | | | | |
| | 215 | 6,5 | 1,54 | 5526 | 7,9 | 1,84 | 4550 | 46900 | | | | | | | | |
| | 186 | 4,8 | 1,09 | 7550 | 5,9 | 1,31 | 6177 | 47750 | | | | | | | | |
| | 167 | 5,4 | 1,22 | 6777 | 6,6 | 1,46 | 5545 | 47750 | | | | | | | | |
| | 151 | 6,0 | 1,34 | 6129 | 7,3 | 1,61 | 5014 | 47750 | | | | | | | | |
| | 122 | 7,3 | 1,80 | 4968 | 9,0 | 2,16 | 4065 | 47750 | | | | | iRAM iRFM iRAFM | 123 / 132 M 6a | 319 320 321 | 344 346 374 |
| | 112 | 8,1 | 1,88 | 4533 | 9,8 | 2,25 | 3709 | 46900 | | | | | | | | |
| | 100 | 9,0 | 2,10 | 4069 | 11 | 2,52 | 3329 | 46900 | | | | | | | | |
| | 90,71 | 9,9 | 2,25 | 3680 | 12 | 2,70 | 3011 | 46900 | iRAM iRFM iRAFM | 103 / 112 M 4b | 301 302 303 | 240 243 265 | | | | |
| 75,77 | 12 | 2,78 | 3073 | 15 | 3,33 | 2515 | 46750 | | | | | | | | | |
| 185 | 7,6 | 0,86 | 4813 | 9,2 | 1,03 | 3964 | 29100 | | | | | | | | | |
| 165 | 8,5 | 0,96 | 4315 | 10 | 1,15 | 3554 | 29100 | | | | | | | | | |
| 141 | 10,0 | 1,16 | 3669 | 12 | 1,39 | 3021 | 29100 | | | | | | | | | |
| 126 | 11 | 1,27 | 3290 | 13 | 1,52 | 2709 | 29100 | | | | | | | | | |
| 113 | 12 | 1,43 | 2952 | 15 | 1,72 | 2431 | 29000 | | | | | | | | | |
| 104 | 14 | 1,54 | 2699 | 16 | 1,85 | 2223 | 29000 | | | | | | | | | |
| 94,54 | 15 | 1,71 | 2465 | 18 | 2,05 | 2030 | 29000 | | | | | | | | | |
| 86,72 | 16 | 1,82 | 2261 | 20 | 2,18 | 1862 | 29000 | | | | | | | | | |
| 77,32 | 18 | 2,04 | 2016 | 22 | 2,44 | 1660 | 29000 | | | | | | | | | |



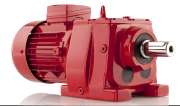
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo |   kg | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|--|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 4 5,5 | 68,28 | 21 | 2,31 | 1781 | 25 | 2,77 | 1466 | 29000 | iRAM iRFM iRAFM | 103 / 112 M 4b | 301 | 240 |
| | 60,69 | 23 | 2,59 | 1583 | 28 | 3,10 | 1303 | 28800 | | | 302 | 243 |
| | 54,22 | 26 | 3,00 | 1414 | 31 | 3,60 | 1164 | 28800 | | | 303 | 265 |
| | 48,65 | 29 | 3,30 | 1269 | 35 | 3,96 | 1045 | 28800 | iRAM iRFM iRAFM | 93 / 112 M 4b | 283 | 155 |
| | 43,79 | 32 | 3,68 | 1142 | 39 | 4,41 | 940 | 28800 | | | | |
| | 131 | 11 | 0,82 | 3421 | 13 | 0,98 | 2817 | 21200 | | | | |
| | 121 | 12 | 0,88 | 3147 | 14 | 1,06 | 2592 | 21200 | | | | |
| | 110 | 13 | 0,97 | 2869 | 15 | 1,17 | 2363 | 21200 | | | | |
| | 96,96 | 14 | 1,10 | 2528 | 18 | 1,32 | 2082 | 21200 | | | | |
| | 86,17 | 16 | 1,24 | 2247 | 20 | 1,49 | 1850 | 21200 | | | | |
| | 77,10 | 18 | 1,38 | 2011 | 22 | 1,65 | 1656 | 21000 | | | | |
| | 68,66 | 20 | 1,46 | 1790 | 25 | 1,76 | 1474 | 21000 | | | | |
| | 60,50 | 23 | 1,65 | 1578 | 28 | 1,98 | 1299 | 21000 | | | | |
| | 53,77 | 26 | 1,95 | 1402 | 32 | 2,34 | 1155 | 20900 | | | | |
| | 48,11 | 29 | 2,18 | 1255 | 35 | 2,61 | 1033 | 20900 | | | | |
| | 43,29 | 32 | 2,48 | 1129 | 39 | 2,97 | 930 | 20900 | | | | |
| | 39,14 | 36 | 2,70 | 1021 | 43 | 3,23 | 840 | 20800 | | | | |
| | 35,52 | 39 | 2,97 | 926 | 48 | 3,56 | 763 | 20800 | | | | |
| | 32,34 | 43 | 3,30 | 843 | 53 | 3,96 | 695 | 20700 | | | | |
| | 29,53 | 47 | 3,60 | 770 | 58 | 4,32 | 634 | 20700 | | | | |
| | 23,38 | 60 | 4,30 | 619 | 73 | 5,16 | 510 | 18000 | | | | |
| | 20,60 | 68 | 4,50 | 545 | 83 | 5,40 | 449 | 18000 | | | | |
| | 18,31 | 76 | 4,90 | 485 | 93 | 5,88 | 399 | 18000 | | | | |
| | 66,18 | 21 | 0,85 | 1726 | 26 | 1,02 | 1421 | 15400 | | | | |
| | 59,39 | 24 | 0,96 | 1549 | 29 | 1,15 | 1275 | 15400 | | | | |
| | 53,54 | 26 | 1,03 | 1396 | 32 | 1,24 | 1150 | 15400 | | | | |
| | 47,59 | 29 | 1,18 | 1241 | 36 | 1,42 | 1022 | 15150 | | | | |
| | 45,93 | 30 | 1,20 | 1198 | 37 | 1,44 | 986 | 15150 | | | | |
| | 41,22 | 34 | 1,35 | 1075 | 41 | 1,62 | 885 | 15150 | | | | |
| | 37,16 | 38 | 1,49 | 969 | 46 | 1,78 | 798 | 15150 | | | | |
| | 33,03 | 42 | 1,76 | 861 | 51 | 2,11 | 709 | 15000 | | | | |
| | 30,08 | 47 | 1,91 | 784 | 57 | 2,30 | 646 | 15000 | | | | |
| | 27,12 | 52 | 2,06 | 707 | 63 | 2,48 | 582 | 14950 | | | | |
| | 24,54 | 57 | 2,33 | 640 | 69 | 2,79 | 527 | 14700 | | | | |
| | 22,27 | 63 | 2,55 | 581 | 76 | 3,06 | 478 | 14350 | | | | |
| | 20,26 | 69 | 2,75 | 528 | 84 | 3,30 | 435 | 14250 | | | | |
| | 18,47 | 76 | 2,97 | 482 | 92 | 3,56 | 397 | 14150 | | | | |
| | 16,86 | 83 | 3,14 | 440 | 101 | 3,76 | 362 | 13600 | | | | |
| | 15,41 | 91 | 3,19 | 402 | 110 | 3,83 | 331 | 13600 | | | | |
| | 14,90 | 94 | 3,30 | 388 | 114 | 3,96 | 320 | 13300 | | | | |
| | 13,24 | 106 | 3,60 | 345 | 128 | 4,32 | 284 | 13100 | | | | |
| | 11,88 | 118 | 3,75 | 310 | 143 | 4,50 | 255 | 13000 | | | | |
| | 10,71 | 131 | 4,20 | 279 | 159 | 5,04 | 230 | 13000 | | | | |
| | 9,689 | 144 | 4,65 | 253 | 175 | 5,58 | 208 | 13000 | | | | |
| | 37,38 | 37 | 0,85 | 975 | 45 | 1,02 | 803 | 9300 | | | | |
| | 31,16 | 45 | 0,96 | 813 | 55 | 1,16 | 669 | 9300 | | | | |
| | 27,84 | 50 | 1,07 | 726 | 61 | 1,29 | 598 | 9300 | | | | |
| | 24,98 | 56 | 1,16 | 651 | 68 | 1,39 | 536 | 9300 | | | | |
| | 22,48 | 62 | 1,35 | 586 | 76 | 1,62 | 483 | 9300 | | | | |
| | 20,29 | 69 | 1,51 | 529 | 84 | 1,82 | 436 | 9300 | | | | |
| 18,35 | 76 | 1,61 | 479 | 93 | 1,94 | 394 | 9300 | | | | | |
| 16,62 | 84 | 1,76 | 433 | 102 | 2,11 | 357 | 9300 | | | | | |
| 15,07 | 93 | 2,15 | 393 | 113 | 2,57 | 324 | 9300 | | | | | |
| 13,53 | 104 | 2,04 | 358 | 126 | 2,45 | 295 | 8350 | | | | | |
| 12,02 | 116 | 2,16 | 318 | 141 | 2,59 | 262 | 8350 | | | | | |
| 10,74 | 130 | 2,40 | 284 | 158 | 2,88 | 234 | 8350 | | | | | |
| 9,337 | 150 | 2,55 | 247 | 182 | 3,06 | 204 | 8350 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 72 / 112 M 4b | 247 | 66 |
| | | | | | | | | | | | 248 | 69 |
| | | | | | | | | | | | 249 | 72 |



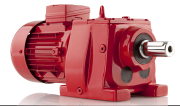
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 4 5,5 | 8,333 | 168 | 2,72 | 221 | 204 | 3,26 | 182 | 8350 | iRAM iRFM iRAFM | 72 / 112 M 4b | 247 | 66 |
| | 7,476 | 187 | 2,93 | 198 | 227 | 3,51 | 163 | 8350 | | | 248 | 69 |
| | 6,730 | 208 | 3,08 | 178 | 253 | 3,69 | 147 | 8350 | | | 249 | 72 |
| | 6,074 | 230 | 3,60 | 161 | 280 | 4,32 | 132 | 8350 | iRAM iRFM iRAFM | 721 / 112 M 4b | 229 230 231 | 64 67 70 |
| | 19,02 | 74 | 1,03 | 504 | 89 | 1,24 | 415 | 8000 | | | | |
| | 17,03 | 82 | 1,16 | 451 | 100 | 1,39 | 371 | 7950 | | | | |
| | 15,40 | 91 | 1,27 | 408 | 110 | 1,52 | 336 | 7950 | | | | |
| | 13,73 | 102 | 1,32 | 364 | 124 | 1,58 | 299 | 7850 | | | | |
| | 12,13 | 115 | 1,54 | 321 | 140 | 1,85 | 264 | 7850 | | | | |
| | 11,17 | 125 | 1,58 | 296 | 152 | 1,89 | 244 | 7850 | | | | |
| | 9,866 | 142 | 1,80 | 261 | 172 | 2,16 | 215 | 7750 | | | | |
| | 8,769 | 160 | 1,88 | 232 | 194 | 2,25 | 191 | 7750 | | | | |
| | 7,834 | 179 | 1,91 | 207 | 217 | 2,30 | 171 | 7750 | | | | |
| | 7,029 | 199 | 2,15 | 186 | 242 | 2,57 | 153 | 7750 | | | | |
| | 6,327 | 221 | 2,37 | 167 | 269 | 2,84 | 138 | 7650 | | | | |
| | 5,710 | 245 | 2,59 | 151 | 298 | 3,10 | 124 | 7650 | | | | |
| | 5,164 | 271 | 2,86 | 137 | 329 | 3,43 | 113 | 7600 | | | | |
| | 4,677 | 299 | 3,00 | 124 | 363 | 3,60 | 102 | 7550 | | | | |
| | 4,240 | 330 | 3,08 | 112 | 401 | 3,69 | 92 | 7550 | | | | |
| | 3,809 | 368 | 3,08 | 101 | 446 | 3,69 | 83 | 7450 | | | | |
| | 3,438 | 407 | 3,08 | 91 | 494 | 3,69 | 75 | 7450 | | | | |
| | 3,109 | 450 | 3,08 | 82 | 547 | 3,69 | 68 | 7450 | | | | |
| | 2,816 | 497 | 3,08 | 75 | 604 | 3,69 | 61 | 7400 | | | | |
| | 2,553 | 548 | 3,08 | 68 | 666 | 3,69 | 56 | 7400 | | | | |
| | 21,50 | 65 | 0,84 | 561 | 79 | 1,01 | 462 | 3600 | iRAM iRFM iRAFM | 63 / 112 M 4b | 211 | 51 |
| | 20,53 | 68 | 0,88 | 535 | 83 | 1,06 | 441 | 3600 | | | 212 | 56 |
| | 18,18 | 77 | 0,99 | 474 | 94 | 1,19 | 390 | 3600 | | | 213 | 57 |
| | 15,59 | 90 | 1,13 | 407 | 109 | 1,35 | 335 | 3600 | iRAM iRFM iRAFM | 62 / 112 M 4b | 211 212 213 | 52 57 58 |
| | 13,81 | 101 | 1,26 | 360 | 123 | 1,51 | 296 | 3600 | | | | |
| | 13,48 | 104 | 1,14 | 357 | 126 | 1,37 | 294 | 3400 | | | | |
| | 12,21 | 115 | 1,20 | 323 | 139 | 1,44 | 266 | 3400 | | | | |
| | 11,10 | 126 | 1,31 | 294 | 153 | 1,58 | 242 | 3400 | | | | |
| | 10,07 | 139 | 1,43 | 267 | 169 | 1,72 | 220 | 3400 | | | | |
| | 9,358 | 150 | 1,35 | 248 | 182 | 1,62 | 204 | 3400 | | | | |
| | 8,510 | 165 | 1,43 | 225 | 200 | 1,72 | 186 | 3400 | | | | |
| | 7,673 | 182 | 1,49 | 203 | 222 | 1,78 | 167 | 3400 | | | | |
| | 7,108 | 197 | 1,60 | 188 | 239 | 1,91 | 155 | 3400 | | | | |
| | 6,480 | 216 | 1,65 | 172 | 262 | 1,98 | 141 | 3400 | | | | |
| | 5,992 | 234 | 1,76 | 159 | 284 | 2,12 | 131 | 3400 | | | | |
| | 5,723 | 245 | 2,93 | 152 | 297 | 3,51 | 125 | 3400 | | | | |
| | 5,325 | 263 | 2,93 | 141 | 319 | 3,51 | 116 | 3400 | | | | |
| | 5,060 | 277 | 3,15 | 134 | 336 | 3,78 | 110 | 3400 | | | | |
| 4,499 | 311 | 3,38 | 119 | 378 | 4,05 | 98 | 3400 | | | | | |
| 3,998 | 350 | 3,58 | 106 | 425 | 4,29 | 87 | 3400 | | | | | |
| 3,711 | 377 | 2,53 | 98 | 458 | 3,04 | 81 | 3400 | | | | | |
| 3,287 | 426 | 2,59 | 87 | 517 | 3,10 | 72 | 3400 | | | | | |
| 2,917 | 480 | 2,64 | 77 | 583 | 3,17 | 64 | 3400 | | | | | |
| 2,592 | 540 | 2,64 | 69 | 656 | 3,17 | 57 | 3400 | | | | | |
| 2,444 | 573 | 2,64 | 65 | 696 | 3,17 | 53 | 3400 | | | | | |
| 21,50 | 65 | 0,84 | 561 | 79 | 1,01 | 462 | 3600 | iRAM iRFM iRAFM | 631 / 112 M 4b | 193 | 55 | |
| 20,53 | 68 | 0,88 | 535 | 83 | 1,06 | 441 | 3600 | | | 194 | 60 | |
| 18,18 | 77 | 0,99 | 474 | 94 | 1,19 | 390 | 3600 | | | 195 | 61 | |
| 15,59 | 90 | 1,13 | 407 | 109 | 1,35 | 335 | 3600 | | | | | |
| 13,81 | 101 | 1,26 | 360 | 123 | 1,51 | 296 | 3600 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 4 5,5 | 13,48 | 104 | 1,14 | 357 | 126 | 1,37 | 294 | 3400 | iRAM iRFM iRAFM | 621 / 112 M 4b | 193 194 195 | 50 55 56 |
| | 12,21 | 115 | 1,20 | 323 | 139 | 1,44 | 266 | 3400 | | | | |
| | 11,10 | 126 | 1,31 | 294 | 153 | 1,58 | 242 | 3400 | | | | |
| | 10,07 | 139 | 1,43 | 267 | 169 | 1,72 | 220 | 3400 | | | | |
| | 9,358 | 150 | 1,35 | 248 | 182 | 1,62 | 204 | 3400 | | | | |
| | 8,510 | 165 | 1,43 | 225 | 200 | 1,72 | 186 | 3400 | | | | |
| | 7,673 | 182 | 1,49 | 203 | 222 | 1,78 | 167 | 3400 | | | | |
| | 7,108 | 197 | 1,60 | 188 | 239 | 1,91 | 155 | 3400 | | | | |
| | 6,480 | 216 | 1,65 | 172 | 262 | 1,98 | 141 | 3400 | | | | |
| | 5,992 | 234 | 1,76 | 159 | 284 | 2,12 | 131 | 3400 | | | | |
| | 5,723 | 245 | 2,93 | 152 | 297 | 3,51 | 125 | 3400 | | | | |
| | 5,325 | 263 | 2,93 | 141 | 319 | 3,51 | 116 | 3400 | | | | |
| | 5,060 | 277 | 3,15 | 134 | 336 | 3,78 | 110 | 3400 | | | | |
| | 4,499 | 311 | 3,38 | 119 | 378 | 4,05 | 98 | 3400 | | | | |
| | 3,998 | 350 | 3,58 | 106 | 425 | 4,29 | 87 | 3400 | | | | |
| | 3,711 | 377 | 2,53 | 98 | 458 | 3,04 | 81 | 3400 | | | | |
| 3,287 | 426 | 2,59 | 87 | 517 | 3,10 | 72 | 3400 | | | | | |
| 2,917 | 480 | 2,64 | 77 | 583 | 3,17 | 64 | 3400 | | | | | |
| 2,592 | 540 | 2,64 | 69 | 656 | 3,17 | 57 | 3400 | | | | | |
| 2,444 | 573 | 2,64 | 65 | 696 | 3,17 | 53 | 3400 | | | | | |
| 5,5 7,5 | 612 | 2,3 | 0,85 | 21624 | 2,8 | 1,02 | 17808 | 110000 | iRAM iRFM iRAFM | 154 / 132 S 4c | 367 368 369 | 1046 1096 1116 |
| | 549 | 2,6 | 0,93 | 19381 | 3,1 | 1,12 | 15961 | 110000 | | | | |
| | 495 | 2,8 | 1,04 | 17497 | 3,4 | 1,25 | 14410 | 110000 | | | | |
| | 432 | 3,2 | 1,20 | 15253 | 3,9 | 1,44 | 12561 | 110000 | | | | |
| | 362 | 3,9 | 1,40 | 12779 | 4,7 | 1,68 | 10524 | 110000 | | | | |
| | 321 | 4,4 | 1,58 | 11349 | 5,3 | 1,90 | 9346 | 110000 | | | | |
| | 292 | 4,8 | 1,75 | 10301 | 5,8 | 2,10 | 8483 | 110000 | | | | |
| | 264 | 5,3 | 1,96 | 9337 | 6,4 | 2,35 | 7689 | 110000 | | | | |
| | 488 | 2,9 | 0,79 | 17219 | 3,5 | 0,95 | 14180 | 60000 | iRAM iRFM iRAFM | 144 / 132 S 4c | 343 344 345 | 573 587 613 |
| | 438 | 3,2 | 0,87 | 15468 | 3,9 | 1,05 | 12739 | 60000 | | | | |
| | 384 | 3,6 | 0,98 | 13572 | 4,4 | 1,18 | 11177 | 60000 | | | | |
| | 345 | 4,1 | 1,12 | 12169 | 4,9 | 1,35 | 10021 | 60000 | | | | |
| | 308 | 4,6 | 1,24 | 10861 | 5,5 | 1,49 | 8944 | 60000 | | | | |
| | 276 | 5,1 | 1,36 | 9747 | 6,2 | 1,63 | 8027 | 60000 | | | | |
| | 263 | 5,3 | 1,44 | 9286 | 6,5 | 1,73 | 7647 | 60000 | | | | |
| | 236 | 5,9 | 1,58 | 8333 | 7,2 | 1,90 | 6863 | 60000 | | | | |
| | 213 | 6,6 | 1,75 | 7512 | 8,0 | 2,09 | 6187 | 60000 | iRAM iRFM iRAFM | 143 / 132 M 6b | 337 338 339 | 532 546 572 |
| | 192 | 7,3 | 1,80 | 6797 | 8,8 | 2,16 | 5598 | 60000 | | | | |
| | 175 | 8,0 | 2,13 | 6169 | 9,7 | 2,55 | 5080 | 60000 | | | | |
| | 161 | 5,6 | 1,45 | 9007 | 6,8 | 1,75 | 7369 | 60000 | | | | |
| | 146 | 6,1 | 1,60 | 8164 | 7,5 | 1,92 | 6679 | 60000 | | | | |
| | 133 | 6,8 | 1,82 | 7406 | 8,3 | 2,18 | 6059 | 60000 | | | | |
| | 103 | 8,7 | 2,25 | 5767 | 11 | 2,71 | 4718 | 60000 | | | | |
| | 92,24 | 9,8 | 2,55 | 5144 | 12 | 3,05 | 4209 | 60000 | | | | |
| | 82,86 | 11 | 2,91 | 4622 | 13 | 3,49 | 3781 | 60000 | iRAM iRFM iRAFM | 124 / 132 S 4c | 325 326 327 | 398 400 428 |
| | 72,71 | 12 | 3,27 | 4055 | 15 | 3,93 | 3318 | 60000 | | | | |
| | 313 | 4,5 | 0,78 | 11044 | 5,4 | 0,94 | 9095 | 45210 | | | | |
| | 279 | 5,0 | 0,88 | 9866 | 6,1 | 1,06 | 8125 | 45210 | | | | |
| | 251 | 5,6 | 0,98 | 8862 | 6,8 | 1,18 | 7298 | 44490 | | | | |
| | 226 | 6,2 | 1,09 | 7997 | 7,5 | 1,31 | 6586 | 44200 | | | | |
| | 215 | 6,5 | 1,12 | 7598 | 7,9 | 1,34 | 6257 | 44100 | | | | |
| | 151 | 6,0 | 0,98 | 8427 | 7,3 | 1,17 | 6895 | 45210 | | | | |
| 122 | 7,3 | 1,31 | 6831 | 9,0 | 1,57 | 5589 | 45210 | iRAM iRFM iRAFM | 123 / 132 M 6b | 319 320 321 | 357 359 387 | |



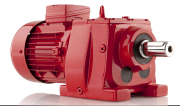
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 5,5 7,5 | 209 | 6,7 | 1,10 | 7500 | 8,1 | 1,32 | 6176 | 45210 | íRAM íRFM íRAFM | 123 / C112 M 4 | 319 320 321 | 326 328 356 |
| | 186 | 7,5 | 1,23 | 6673 | 9,1 | 1,48 | 5496 | 45210 | íRAM íRFM íRAFM | 123 / 132 S 4c | 319 320 321 | 336 338 366 |
| | 167 | 8,4 | 1,37 | 5991 | 10 | 1,64 | 4934 | 45210 | | | | |
| | 151 | 9,3 | 1,52 | 5417 | 11 | 1,82 | 4461 | 44490 | | | | |
| | 122 | 11 | 1,94 | 4391 | 14 | 2,33 | 3617 | 44200 | | | | |
| | 112 | 13 | 2,00 | 4007 | 15 | 2,40 | 3300 | 44100 | | | | |
| | 100 | 14 | 2,30 | 3597 | 17 | 2,76 | 2962 | 43800 | | | | |
| | 90,71 | 15 | 2,50 | 3252 | 19 | 3,00 | 2678 | 43700 | | | | |
| | 75,77 | 18 | 3,00 | 2717 | 22 | 3,60 | 2237 | 43570 | | | | |
| | 66,67 | 21 | 3,40 | 2391 | 25 | 4,08 | 1969 | 43180 | | | | |
| | 59,16 | 24 | 3,80 | 2121 | 29 | 4,56 | 1747 | 43180 | | | | |
| | 52,85 | 26 | 4,30 | 1895 | 32 | 5,16 | 1560 | 43180 | | | | |
| | 126 | 11 | 0,92 | 4523 | 13 | 1,10 | 3725 | 28500 | | | | |
| | 113 | 12 | 1,04 | 4058 | 15 | 1,25 | 3342 | 28500 | | | | |
| | 104 | 14 | 1,12 | 3711 | 16 | 1,34 | 3056 | 28500 | | | | |
| | 94,54 | 15 | 1,24 | 3390 | 18 | 1,49 | 2792 | 28500 | | | | |
| | 86,72 | 16 | 1,32 | 3109 | 20 | 1,58 | 2561 | 28300 | | | | |
| | 77,32 | 18 | 1,48 | 2772 | 22 | 1,78 | 2283 | 28300 | | | | |
| | 68,28 | 21 | 1,68 | 2448 | 25 | 2,02 | 2016 | 28300 | | | | |
| | 60,69 | 23 | 1,88 | 2176 | 28 | 2,26 | 1792 | 28300 | | | | |
| | 54,22 | 26 | 2,18 | 1944 | 31 | 2,62 | 1601 | 28000 | | | | |
| | 48,65 | 29 | 2,40 | 1744 | 35 | 2,88 | 1436 | 28000 | | | | |
| | 43,79 | 32 | 2,67 | 1570 | 39 | 3,21 | 1293 | 27900 | | | | |
| | 39,53 | 35 | 2,91 | 1417 | 43 | 3,49 | 1167 | 27900 | | | | |
| | 35,87 | 39 | 3,27 | 1286 | 47 | 3,93 | 1059 | 27900 | | | | |
| | 31,68 | 44 | 3,64 | 1136 | 54 | 4,36 | 935 | 27750 | | | | |
| | 96,96 | 14 | 0,80 | 3477 | 18 | 0,96 | 2863 | 20000 | | | | |
| | 86,17 | 16 | 0,90 | 3090 | 20 | 1,08 | 2544 | 20000 | | | | |
| | 77,10 | 18 | 1,00 | 2765 | 22 | 1,20 | 2277 | 20000 | | | | |
| | 68,66 | 20 | 1,06 | 2462 | 25 | 1,28 | 2027 | 20000 | | | | |
| | 60,50 | 23 | 1,20 | 2169 | 28 | 1,44 | 1787 | 20000 | | | | |
| | 53,77 | 26 | 1,42 | 1928 | 32 | 1,70 | 1588 | 20000 | | | | |
| | 48,11 | 29 | 1,58 | 1725 | 35 | 1,90 | 1421 | 20000 | | | | |
| | 43,29 | 32 | 1,80 | 1552 | 39 | 2,16 | 1278 | 20000 | | | | |
| | 39,14 | 36 | 1,96 | 1403 | 43 | 2,35 | 1156 | 19800 | | | | |
| | 35,52 | 39 | 2,16 | 1274 | 48 | 2,59 | 1049 | 19800 | | | | |
| | 32,34 | 43 | 2,40 | 1160 | 53 | 2,88 | 955 | 19800 | | | | |
| | 29,53 | 47 | 2,62 | 1059 | 58 | 3,14 | 872 | 19800 | | | | |
| | 27,01 | 52 | 2,84 | 969 | 63 | 3,40 | 798 | 19600 | | | | |
| | 24,76 | 57 | 3,11 | 888 | 69 | 3,73 | 731 | 19601 | | | | |
| | 20,09 | 70 | 3,80 | 720 | 85 | 4,56 | 593 | 19602 | | | | |
| | 16,85 | 83 | 4,50 | 604 | 101 | 5,40 | 498 | 19603 | | | | |
| | 23,38 | 60 | 3,13 | 851 | 73 | 3,75 | 701 | 17800 | | | | |
| | 20,60 | 68 | 3,27 | 750 | 83 | 3,93 | 618 | 17600 | | | | |
| | 18,31 | 76 | 3,56 | 667 | 93 | 4,28 | 549 | 17450 | | | | |
| 16,38 | 85 | 3,90 | 596 | 104 | 4,68 | 491 | 17250 | | | | | |
| 14,74 | 95 | 4,20 | 537 | 115 | 5,04 | 442 | 17100 | | | | | |
| 13,33 | 105 | 4,60 | 485 | 128 | 5,52 | 400 | 17000 | | | | | |
| 47,59 | 29 | 0,86 | 1706 | 36 | 1,03 | 1405 | 14800 | | | | | |
| 45,93 | 30 | 0,87 | 1647 | 37 | 1,05 | 1356 | 14800 | | | | | |
| 41,22 | 34 | 0,98 | 1478 | 41 | 1,18 | 1217 | 14700 | | | | | |
| 37,16 | 38 | 1,08 | 1332 | 46 | 1,30 | 1097 | 14600 | | | | | |
| 33,03 | 42 | 1,28 | 1184 | 51 | 1,54 | 975 | 14500 | | | | | |
| 30,08 | 47 | 1,39 | 1079 | 57 | 1,67 | 888 | 14450 | | | | | |
| 27,12 | 52 | 1,50 | 972 | 63 | 1,80 | 801 | 14250 | | | | | |
| 24,54 | 57 | 1,69 | 880 | 69 | 2,03 | 725 | 14100 | | | | | |
| | | | | | | | | íRAM íRFM íRAFM | 92 / 132 S 4c | 283 284 285 | 161 171 181 | |
| | | | | | | | | íRAM íRFM íRAFM | 83 / 132 S 4c | 265 266 267 | 113 118 120 | |



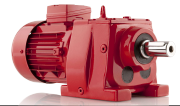
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|---------------|-----------------------|---------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | |
| 5,5 7,5 | 22,27 | 63 | 1,85 | 798 | 76 | 2,23 | 658 | 14000 | iRAM iRFM iRAFM | 83 / 132 S 4c | 265 | 113 | | |
| | 20,26 | 69 | 2,00 | 726 | 84 | 2,40 | 598 | 13750 | | | 266 | 118 | | |
| | 18,47 | 76 | 2,16 | 662 | 92 | 2,59 | 545 | 13350 | | | 267 | 120 | | |
| | 16,86 | 83 | 2,28 | 605 | 101 | 2,74 | 498 | 13050 | | | | | | |
| | 15,41 | 91 | 2,32 | 553 | 110 | 2,78 | 455 | 12800 | | | | | | |
| | 14,90 | 94 | 2,40 | 542 | 114 | 2,88 | 447 | 12800 | | | iRAM iRFM iRAFM | 82 / 132 S 4c | 265 | 106 |
| | 13,24 | 106 | 2,62 | 482 | 128 | 3,14 | 397 | 12200 | | | | | 266 | 111 |
| | 11,88 | 118 | 2,73 | 432 | 143 | 3,27 | 356 | 12000 | | | | | 267 | 113 |
| | 10,71 | 131 | 3,05 | 390 | 159 | 3,67 | 321 | 11900 | | | | | | |
| | 9,689 | 144 | 3,38 | 353 | 175 | 4,06 | 290 | 11650 | | | | | | |
| | 8,793 | 159 | 3,64 | 320 | 193 | 4,36 | 264 | 11250 | | | | | | |
| | 8,244 | 170 | 3,78 | 300 | 206 | 4,54 | 247 | 11100 | | | | | | |
| | 7,432 | 188 | 4,07 | 271 | 229 | 4,89 | 223 | 10900 | | | | | | |
| | 6,724 | 208 | 4,15 | 245 | 253 | 4,97 | 202 | 10800 | | | | | | |
| | 6,103 | 229 | 4,44 | 222 | 279 | 5,32 | 183 | 10700 | | | | | | |
| | 5,552 | 252 | 4,58 | 202 | 306 | 5,50 | 166 | 10600 | | | | | | |
| | 5,061 | 277 | 4,73 | 184 | 336 | 5,67 | 152 | 10500 | iRAM iRFM iRAFM | 73 / 132 S 4c | | | 247 | 79 |
| | 22,48 | 62 | 0,98 | 806 | 76 | 1,18 | 664 | 8500 | | | 248 | 82 | | |
| | 20,29 | 69 | 1,10 | 728 | 84 | 1,32 | 599 | 8500 | | | 249 | 85 | | |
| | 18,35 | 76 | 1,17 | 658 | 93 | 1,41 | 542 | 8500 | | | | | | |
| | 16,62 | 84 | 1,28 | 596 | 102 | 1,54 | 491 | 8500 | | | | | | |
| | 15,07 | 93 | 1,56 | 540 | 113 | 1,87 | 445 | 8500 | | | | | | |
| | 13,53 | 104 | 1,49 | 492 | 126 | 1,78 | 405 | 7870 | | | | | | |
| | 12,02 | 116 | 1,57 | 438 | 141 | 1,88 | 360 | 7870 | | | | | | |
| | 10,74 | 130 | 1,75 | 391 | 158 | 2,09 | 322 | 7870 | | | | | | |
| | 9,337 | 150 | 1,85 | 340 | 182 | 2,23 | 280 | 7870 | | | | | | |
| | 8,333 | 168 | 1,98 | 303 | 204 | 2,37 | 250 | 7870 | | | iRAM iRFM iRAFM | 72 / 132 S 4c | 247 | 77 |
| | 7,476 | 187 | 2,13 | 272 | 227 | 2,55 | 224 | 7870 | | | | | 248 | 80 |
| | 6,730 | 208 | 2,24 | 245 | 253 | 2,68 | 202 | 7870 | 249 | 83 | | | | |
| | 6,074 | 230 | 2,62 | 221 | 280 | 3,14 | 182 | 7870 | | | | | | |
| | 5,494 | 255 | 2,70 | 200 | 309 | 3,24 | 165 | 7870 | | | | | | |
| | 4,995 | 280 | 2,71 | 182 | 340 | 3,26 | 150 | 7870 | | | | | | |
| | 4,497 | 311 | 2,84 | 164 | 378 | 3,40 | 135 | 7870 | | | | | | |
| | 4,059 | 345 | 3,00 | 148 | 419 | 3,60 | 122 | 7870 | | | | | | |
| | 3,670 | 381 | 3,12 | 134 | 463 | 3,75 | 110 | 7870 | | | | | | |
| | 3,324 | 421 | 3,27 | 121 | 511 | 3,93 | 100 | 7870 | | | | | | |
| | 3,014 | 464 | 3,41 | 110 | 564 | 4,09 | 90 | 7870 | | | | | | |
| | 2,733 | 512 | 3,64 | 99 | 622 | 4,37 | 82 | 7870 | iRAM iRFM iRAFM | 72 / 132 S 2a | | | 247 | 73 |
| | 2,571 | 545 | 3,64 | 94 | 661 | 4,37 | 77 | 7870 | | | 248 | 76 | | |
| | 6,074 | 461 | 4,90 | 111 | 560 | 5,88 | 91 | 7870 | | | 249 | 79 | | |
| | 5,494 | 510 | 5,10 | 100 | 619 | 6,12 | 82 | 7870 | | | | | | |
| | 4,995 | 561 | 5,10 | 91 | 681 | 6,12 | 75 | 7870 | | | | | | |
| 4,497 | 623 | 5,20 | 82 | 756 | 6,24 | 67 | 7870 | | | | | | | |
| 4,059 | 690 | 5,50 | 74 | 838 | 6,60 | 61 | 7870 | | | | | | | |
| 15,40 | 91 | 0,92 | 561 | 110 | 1,10 | 462 | 7800 | iRAM iRFM iRAFM | | | 721 / C112 M 4 | 229 | 65 | |
| 13,73 | 102 | 0,96 | 500 | 124 | 1,15 | 412 | 7800 | | | | | 230 | 68 | |
| 11,17 | 125 | 1,15 | 407 | 152 | 1,37 | 335 | 7800 | | | | | 231 | 71 | |
| 12,13 | 115 | 1,12 | 441 | 140 | 1,34 | 364 | 7600 | iRAM iRFM iRAFM | | | 721 / 132 S 4c | 229 | 75 | |
| 9,866 | 142 | 1,31 | 359 | 172 | 1,57 | 296 | 7550 | | | | | 230 | 78 | |
| 8,769 | 160 | 1,36 | 319 | 194 | 1,64 | 263 | 7500 | | 231 | 81 | | | | |
| 7,834 | 179 | 1,39 | 285 | 217 | 1,67 | 235 | 7450 | | | | | | | |
| 7,029 | 199 | 1,56 | 256 | 242 | 1,87 | 211 | 7400 | | | | | | | |
| 6,327 | 221 | 1,72 | 230 | 269 | 2,06 | 190 | 7400 | | | | | | | |
| 5,710 | 245 | 1,88 | 208 | 298 | 2,26 | 171 | 7350 | | | | | | | |
| 5,164 | 271 | 2,08 | 188 | 329 | 2,50 | 155 | 7350 | | | | | | | |
| 4,677 | 299 | 2,18 | 170 | 363 | 2,62 | 140 | 7300 | | | | | | | |
| 4,240 | 330 | 2,24 | 154 | 401 | 2,68 | 127 | 7280 | | | | | | | |
| 3,809 | 368 | 2,24 | 139 | 446 | 2,68 | 114 | 7250 | | | | | | | |



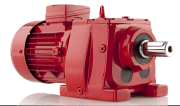
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-----|----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 5,5 7,5 | 3,438 | 407 | 2,24 | 125 | 494 | 2,68 | 103 | 7100 | iRAM iRFM iRAFM | 721 / 132 S 4c | 229 | 75 |
| | 3,109 | 450 | 2,24 | 113 | 547 | 2,68 | 93 | 7100 | | | 230 | 78 |
| | 2,816 | 497 | 2,24 | 103 | 604 | 2,68 | 84 | 7100 | | | 231 | 81 |
| | 2,553 | 548 | 2,24 | 93 | 666 | 2,68 | 77 | 7100 | | | | |
| | 13,81 | 101 | 0,91 | 495 | 123 | 1,10 | 408 | 3300 | iRAM iRFM iRAFM | 63 / 132 S 4c | 211 | 62 |
| | 12,21 | 115 | 0,87 | 444 | 139 | 1,05 | 366 | 3000 | | | 212 | 67 |
| | 11,10 | 126 | 0,95 | 404 | 153 | 1,15 | 333 | 3000 | | | 213 | 68 |
| | 10,07 | 139 | 1,04 | 367 | 169 | 1,25 | 302 | 3000 | iRAM iRFM iRAFM | 62 / C112 M 4 | 211 | 53 |
| | 9,358 | 150 | 0,98 | 341 | 182 | 1,18 | 281 | 3000 | | | 212 | 58 |
| | 8,510 | 165 | 1,04 | 310 | 200 | 1,25 | 255 | 3000 | | | 213 | 59 |
| | 7,673 | 182 | 1,08 | 279 | 222 | 1,30 | 230 | 3000 | iRAM iRFM iRAFM | 62 / 132 S 4c | 211 | 63 |
| | 7,108 | 197 | 1,16 | 259 | 239 | 1,39 | 213 | 3000 | | | | |
| | 6,480 | 216 | 1,20 | 236 | 262 | 1,44 | 194 | 3000 | | | | |
| | 5,992 | 234 | 1,28 | 218 | 284 | 1,54 | 180 | 3000 | | | | |
| | 5,723 | 245 | 2,13 | 208 | 297 | 2,55 | 172 | 3000 | | | | |
| | 5,325 | 263 | 2,13 | 194 | 319 | 2,55 | 160 | 3000 | | | | |
| | 5,060 | 277 | 2,29 | 184 | 336 | 2,75 | 152 | 3000 | | | | |
| | 4,499 | 311 | 2,45 | 164 | 378 | 2,95 | 135 | 3000 | | | | |
| | 3,998 | 350 | 2,60 | 146 | 425 | 3,12 | 120 | 3000 | | | | |
| | 3,711 | 377 | 1,84 | 135 | 458 | 2,21 | 111 | 3000 | | | | |
| | 3,287 | 426 | 1,88 | 120 | 517 | 2,26 | 99 | 3000 | | | | |
| | 2,917 | 480 | 1,92 | 106 | 583 | 2,30 | 87 | 3000 | | | | |
| | 2,592 | 540 | 1,92 | 94 | 656 | 2,30 | 78 | 3000 | | | | |
| | 2,444 | 573 | 1,92 | 89 | 696 | 2,30 | 73 | 3000 | | | | |
| | 7,108 | 394 | 2,30 | 129 | 478 | 2,76 | 107 | 3000 | | | | |
| | 6,480 | 432 | 2,30 | 118 | 525 | 2,76 | 97 | 3000 | | | | |
| | 5,992 | 467 | 2,30 | 109 | 567 | 2,76 | 90 | 3000 | | | | |
| | 5,723 | 489 | 4,20 | 104 | 594 | 5,04 | 86 | 3000 | | | | |
| | 5,325 | 526 | 4,20 | 97 | 638 | 5,04 | 80 | 3000 | | | | |
| | 5,060 | 553 | 4,50 | 92 | 672 | 5,40 | 76 | 3000 | | | | |
| | 4,499 | 622 | 4,80 | 82 | 756 | 5,76 | 67 | 3000 | | | | |
| | 3,998 | 700 | 5,20 | 73 | 850 | 6,24 | 60 | 3000 | | | | |
| | 3,711 | 755 | 3,80 | 68 | 916 | 4,56 | 56 | 3000 | | | | |
| | 3,287 | 852 | 3,90 | 60 | 1034 | 4,68 | 49 | 3000 | | | | |
| | 13,81 | 101 | 0,91 | 495 | 246 | 1,10 | 204 | 3300 | iRAM iRFM iRAFM | 631 / 132 S 4c | 193 | 66 |
| | 12,21 | 115 | 0,87 | 444 | 279 | 1,05 | 183 | 3000 | | | 194 | 71 |
| | 11,10 | 126 | 0,95 | 404 | 306 | 1,15 | 166 | 3000 | | | 195 | 72 |
| | 10,07 | 139 | 1,04 | 367 | 338 | 1,25 | 151 | 3000 | iRAM iRFM iRAFM | 621 / C112 M 4 | 193 | 51 |
| | 9,358 | 150 | 0,98 | 341 | 363 | 1,18 | 140 | 3000 | | | 194 | 56 |
| | 8,510 | 165 | 1,04 | 310 | 400 | 1,25 | 128 | 3000 | | | 195 | 57 |
| 7,673 | 182 | 1,08 | 279 | 443 | 1,30 | 115 | 3000 | iRAM iRFM iRAFM | 621 / 132 S 4c | 193 | 61 | |
| 7,108 | 197 | 1,16 | 259 | 478 | 1,39 | 107 | 3000 | | | | | |
| 6,480 | 216 | 1,20 | 236 | 525 | 1,44 | 97 | 3000 | | | | | |
| 5,992 | 234 | 1,28 | 218 | 567 | 1,54 | 90 | 3000 | | | | | |
| 5,723 | 245 | 2,13 | 208 | 594 | 2,55 | 86 | 3000 | | | | | |
| 5,325 | 263 | 2,13 | 194 | 638 | 2,55 | 80 | 3000 | | | | | |
| 5,060 | 277 | 2,29 | 184 | 672 | 2,75 | 76 | 3000 | | | | | |
| 4,499 | 311 | 2,45 | 164 | 756 | 2,95 | 67 | 3000 | | | | | |
| 3,998 | 350 | 2,60 | 146 | 850 | 3,12 | 60 | 3000 | | | | | |
| 3,711 | 377 | 1,84 | 135 | 916 | 2,21 | 56 | 3000 | | | | | |
| 3,287 | 426 | 1,88 | 120 | 1034 | 2,26 | 49 | 3000 | | | | | |
| 2,917 | 480 | 1,92 | 106 | 1166 | 2,30 | 44 | 3000 | | | | | |
| 2,592 | 540 | 1,92 | 94 | 1312 | 2,30 | 39 | 3000 | | | | | |
| 2,444 | 573 | 1,92 | 89 | 1391 | 2,30 | 37 | 3000 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|-----------------------|-------------------|--|--|-----------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | | |
| 5,5 7,5 | 7,108 | 394 | 2,30 | 129 | 478 | 2,76 | 107 | 3000 | îRAM îRFM îRAFM | 621 / 132 S 2a | 193 194 195 | 57 62 63 | | | | |
| | 6,480 | 432 | 2,30 | 118 | 525 | 2,76 | 97 | 3000 | | | | | | | | |
| | 5,992 | 467 | 2,30 | 109 | 567 | 2,76 | 90 | 3000 | | | | | | | | |
| | 5,723 | 489 | 4,20 | 104 | 594 | 5,04 | 86 | 3000 | | | | | | | | |
| | 5,325 | 526 | 4,20 | 97 | 638 | 5,04 | 80 | 3000 | | | | | | | | |
| | 5,060 | 553 | 4,50 | 92 | 672 | 5,40 | 76 | 3000 | | | | | | | | |
| | 4,499 | 622 | 4,80 | 82 | 756 | 5,76 | 67 | 3000 | | | | | | | | |
| | 3,998 | 700 | 5,20 | 73 | 850 | 6,24 | 60 | 3000 | | | | | | | | |
| | 3,711 | 755 | 3,80 | 68 | 916 | 4,56 | 56 | 3000 | | | | | | | | |
| | 3,287 | 852 | 3,90 | 60 | 1034 | 4,68 | 49 | 3000 | | | | | | | | |
| 7,5 11 | 432 | 3,2 | 0,88 | 20800 | 3,9 | 1,06 | 17129 | 110000 | îRAM îRFM îRAFM | 154 / 132 M 4b | 367 368 369 | 1053 1103 1123 | | | | |
| | 362 | 3,9 | 1,03 | 17426 | 4,7 | 1,24 | 14351 | 110000 | | | | | | | | |
| | 321 | 4,4 | 1,16 | 15476 | 5,3 | 1,39 | 12745 | 110000 | | | | | | | | |
| | 292 | 4,8 | 1,28 | 14046 | 5,8 | 1,54 | 11567 | 110000 | | | | | | | | |
| | 264 | 5,3 | 1,44 | 12732 | 6,4 | 1,73 | 10485 | 110000 | | | | | | | | |
| | 230 | 6,1 | 1,64 | 11063 | 7,4 | 1,97 | 9111 | 110000 | | | | | | | | |
| | 222 | 4,1 | 1,10 | 16868 | 5,0 | 1,32 | 13801 | 110000 | | | | | | | | |
| | 202 | 4,5 | 1,20 | 15335 | 5,5 | 1,44 | 12547 | 110000 | | | | | | | | |
| | 179 | 5,0 | 1,36 | 13599 | 6,2 | 1,63 | 11127 | 110000 | | | | | | | | |
| | 157 | 5,7 | 1,55 | 11974 | 7,0 | 1,86 | 9797 | 110000 | | | | | | | | |
| | 141 | 6,4 | 1,72 | 10733 | 7,8 | 2,06 | 8781 | 110000 | | | | | | | | |
| | 127 | 7,1 | 1,91 | 9689 | 8,6 | 2,29 | 7928 | 110000 | | | | | | | | |
| | 111 | 8,1 | 2,20 | 8446 | 9,9 | 2,64 | 6911 | 110000 | | | | | | | | |
| | 93,05 | 9,7 | 2,60 | 7077 | 12 | 3,12 | 5790 | 110000 | | | | | | | | |
| | 82,63 | 11 | 2,90 | 6285 | 13 | 3,48 | 5142 | 110000 | | | | | | | | |
| | 75,00 | 12 | 3,20 | 5704 | 15 | 3,84 | 4667 | 110000 | | | | | | | | |
| | 67,98 | 13 | 3,50 | 5170 | 16 | 4,20 | 4230 | 110000 | | | | | | | | |
| | 345 | 4,1 | 0,82 | 16594 | 4,9 | 0,99 | 13665 | 60000 | | | | | îRAM îRFM îRAFM | 144 / 132 M 4b | 343 344 345 | 580 594 620 |
| | 308 | 4,6 | 0,91 | 14811 | 5,5 | 1,09 | 12197 | 60000 | | | | | | | | |
| | 276 | 5,1 | 1,00 | 13292 | 6,2 | 1,20 | 10946 | 60000 | | | | | | | | |
| 263 | 5,3 | 1,06 | 12662 | 6,5 | 1,27 | 10428 | 60000 | | | | | | | | | |
| 236 | 5,9 | 1,16 | 11364 | 7,2 | 1,39 | 9358 | 60000 | | | | | | | | | |
| 213 | 6,6 | 1,28 | 10244 | 8,0 | 1,54 | 8436 | 60000 | | | | | | | | | |
| 192 | 7,3 | 1,32 | 9269 | 8,8 | 1,58 | 7633 | 60000 | | | | | | | | | |
| 175 | 8,0 | 1,56 | 8412 | 9,7 | 1,87 | 6928 | 60000 | | | | | | | | | |
| 161 | 5,6 | 1,07 | 12282 | 6,8 | 1,28 | 10049 | 60000 | | | | | | | | | |
| 146 | 6,1 | 1,17 | 11132 | 7,5 | 1,41 | 9108 | 60000 | | | | | | | | | |
| 133 | 6,8 | 1,33 | 10099 | 8,3 | 1,60 | 8262 | 60000 | | | | | | | | | |
| 103 | 8,7 | 1,65 | 7864 | 11 | 1,98 | 6434 | 60000 | | | | | | | | | |
| 92,24 | 9,8 | 1,87 | 7015 | 12 | 2,24 | 5740 | 60000 | | | | | | | | | |
| 82,86 | 11 | 2,13 | 6302 | 13 | 2,56 | 5156 | 60000 | | | | | | | | | |
| 72,71 | 12 | 2,40 | 5530 | 15 | 2,88 | 4524 | 60000 | | | | | | | | | |
| 161 | 8,7 | 1,70 | 7896 | 11 | 2,04 | 6502 | 60000 | îRAPM îRFPM îRAFP M | 143 / 132 M 4b | 340 341 342 | 518 532 558 | | | | | |
| 146 | 9,6 | 1,88 | 7156 | 12 | 2,26 | 5893 | 60000 | | | | | | | | | |
| 133 | 11 | 2,00 | 6492 | 13 | 2,40 | 5346 | 60000 | | | | | | | | | |
| 103 | 14 | 2,40 | 5055 | 16 | 2,88 | 4163 | 60000 | | | | | | | | | |
| 92,24 | 15 | 2,70 | 4510 | 18 | 3,24 | 3714 | 60000 | | | | | | | | | |
| 82,86 | 17 | 3,30 | 4051 | 21 | 3,96 | 3336 | 60000 | | | | | | | | | |
| 226 | 6,2 | 0,80 | 10905 | 7,5 | 0,96 | 8981 | 45200 | | | | | îRAM îRFM îRAFM | 124 / 132 M 4b | 325 326 327 | 405 407 435 | |
| 215 | 6,5 | 0,82 | 10360 | 7,9 | 0,98 | 8532 | 45200 | | | | | | | | | |
| 186 | 7,5 | 0,90 | 9100 | 9,1 | 1,08 | 7494 | 45210 | | | | | | | | | |
| 167 | 8,4 | 1,00 | 8169 | 10 | 1,21 | 6728 | 45210 | | | | | îRAM îRFM îRAFM | 123 / 132 M 4b | 319 320 321 | 343 345 373 | |
| 151 | 9,3 | 1,11 | 7387 | 11 | 1,34 | 6084 | 44490 | | | | | | | | | |
| 122 | 11 | 1,42 | 5988 | 14 | 1,71 | 4932 | 44200 | | | | | | | | | |
| 112 | 13 | 1,47 | 5464 | 15 | 1,76 | 4499 | 44100 | | | | | | | | | |
| 100 | 14 | 1,69 | 4905 | 17 | 2,02 | 4039 | 43800 | | | | | | | | | |



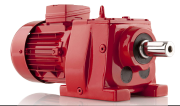
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 7,5 11 | 90,71 | 15 | 1,83 | 4435 | 19 | 2,20 | 3652 | 43300 | iRAM iRFM iRAFM | 123 / 132 M 4b | 319 320 321 | 343 345 373 |
| | 75,77 | 18 | 2,20 | 3704 | 22 | 2,64 | 3051 | 43180 | | | | |
| | 66,67 | 21 | 2,49 | 3260 | 25 | 2,99 | 2685 | 43180 | | | | |
| | 59,16 | 24 | 2,79 | 2893 | 29 | 3,34 | 2382 | 43180 | | | | |
| | 52,85 | 26 | 3,15 | 2584 | 32 | 3,78 | 2128 | 43180 | | | | |
| | 47,47 | 29 | 3,45 | 2321 | 36 | 4,14 | 1912 | 42900 | | | | |
| | 42,84 | 33 | 3,80 | 2095 | 40 | 4,56 | 1725 | 42720 | | | | |
| | 40,70 | 34 | 4,00 | 1990 | 42 | 4,80 | 1639 | 42720 | | | | |
| | 86,72 | 16 | 0,97 | 4240 | 20 | 1,16 | 3492 | 27000 | | | | |
| | 77,32 | 18 | 1,09 | 3780 | 22 | 1,30 | 3113 | 27000 | | | | |
| | 68,28 | 21 | 1,23 | 3339 | 25 | 1,48 | 2749 | 27000 | | | | |
| | 60,69 | 23 | 1,38 | 2967 | 28 | 1,65 | 2444 | 26500 | | | | |
| | 54,22 | 26 | 1,60 | 2651 | 31 | 1,92 | 2183 | 26500 | | | | |
| | 48,65 | 29 | 1,76 | 2379 | 35 | 2,11 | 1959 | 26100 | | | | |
| | 43,79 | 32 | 1,96 | 2141 | 39 | 2,35 | 1763 | 26000 | | | | |
| | 39,53 | 35 | 2,13 | 1932 | 43 | 2,56 | 1591 | 25800 | | | | |
| | 35,87 | 39 | 2,40 | 1754 | 47 | 2,88 | 1444 | 28500 | | | | |
| | 31,68 | 44 | 2,67 | 1549 | 54 | 3,20 | 1275 | 25500 | | | | |
| | 28,16 | 50 | 3,08 | 1377 | 60 | 3,70 | 1134 | 25000 | | | | |
| | 25,16 | 56 | 3,37 | 1230 | 68 | 4,05 | 1013 | 24500 | | | | |
| | 22,57 | 62 | 3,81 | 1103 | 75 | 4,58 | 909 | 24200 | | | | |
| | 68,66 | 20 | 0,78 | 3357 | 25 | 0,94 | 2764 | 19200 | | | | |
| | 60,50 | 23 | 0,88 | 2958 | 28 | 1,06 | 2436 | 19200 | | | | |
| | 53,77 | 26 | 1,04 | 2629 | 32 | 1,25 | 2165 | 19100 | | | | |
| | 48,11 | 29 | 1,16 | 2352 | 35 | 1,39 | 1937 | 19000 | | | | |
| | 43,29 | 32 | 1,32 | 2117 | 39 | 1,58 | 1743 | 19000 | | | | |
| | 39,14 | 36 | 1,44 | 1914 | 43 | 1,72 | 1576 | 19000 | | | | |
| | 35,52 | 39 | 1,58 | 1737 | 48 | 1,90 | 1430 | 19000 | | | | |
| | 32,34 | 43 | 1,76 | 1581 | 53 | 2,11 | 1302 | 18900 | | | | |
| | 29,53 | 47 | 1,92 | 1444 | 58 | 2,30 | 1189 | 18900 | | | | |
| | 27,01 | 52 | 2,08 | 1321 | 63 | 2,50 | 1088 | 18800 | | | | |
| | 24,76 | 57 | 2,28 | 1211 | 69 | 2,74 | 997 | 18801 | | | | |
| | 20,09 | 70 | 2,79 | 982 | 85 | 3,34 | 809 | 18802 | | | | |
| | 16,85 | 83 | 3,30 | 824 | 101 | 3,96 | 678 | 18803 | | | | |
| | 14,21 | 99 | 3,96 | 695 | 120 | 4,75 | 572 | 18804 | | | | |
| | 23,38 | 60 | 2,29 | 1161 | 73 | 2,75 | 956 | 17000 | | | | |
| | 20,60 | 68 | 2,40 | 1023 | 83 | 2,88 | 842 | 17000 | | | | |
| | 18,31 | 76 | 2,61 | 909 | 93 | 3,14 | 749 | 17000 | | | | |
| | 16,38 | 85 | 2,86 | 813 | 104 | 3,43 | 670 | 16800 | | | | |
| | 14,74 | 95 | 3,08 | 732 | 115 | 3,70 | 603 | 16800 | | | | |
| | 13,33 | 105 | 3,37 | 662 | 128 | 4,05 | 545 | 16700 | | | | |
| | 11,01 | 127 | 4,10 | 547 | 154 | 4,92 | 450 | 16550 | | | | |
| 10,05 | 139 | 4,40 | 499 | 169 | 5,28 | 411 | 16500 | | | | | |
| 9,200 | 152 | 4,50 | 457 | 185 | 5,40 | 376 | 16500 | | | | | |
| 37,16 | 38 | 0,79 | 1817 | 46 | 0,95 | 1496 | 14300 | | | | | |
| 33,03 | 42 | 0,94 | 1615 | 51 | 1,13 | 1330 | 14150 | | | | | |
| 30,08 | 47 | 1,02 | 1471 | 57 | 1,22 | 1211 | 14050 | | | | | |
| 27,12 | 52 | 1,10 | 1326 | 63 | 1,32 | 1092 | 13800 | | | | | |
| 24,54 | 57 | 1,24 | 1200 | 69 | 1,49 | 988 | 13500 | | | | | |
| 22,27 | 63 | 1,36 | 1089 | 76 | 1,63 | 897 | 13350 | | | | | |
| 20,26 | 69 | 1,47 | 991 | 84 | 1,76 | 816 | 13150 | | | | | |
| 18,47 | 76 | 1,58 | 903 | 92 | 1,90 | 744 | 12950 | | | | | |
| 16,86 | 83 | 1,67 | 824 | 101 | 2,01 | 679 | 12500 | | | | | |
| 15,41 | 91 | 1,70 | 753 | 110 | 2,04 | 620 | 12050 | | | | | |
| 14,90 | 94 | 1,76 | 739 | 114 | 2,11 | 609 | 12050 | | | | | |
| 13,24 | 106 | 1,92 | 657 | 128 | 2,30 | 541 | 11800 | | | | | |
| 11,88 | 118 | 2,00 | 590 | 143 | 2,40 | 486 | 11450 | | | | | |
| 10,71 | 131 | 2,24 | 532 | 159 | 2,69 | 438 | 11100 | | | | | |



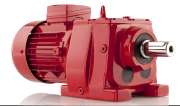
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [kg] | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|----------------------|-------------------|-------------------|--|----------------------|-------------------|----------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _r Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | | |
| 7,5 11 | 9,689 | 144 | 2,48 | 481 | 175 | 2,98 | 396 | 10850 | iram irfm irafm | 82 / 132 M 4b | 265 266 267 | 113 118 120 | | | | |
| | 8,793 | 159 | 2,67 | 436 | 193 | 3,20 | 359 | 10650 | | | | | | | | |
| | 8,244 | 170 | 2,77 | 409 | 206 | 3,33 | 337 | 10500 | | | | | | | | |
| | 7,432 | 188 | 2,99 | 369 | 229 | 3,58 | 304 | 10400 | | | | | | | | |
| | 6,724 | 208 | 3,04 | 334 | 253 | 3,65 | 275 | 10200 | | | | | | | | |
| | 6,103 | 229 | 3,25 | 303 | 279 | 3,90 | 249 | 10100 | | | | | | | | |
| | 5,552 | 252 | 3,36 | 276 | 306 | 4,03 | 227 | 10000 | | | | | | | | |
| | 5,061 | 277 | 3,47 | 251 | 336 | 4,16 | 207 | 9900 | | | | | | | | |
| | 4,620 | 303 | 3,57 | 229 | 368 | 4,29 | 189 | 9800 | | | | | | | | |
| | 4,222 | 332 | 3,67 | 210 | 403 | 4,40 | 173 | 9650 | | | | | | | | |
| | 4,052 | 346 | 3,74 | 201 | 420 | 4,49 | 166 | 9600 | | | | | | | | |
| | 3,694 | 379 | 3,96 | 183 | 460 | 4,75 | 151 | 9500 | | | | | | | | |
| | 3,372 | 415 | 4,18 | 167 | 504 | 5,02 | 138 | 9500 | | | | | | | | |
| | 3,082 | 454 | 4,40 | 153 | 552 | 5,28 | 126 | 9500 | | | | | | | | |
| | 2,926 | 478 | 4,40 | 145 | 581 | 5,28 | 120 | 9500 | | | | | | | | |
| | 2,674 | 524 | 4,47 | 133 | 636 | 5,37 | 109 | 9500 | | | | | | | | |
| | 2,373 | 590 | 4,62 | 118 | 716 | 5,54 | 97 | 9500 | | | | | | | | |
| | 20,29 | 69 | 0,81 | 992 | 84 | 0,97 | 817 | 7600 | | | | | iram irfm irafm | 73 / 132 M 4b | 247 248 249 | 86 89 92 |
| | 18,35 | 76 | 0,86 | 897 | 93 | 1,03 | 739 | 7600 | | | | | | | | |
| | 16,62 | 84 | 0,94 | 813 | 102 | 1,13 | 669 | 7600 | | | | | | | | |
| | 15,07 | 93 | 1,14 | 737 | 113 | 1,37 | 607 | 7600 | | | | | iram irfm irafm | 72 / 132 M 4b | 247 248 249 | 84 87 90 |
| | 13,53 | 104 | 1,09 | 671 | 126 | 1,31 | 553 | 7500 | | | | | | | | |
| | 12,02 | 116 | 1,15 | 597 | 141 | 1,38 | 491 | 7500 | | | | | | | | |
| | 10,74 | 130 | 1,28 | 533 | 158 | 1,54 | 439 | 7500 | | | | | | | | |
| | 9,337 | 150 | 1,36 | 463 | 182 | 1,63 | 382 | 7500 | | | | | | | | |
| | 8,333 | 168 | 1,45 | 414 | 204 | 1,74 | 341 | 7500 | | | | | | | | |
| | 7,476 | 187 | 1,56 | 371 | 227 | 1,87 | 306 | 7500 | | | | | | | | |
| | 6,730 | 208 | 1,64 | 334 | 253 | 1,97 | 275 | 7500 | | | | | | | | |
| | 6,074 | 230 | 1,92 | 301 | 280 | 2,30 | 248 | 7500 | | | | | | | | |
| | 5,494 | 255 | 1,98 | 273 | 309 | 2,38 | 225 | 7500 | | | | | | | | |
| | 4,995 | 280 | 1,99 | 248 | 340 | 2,39 | 204 | 7500 | | | | | | | | |
| | 4,497 | 311 | 2,08 | 223 | 378 | 2,50 | 184 | 7500 | | | | | | | | |
| | 4,059 | 345 | 2,20 | 201 | 419 | 2,64 | 166 | 7500 | | | | | | | | |
| | 3,670 | 381 | 2,29 | 182 | 463 | 2,75 | 150 | 7500 | | | | | | | | |
| | 3,324 | 421 | 2,40 | 165 | 511 | 2,88 | 136 | 7500 | | | | | | | | |
| | 3,014 | 464 | 2,50 | 150 | 564 | 3,00 | 123 | 7500 | | | | | | | | |
| | 2,733 | 512 | 2,67 | 136 | 622 | 3,20 | 112 | 7500 | | | | | | | | |
| | 2,571 | 545 | 2,67 | 128 | 661 | 3,20 | 105 | 7500 | | | | | | | | |
| | 6,074 | 461 | 3,59 | 151 | 560 | 4,31 | 124 | 7870 | iram irfm irafm | 72 / 132 S 2c | 247 248 249 | 80 83 86 | | | | |
| | 5,494 | 510 | 3,74 | 136 | 619 | 4,49 | 112 | 7870 | | | | | | | | |
| | 4,995 | 561 | 3,74 | 124 | 681 | 4,49 | 102 | 7870 | | | | | | | | |
| | 4,497 | 623 | 3,81 | 112 | 756 | 4,58 | 92 | 7870 | | | | | | | | |
| 4,059 | 690 | 4,03 | 101 | 838 | 4,84 | 83 | 7870 | | | | | | | | | |
| 12,13 | 115 | 0,82 | 602 | 140 | 0,98 | 496 | 7400 | iram irfm irafm | 721 / 132 M 4b | 229 230 231 | 82 85 88 | | | | | |
| 9,866 | 142 | 0,96 | 490 | 172 | 1,15 | 403 | 7400 | | | | | | | | | |
| 8,769 | 160 | 1,00 | 435 | 194 | 1,20 | 358 | 7370 | | | | | | | | | |
| 7,834 | 179 | 1,02 | 389 | 217 | 1,22 | 320 | 7350 | | | | | | | | | |
| 7,029 | 199 | 1,14 | 349 | 242 | 1,37 | 287 | 7300 | | | | | | | | | |
| 6,327 | 221 | 1,26 | 314 | 269 | 1,51 | 259 | 7300 | | | | | | | | | |
| 5,710 | 245 | 1,38 | 283 | 298 | 1,65 | 233 | 7250 | | | | | | | | | |
| 5,164 | 271 | 1,53 | 256 | 329 | 1,83 | 211 | 7250 | | | | | | | | | |
| 4,677 | 299 | 1,60 | 232 | 363 | 1,92 | 191 | 7200 | | | | | | | | | |
| 4,240 | 330 | 1,64 | 210 | 401 | 1,97 | 173 | 7170 | | | | | | | | | |
| 3,809 | 368 | 1,64 | 189 | 446 | 1,97 | 156 | 7150 | | | | | | | | | |
| 3,438 | 407 | 1,64 | 171 | 494 | 1,97 | 141 | 7000 | | | | | | | | | |
| 3,109 | 450 | 1,64 | 154 | 547 | 1,97 | 127 | 7000 | | | | | | | | | |
| 2,816 | 497 | 1,64 | 140 | 604 | 1,97 | 115 | 7000 | | | | | | | | | |
| 2,553 | 548 | 1,64 | 127 | 666 | 1,97 | 104 | 7000 | | | | | | | | | |



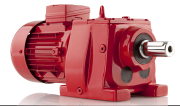
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [kg] | [kg] | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|------|------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 11 15 | 292 | 4,8 | 0,87 | 20601 | 5,8 | 1,04 | 16966 | 110000 | iRAM iRFM iRAFM | 154 / 160 M 4b | 367 | 1090 |
| | 264 | 5,3 | 0,98 | 18673 | 6,4 | 1,18 | 15378 | 110000 | | | 368 | 1140 |
| | 230 | 6,1 | 1,12 | 16226 | 7,4 | 1,34 | 13363 | 110000 | | | 369 | 1160 |
| | 202 | 4,5 | 0,82 | 22491 | 5,5 | 0,98 | 18402 | 110000 | iRAM iRFM iRAFM | 153 / 160 L 6b | 361 | 1027 |
| | 179 | 5,0 | 0,93 | 19946 | 6,2 | 1,11 | 16319 | 110000 | | | 362 | 1077 |
| | 157 | 5,7 | 1,06 | 17563 | 7,0 | 1,27 | 14369 | 110000 | | | 363 | 1097 |
| | 141 | 6,4 | 1,17 | 15741 | 7,8 | 1,41 | 12879 | 110000 | | | | |
| | 127 | 7,1 | 1,30 | 14211 | 8,6 | 1,56 | 11627 | 110000 | iRAM iRFM iRAFM | 153 / 160 M 4b | 361 | 1010 |
| | 222 | 6,3 | 1,17 | 15904 | 7,7 | 1,40 | 13098 | 110000 | | | 362 | 1060 |
| | 202 | 6,9 | 1,28 | 14459 | 8,4 | 1,54 | 11907 | 110000 | | | 363 | 1080 |
| | 179 | 7,8 | 1,44 | 12822 | 9,5 | 1,73 | 10559 | 110000 | | | | |
| | 157 | 8,9 | 1,64 | 11290 | 11 | 1,97 | 9298 | 110000 | | | | |
| | 141 | 9,9 | 1,82 | 10119 | 12 | 2,18 | 8334 | 110000 | | | | |
| | 127 | 11 | 2,00 | 9136 | 13 | 2,40 | 7524 | 110000 | | | | |
| | 111 | 13 | 2,30 | 7964 | 15 | 2,76 | 6558 | 110000 | | | | |
| | 93,05 | 15 | 2,70 | 6672 | 18 | 3,24 | 5495 | 110000 | iRAM iRFM iRAFM | 144 / 160 M 4b | 343 | 617 |
| | 82,63 | 17 | 3,10 | 5925 | 21 | 3,72 | 4880 | 60000 | | | 344 | 631 |
| | 236 | 5,9 | 0,79 | 16667 | 7,2 | 0,95 | 13726 | 60000 | | | 345 | 657 |
| | 213 | 6,6 | 0,87 | 15025 | 8,0 | 1,05 | 12373 | 60000 | iRAM iRFM iRAFM | 143 / 160 L 6b | | |
| | 192 | 7,3 | 0,90 | 13595 | 8,8 | 1,08 | 11196 | 60000 | | | 337 | 572 |
| | 175 | 8,0 | 1,06 | 12338 | 9,7 | 1,28 | 10160 | 60000 | | | 338 | 586 |
| | 146 | 6,1 | 0,80 | 16327 | 7,5 | 0,96 | 13359 | 60000 | | | 339 | 612 |
| | 133 | 6,8 | 0,91 | 14811 | 8,3 | 1,09 | 12118 | 60000 | iRAM iRFM iRAFM | 143 / 160 M 4b | | |
| | 103 | 8,7 | 1,13 | 11534 | 11 | 1,35 | 9437 | 60000 | | | 337 | 555 |
| | 92,24 | 9,8 | 1,27 | 10289 | 12 | 1,53 | 8418 | 60000 | | | 338 | 569 |
| | 82,86 | 11 | 1,45 | 9243 | 13 | 1,75 | 7563 | 60000 | | | 339 | 595 |
| | 72,71 | 12 | 1,64 | 8110 | 15 | 1,96 | 6636 | 60000 | | | | |
| | 161 | 8,7 | 1,16 | 11580 | 11 | 1,39 | 9537 | 60000 | | | | |
| | 146 | 9,6 | 1,28 | 10496 | 12 | 1,54 | 8644 | 60000 | | | | |
| | 133 | 11 | 1,36 | 9522 | 13 | 1,64 | 7841 | 60000 | | | | |
| | 103 | 14 | 1,64 | 7415 | 16 | 1,96 | 6106 | 60000 | iRAM iRFM iRAFM | 123 / C132 M 4 | 319 | 351 |
| | 92,24 | 15 | 1,84 | 6614 | 18 | 2,21 | 5447 | 60000 | | | 320 | 353 |
| | 82,86 | 17 | 2,25 | 5942 | 21 | 2,70 | 4893 | 60000 | | | | |
| | 72,71 | 19 | 2,52 | 5214 | 23 | 3,03 | 4294 | 60000 | iRAM iRFM iRAFM | 123 / 160 M 4b | | |
| | 64,89 | 22 | 2,90 | 4653 | 26 | 3,48 | 3832 | 60000 | | | 319 | 380 |
| | 122 | 11 | 0,97 | 8783 | 14 | 1,16 | 7233 | 47200 | | | 320 | 382 |
| | 112 | 13 | 1,00 | 8013 | 15 | 1,20 | 6599 | 45700 | | | 321 | 410 |
| | 100 | 14 | 1,15 | 7193 | 17 | 1,38 | 5924 | 44800 | | | | |
| | 90,71 | 15 | 1,25 | 6505 | 19 | 1,50 | 5357 | 44300 | | | | |
| | 75,77 | 18 | 1,50 | 5433 | 22 | 1,80 | 4474 | 43870 | | | | |
| 66,67 | 21 | 1,70 | 4781 | 25 | 2,04 | 3937 | 43180 | | | | | |
| 59,16 | 24 | 1,90 | 4242 | 29 | 2,28 | 3494 | 43180 | | | | | |
| 52,85 | 26 | 2,15 | 3790 | 32 | 2,58 | 3121 | 43180 | | | | | |
| 47,47 | 29 | 2,35 | 3404 | 36 | 2,82 | 2804 | 43000 | | | | | |
| 42,84 | 33 | 2,59 | 3072 | 40 | 3,11 | 2530 | 43000 | | | | | |
| 40,70 | 34 | 2,73 | 2919 | 42 | 3,27 | 2404 | 43000 | | | | | |
| 36,11 | 39 | 3,00 | 2590 | 47 | 3,60 | 2133 | 42880 | iRAM iRFM iRAFM | 103 / 160 M 4b | 301 | 295 | |
| 32,26 | 43 | 3,41 | 2313 | 53 | 4,09 | 1905 | 42700 | | | 302 | 298 | |
| 28,98 | 48 | 3,75 | 2078 | 59 | 4,50 | 1711 | 42700 | | | 303 | 320 | |
| 60,69 | 23 | 0,94 | 4352 | 28 | 1,13 | 3584 | 25000 | | | | | |
| 54,22 | 26 | 1,09 | 3888 | 31 | 1,31 | 3202 | 25000 | | | | | |
| 48,65 | 29 | 1,20 | 3489 | 35 | 1,44 | 2873 | 24800 | | | | | |
| 43,79 | 32 | 1,34 | 3140 | 39 | 1,60 | 2586 | 24800 | | | | | |
| 39,53 | 35 | 1,45 | 2834 | 43 | 1,75 | 2334 | 24500 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|-------------------|-----------------------|---------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | | | |
| 11 15 | 35,87 | 39 | 1,64 | 2572 | 47 | 1,96 | 2118 | 24500 | iRAM iRFM iRAFM | 103 / 160 M 4b | 301 302 303 | 295 298 320 | | | | |
| | 31,68 | 44 | 1,82 | 2272 | 54 | 2,18 | 1871 | 24200 | | | | | | | | |
| | 28,16 | 50 | 2,10 | 2019 | 60 | 2,52 | 1663 | 24000 | | | | | | | | |
| | 25,16 | 56 | 2,30 | 1804 | 68 | 2,76 | 1486 | 23800 | | | | | | | | |
| | 22,57 | 62 | 2,60 | 1618 | 75 | 3,12 | 1333 | 23500 | | | | | | | | |
| | 20,32 | 69 | 2,86 | 1457 | 84 | 3,44 | 1200 | 23100 | | | | | | | | |
| | 18,37 | 76 | 3,20 | 1317 | 93 | 3,85 | 1085 | 22800 | | | | | | | | |
| | 16,58 | 84 | 3,55 | 1189 | 103 | 4,25 | 979 | 22500 | | | | | | | | |
| | 15,02 | 93 | 3,95 | 1077 | 113 | 4,75 | 887 | 22000 | | | | | | | | |
| | 17,69 | 79 | 3,20 | 1288 | 96 | 3,85 | 1061 | 22000 | iRAM iRFM iRAFM | 102 / 160 M 4b | 301 302 303 | 255 258 280 | | | | |
| | 48,11 | 29 | 0,79 | 3450 | 35 | 0,95 | 2841 | 17800 | iRAM iRFM iRAFM | 93 / 160 M 4b | 283 284 285 | 210 220 230 | | | | |
| | 43,29 | 32 | 0,90 | 3105 | 39 | 1,08 | 2557 | 17800 | | | | | | | | |
| | 39,14 | 36 | 0,98 | 2807 | 43 | 1,18 | 2311 | 17600 | | | | | | | | |
| | 35,52 | 39 | 1,08 | 2547 | 48 | 1,30 | 2098 | 17500 | | | | | | | | |
| | 32,34 | 43 | 1,20 | 2319 | 53 | 1,44 | 1910 | 17450 | | | | | | | | |
| | 29,53 | 47 | 1,31 | 2117 | 58 | 1,57 | 1744 | 17250 | | | | | | | | |
| | 27,01 | 52 | 1,42 | 1937 | 63 | 1,70 | 1595 | 17150 | | | | | | | | |
| | 24,76 | 57 | 1,55 | 1776 | 69 | 1,87 | 1462 | 17151 | | | | | | | | |
| | 20,09 | 70 | 1,90 | 1441 | 85 | 2,28 | 1187 | 17152 | | | | | | | | |
| | 16,85 | 83 | 2,25 | 1208 | 101 | 2,70 | 995 | 17153 | | | | | | | | |
| | 14,21 | 99 | 2,70 | 1019 | 120 | 3,24 | 839 | 17154 | | | | | | | | |
| | 23,38 | 60 | 1,56 | 1702 | 73 | 1,88 | 1402 | 15400 | iRAM iRFM iRAFM | 92 / C132 M 4 | 283 284 285 | 176 186 196 | | | | |
| | 20,60 | 68 | 1,64 | 1500 | 83 | 1,96 | 1235 | 15150 | iRAM iRFM iRAFM | 92 / 160 M 4b | 283 284 285 | 205 215 225 | | | | |
| | 18,31 | 76 | 1,78 | 1333 | 93 | 2,14 | 1098 | 15000 | | | | | | | | |
| | 16,38 | 85 | 1,95 | 1193 | 104 | 2,34 | 982 | 14800 | | | | | | | | |
| | 14,74 | 95 | 2,10 | 1073 | 115 | 2,52 | 884 | 14600 | | | | | | | | |
| | 13,33 | 105 | 2,30 | 970 | 128 | 2,76 | 799 | 14400 | | | | | | | | |
| | 11,01 | 127 | 2,80 | 802 | 154 | 3,35 | 660 | 14150 | | | | | | | | |
| | 10,05 | 139 | 3,00 | 732 | 169 | 3,60 | 603 | 14000 | | | | | | | | |
| | 9,200 | 152 | 3,07 | 670 | 185 | 3,68 | 552 | 13650 | | | | | | | | |
| | 8,317 | 168 | 3,20 | 605 | 204 | 3,85 | 499 | 13400 | | | | | | | | |
| | 7,548 | 185 | 3,55 | 550 | 225 | 4,25 | 453 | 13000 | | | | | | | | |
| | 6,872 | 204 | 3,89 | 500 | 247 | 4,66 | 412 | 12850 | | | | | | | | |
| | 6,274 | 223 | 4,30 | 457 | 271 | 5,16 | 376 | 12700 | | | | | | | | |
| | 22,27 | 63 | 0,93 | 1597 | 76 | 1,11 | 1315 | 12150 | | | | | | | | |
| | 20,26 | 69 | 1,00 | 1453 | 84 | 1,20 | 1196 | 12000 | | | | | iRAM iRFM iRAFM | 83 / 160 M 4b | 265 266 267 | 157 162 164 |
| | 18,47 | 76 | 1,08 | 1324 | 92 | 1,30 | 1091 | 11900 | | | | | | | | |
| | 16,86 | 83 | 1,14 | 1209 | 101 | 1,37 | 996 | 11650 | | | | | | | | |
| | 15,41 | 91 | 1,16 | 1105 | 110 | 1,39 | 910 | 11350 | | | | | | | | |
| | 14,90 | 94 | 1,20 | 1084 | 114 | 1,44 | 893 | 11200 | iRAM iRFM iRAFM | 82 / C132 M 4 | 265 266 267 | 121 126 128 | | | | |
| | 13,24 | 106 | 1,31 | 964 | 128 | 1,57 | 794 | 10950 | iRAM iRFM iRAFM | 82 / 160 M 4b | 265 266 267 | 150 155 157 | | | | |
| | 11,88 | 118 | 1,36 | 865 | 143 | 1,64 | 712 | 10750 | | | | | | | | |
| 10,71 | 131 | 1,53 | 780 | 159 | 1,83 | 642 | 10500 | | | | | | | | | |
| 9,689 | 144 | 1,69 | 705 | 175 | 2,03 | 581 | 10350 | | | | | | | | | |
| 8,793 | 159 | 1,82 | 640 | 193 | 2,18 | 527 | 10050 | | | | | | | | | |
| 8,244 | 170 | 1,89 | 600 | 206 | 2,27 | 494 | 9800 | | | | | | | | | |
| 7,432 | 188 | 2,04 | 541 | 229 | 2,44 | 446 | 9700 | | | | | | | | | |
| 6,724 | 208 | 2,07 | 490 | 253 | 2,49 | 403 | 9600 | | | | | | | | | |
| 6,103 | 229 | 2,22 | 444 | 279 | 2,66 | 366 | 9500 | | | | | | | | | |



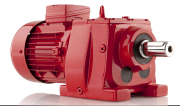
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | [kg] | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 11 | 5,552 | 252 | 2,29 | 404 | 306 | 2,75 | 333 | 9400 | iRAM iRFM iRAFM | 82 / 160 M 4b | 265 266 267 | 150 155 157 |
| | 5,061 | 277 | 2,36 | 368 | 336 | 2,84 | 303 | 9300 | | | | |
| | 4,620 | 303 | 2,44 | 336 | 368 | 2,92 | 277 | 9250 | | | | |
| | 4,222 | 332 | 2,50 | 307 | 403 | 3,00 | 253 | 9150 | | | | |
| | 4,052 | 346 | 2,55 | 295 | 420 | 3,06 | 243 | 9050 | | | | |
| | 3,694 | 379 | 2,70 | 269 | 460 | 3,24 | 221 | 8950 | | | | |
| | 3,372 | 415 | 2,85 | 245 | 504 | 3,42 | 202 | 8800 | | | | |
| | 3,082 | 454 | 3,00 | 224 | 552 | 3,60 | 185 | 8700 | | | | |
| | 2,926 | 478 | 3,00 | 213 | 581 | 3,60 | 175 | 8700 | | | | |
| | 2,674 | 524 | 3,05 | 195 | 636 | 3,66 | 160 | 8700 | | | | |
| | 2,373 | 590 | 3,15 | 173 | 716 | 3,78 | 142 | 8700 | | | | |
| | 8,333 | 168 | 0,99 | 607 | 204 | 1,19 | 500 | 5580 | iRAM iRFM iRAFM | 72 / C132 M 4 | 247 248 249 | 92 95 98 |
| | 7,476 | 187 | 1,06 | 544 | 227 | 1,28 | 448 | 5580 | | | | |
| | 6,730 | 208 | 1,12 | 490 | 253 | 1,34 | 403 | 5580 | | | | |
| | 6,074 | 230 | 1,31 | 442 | 280 | 1,57 | 364 | 5580 | | | | |
| | 4,995 | 280 | 1,36 | 364 | 340 | 1,63 | 299 | 5580 | | | | |
| | 4,497 | 311 | 1,42 | 327 | 378 | 1,70 | 270 | 5580 | | | | |
| | 4,059 | 345 | 1,50 | 296 | 419 | 1,80 | 243 | 5580 | iRAM iRFM iRAFM | 72 / 160 M 4b | 247 248 249 | 121 124 127 |
| | 5,494 | 255 | 1,35 | 400 | 309 | 1,62 | 329 | 5580 | | | | |
| | 3,670 | 381 | 1,56 | 267 | 463 | 1,87 | 220 | 5580 | | | | |
| 3,324 | 421 | 1,64 | 242 | 511 | 1,96 | 199 | 5580 | | | | | |
| 3,014 | 464 | 1,70 | 219 | 564 | 2,05 | 181 | 5580 | | | | | |
| 2,733 | 512 | 1,82 | 199 | 622 | 2,18 | 164 | 5580 | | | | | |
| 2,571 | 545 | 1,82 | 187 | 661 | 2,18 | 154 | 5580 | | | | | |
| 15 | 230 | 6,1 | 0,82 | 22126 | 7,4 | 0,98 | 18222 | 110000 | iRAM iRFM iRAFM | 154 / 160 L 4a | 367 368 369 | 1110 1160 1180 |
| | 157 | 5,7 | 0,78 | 23949 | 7,0 | 0,93 | 19595 | 110000 | iRAM iRFM | 153 / 180 L 6a | 361 362 | 1090 1140 |
| | 141 | 6,4 | 0,86 | 21465 | 7,8 | 1,03 | 17562 | 110000 | | | | |
| | 127 | 7,1 | 0,96 | 19379 | 8,6 | 1,15 | 15856 | 110000 | iRAM iRFM | 153 / 180 L 6a | 362 363 | 1140 1160 |
| | 222 | 6,3 | 0,86 | 21688 | 7,7 | 1,03 | 17861 | 110000 | | | | |
| | 202 | 6,9 | 0,94 | 19716 | 8,4 | 1,13 | 16237 | 110000 | iRAM iRFM iRAFM | 153 / 160 L 4a | 361 362 363 | 1030 1080 1100 |
| | 179 | 7,8 | 1,06 | 17485 | 9,5 | 1,27 | 14399 | 110000 | | | | |
| | 157 | 8,9 | 1,20 | 15396 | 11 | 1,44 | 12679 | 110000 | | | | |
| | 141 | 9,9 | 1,33 | 13799 | 12 | 1,60 | 11364 | 110000 | | | | |
| | 127 | 11 | 1,47 | 12458 | 13 | 1,76 | 10259 | 110000 | | | | |
| | 111 | 13 | 1,69 | 10860 | 15 | 2,02 | 8943 | 110000 | | | | |
| | 93,05 | 15 | 1,98 | 9098 | 18 | 2,38 | 7493 | 110000 | | | | |
| | 82,63 | 17 | 2,27 | 8080 | 21 | 2,73 | 6654 | 110000 | | | | |
| | 75,00 | 19 | 2,50 | 7334 | 23 | 3,00 | 6040 | 110000 | | | | |
| | 67,98 | 21 | 2,80 | 6648 | 25 | 3,36 | 5475 | 110000 | | | | |
| | 92,24 | 9,8 | 0,93 | 14030 | 12 | 1,12 | 11479 | 60000 | iRAM iRFM iRAFM | 143 / 180 L 6a | 337 338 339 | 635 649 675 |
| | 82,86 | 11 | 1,07 | 12604 | 13 | 1,28 | 10313 | 60000 | | | | |
| | 72,71 | 12 | 1,20 | 11059 | 15 | 1,44 | 9048 | 60000 | | | | |
| | 161 | 8,7 | 0,85 | 15791 | 11 | 1,02 | 13005 | 60000 | iRAM iRFM iRAFM | 143 / 160 L 4a | 337 338 339 | 575 589 615 |
| | 146 | 9,6 | 0,94 | 14313 | 12 | 1,13 | 11787 | 60000 | | | | |
| | 133 | 11 | 1,00 | 12984 | 13 | 1,20 | 10693 | 60000 | | | | |
| | 103 | 14 | 1,20 | 10111 | 16 | 1,44 | 8327 | 60000 | | | | |
| | 92,24 | 15 | 1,35 | 9020 | 18 | 1,62 | 7428 | 60000 | | | | |
| | 82,86 | 17 | 1,65 | 8103 | 21 | 1,98 | 6673 | 60000 | | | | |
| | 72,71 | 19 | 1,85 | 7110 | 23 | 2,22 | 5855 | 60000 | | | | |
| | 64,89 | 22 | 2,13 | 6346 | 26 | 2,55 | 5226 | 60000 | | | | |
| | 58,24 | 24 | 2,28 | 5695 | 29 | 2,73 | 4690 | 60000 | | | | |
| | 55,48 | 25 | 2,50 | 5425 | 31 | 2,99 | 4468 | 60000 | | | | |
| 49,79 | 28 | 2,79 | 4869 | 34 | 3,34 | 4009 | 60000 | | | | | |
| 44,88 | 31 | 3,10 | 4389 | 38 | 3,72 | 3614 | 60000 | | | | | |
| 40,61 | 34 | 3,30 | 3971 | 42 | 3,96 | 3270 | 60000 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 15 20 | 90,71 | 15 | 0,92 | 8870 | 19 | 1,10 | 7305 | 45200 | iRAM iRFM iRAFM | 123 / 160 L 4a | 319 320 321 | 400 402 430 |
| | 75,77 | 18 | 1,10 | 7409 | 22 | 1,32 | 6101 | 45000 | | | | |
| | 66,67 | 21 | 1,25 | 6520 | 25 | 1,50 | 5369 | 44800 | | | | |
| | 59,16 | 24 | 1,39 | 5785 | 29 | 1,67 | 4764 | 44400 | | | | |
| | 52,85 | 26 | 1,58 | 5168 | 32 | 1,89 | 4256 | 44250 | | | | |
| | 47,47 | 29 | 1,72 | 4642 | 36 | 2,07 | 3823 | 44000 | | | | |
| | 42,84 | 33 | 1,90 | 4189 | 40 | 2,28 | 3450 | 43780 | | | | |
| | 40,70 | 34 | 2,00 | 3980 | 42 | 2,40 | 3278 | 43540 | | | | |
| | 36,11 | 39 | 2,20 | 3531 | 47 | 2,64 | 2908 | 43500 | | | | |
| | 32,26 | 43 | 2,50 | 3155 | 53 | 3,00 | 2598 | 43400 | | | | |
| | 28,98 | 48 | 2,75 | 2834 | 59 | 3,30 | 2334 | 42700 | | | | |
| | 26,15 | 54 | 3,08 | 2557 | 65 | 3,70 | 2106 | 41800 | | | | |
| | 23,69 | 59 | 3,37 | 2316 | 72 | 4,05 | 1907 | 41000 | | | | |
| | 21,52 | 65 | 3,67 | 2105 | 79 | 4,40 | 1733 | 40000 | | | | |
| | 26,28 | 53 | 3,00 | 2609 | 65 | 3,60 | 2149 | 41800 | iRAM iRFM iRAFM | 122 / 160 L 4a | 319 320 321 | 371 373 401 |
| | 23,77 | 59 | 3,30 | 2359 | 72 | 3,96 | 1943 | 41700 | | | | |
| | 19,85 | 71 | 4,00 | 1971 | 86 | 4,80 | 1623 | 41600 | | | | |
| | 17,47 | 80 | 4,50 | 1734 | 97 | 5,40 | 1428 | 41500 | iRAM iRFM iRAFM | 103 / 160 L 4a | 301 302 303 | 315 318 340 |
| | 54,22 | 26 | 0,80 | 5302 | 31 | 0,96 | 4367 | 23000 | | | | |
| | 48,65 | 29 | 0,88 | 4757 | 35 | 1,06 | 3918 | 22500 | | | | |
| | 43,79 | 32 | 0,98 | 4282 | 39 | 1,18 | 3527 | 22000 | | | | |
| | 39,53 | 35 | 1,07 | 3865 | 43 | 1,28 | 3183 | 21500 | | | | |
| | 35,87 | 39 | 1,20 | 3508 | 47 | 1,44 | 2889 | 21300 | | | | |
| | 31,68 | 44 | 1,33 | 3098 | 54 | 1,60 | 2551 | 21300 | | | | |
| | 28,16 | 50 | 1,54 | 2753 | 60 | 1,85 | 2267 | 21000 | | | | |
| | 25,16 | 56 | 1,69 | 2460 | 68 | 2,02 | 2026 | 20800 | | | | |
| | 22,57 | 62 | 1,91 | 2207 | 75 | 2,29 | 1817 | 20500 | | | | |
| | 20,32 | 69 | 2,10 | 1987 | 84 | 2,52 | 1636 | 20000 | | | | |
| | 18,37 | 76 | 2,35 | 1796 | 93 | 2,82 | 1479 | 20000 | | | | |
| | 16,58 | 84 | 2,60 | 1621 | 103 | 3,12 | 1335 | 20000 | | | | |
| | 15,02 | 93 | 2,90 | 1469 | 113 | 3,48 | 1209 | 20000 | | | | |
| | 17,69 | 79 | 2,35 | 1756 | 96 | 2,82 | 1446 | 20000 | iRAM iRFM iRAFM | 102 / 160 L 4a | 301 302 303 | 275 278 300 |
| | 15,62 | 90 | 2,80 | 1551 | 109 | 3,36 | 1277 | 19500 | | | | |
| | 13,89 | 101 | 3,01 | 1379 | 122 | 3,61 | 1135 | 19500 | | | | |
| | 12,41 | 113 | 3,37 | 1232 | 137 | 4,05 | 1014 | 19000 | | | | |
| | 10,59 | 132 | 4,10 | 1051 | 161 | 4,92 | 865 | 19000 | iRAM iRFM iRAFM | 93 / 160 L 4a | 283 284 285 | 230 240 250 |
| | 9,457 | 148 | 4,50 | 939 | 180 | 5,40 | 773 | 18000 | | | | |
| | 20,09 | 70 | 1,39 | 1965 | 85 | 1,67 | 1618 | 14000 | | | | |
| | 16,85 | 83 | 1,65 | 1648 | 101 | 1,98 | 1357 | 14000 | iRAM iRFM iRAFM | 92 / 160 L 4a | 283 284 285 | 225 235 245 |
| | 14,21 | 99 | 1,98 | 1390 | 120 | 2,38 | 1144 | 14000 | | | | |
| | 20,60 | 68 | 1,20 | 2045 | 83 | 1,44 | 1684 | 14000 | | | | |
| | 18,31 | 76 | 1,31 | 1818 | 93 | 1,57 | 1497 | 13900 | | | | |
| 16,38 | 85 | 1,43 | 1627 | 104 | 1,72 | 1339 | 13800 | | | | | |
| 14,74 | 95 | 1,54 | 1464 | 115 | 1,85 | 1205 | 13750 | | | | | |
| 13,33 | 105 | 1,69 | 1323 | 128 | 2,02 | 1090 | 13600 | | | | | |
| 11,01 | 127 | 2,05 | 1093 | 154 | 2,46 | 900 | 13500 | | | | | |
| 10,05 | 139 | 2,20 | 998 | 169 | 2,64 | 822 | 13500 | | | | | |
| 9,200 | 152 | 2,25 | 913 | 185 | 2,70 | 752 | 13300 | | | | | |
| 8,317 | 168 | 2,35 | 826 | 204 | 2,82 | 680 | 13200 | | | | | |
| 7,548 | 185 | 2,60 | 749 | 225 | 3,12 | 617 | 13050 | | | | | |
| 6,872 | 204 | 2,85 | 682 | 247 | 3,42 | 562 | 12900 | iRAM iRFM iRAFM | 83 / 160 L 4a | 265 266 267 | 177 182 184 | |
| 6,274 | 223 | 3,15 | 623 | 271 | 3,78 | 513 | 12800 | | | | | |
| 5,740 | 244 | 3,30 | 570 | 296 | 3,96 | 469 | 12600 | | | | | |
| 5,261 | 266 | 3,37 | 522 | 323 | 4,05 | 430 | 12500 | iRAM iRFM iRAFM | 83 / 160 L 4a | 265 266 267 | 177 182 184 | |
| 4,437 | 316 | 3,59 | 440 | 383 | 4,31 | 363 | 12400 | | | | | |
| 16,86 | 83 | 0,84 | 1649 | 101 | 1,00 | 1358 | 10350 | iRAM iRFM iRAFM | 83 / 160 L 4a | 265 266 267 | 177 182 184 | |
| 15,41 | 91 | 0,85 | 1507 | 110 | 1,02 | 1241 | 10100 | | | | | |



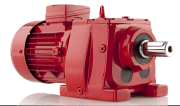
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|-----------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 15 20 | 13,24 | 106 | 0,96 | 1314 | 128 | 1,15 | 1082 | 9900 | îRAM îRFM îRAFM | 82 / 160 L 4a | 265 266 267 | 170 175 177 |
| | 11,88 | 118 | 1,00 | 1179 | 143 | 1,20 | 971 | 9700 | | | | |
| | 10,71 | 131 | 1,12 | 1063 | 159 | 1,34 | 875 | 9650 | | | | |
| | 9,689 | 144 | 1,24 | 962 | 175 | 1,49 | 792 | 9600 | | | | |
| | 8,793 | 159 | 1,33 | 873 | 193 | 1,60 | 719 | 9500 | | | | |
| | 8,244 | 170 | 1,39 | 818 | 206 | 1,66 | 674 | 9300 | | | | |
| | 7,432 | 188 | 1,49 | 738 | 229 | 1,79 | 608 | 9200 | | | | |
| | 6,724 | 208 | 1,52 | 668 | 253 | 1,82 | 550 | 9050 | | | | |
| | 6,103 | 229 | 1,63 | 606 | 279 | 1,95 | 499 | 8950 | | | | |
| | 5,552 | 252 | 1,68 | 551 | 306 | 2,02 | 454 | 8850 | | | | |
| | 5,061 | 277 | 1,73 | 502 | 336 | 2,08 | 414 | 8800 | | | | |
| | 4,620 | 303 | 1,79 | 459 | 368 | 2,14 | 378 | 8700 | | | | |
| | 4,222 | 332 | 1,83 | 419 | 403 | 2,20 | 345 | 8600 | | | | |
| | 4,052 | 346 | 1,87 | 402 | 420 | 2,24 | 331 | 8500 | | | | |
| | 3,694 | 379 | 1,98 | 367 | 460 | 2,38 | 302 | 8350 | | | | |
| | 3,372 | 415 | 2,09 | 335 | 504 | 2,51 | 276 | 8300 | | | | |
| | 3,082 | 454 | 2,20 | 306 | 552 | 2,64 | 252 | 8250 | | | | |
| | 2,926 | 478 | 2,20 | 290 | 581 | 2,64 | 239 | 8250 | | | | |
| 2,674 | 524 | 2,24 | 265 | 636 | 2,68 | 219 | 8250 | | | | | |
| 2,373 | 590 | 2,31 | 236 | 716 | 2,77 | 194 | 8250 | | | | | |
| 18,5 25 | 179 | 7,8 | 0,86 | 21565 | 9,5 | 1,03 | 17759 | 110000 | îRAM îRFM îRAFM | 153 / 180 M 4b | 361 362 363 | 1070 1120 1140 |
| | 157 | 8,9 | 0,98 | 18988 | 11 | 1,17 | 15637 | 110000 | | | | |
| | 141 | 9,9 | 1,08 | 17019 | 12 | 1,30 | 14015 | 110000 | | | | |
| | 127 | 11 | 1,19 | 15365 | 13 | 1,43 | 12653 | 110000 | | | | |
| | 111 | 13 | 1,37 | 13394 | 15 | 1,64 | 11030 | 110000 | | | | |
| | 93,05 | 15 | 1,61 | 11221 | 18 | 1,93 | 9241 | 110000 | | | | |
| | 82,63 | 17 | 1,84 | 9966 | 21 | 2,21 | 8207 | 110000 | | | | |
| | 75,00 | 19 | 2,00 | 9045 | 23 | 2,40 | 7449 | 110000 | | | | |
| | 67,98 | 21 | 2,20 | 8199 | 25 | 2,64 | 6752 | 110000 | | | | |
| | 59,07 | 24 | 2,50 | 7124 | 29 | 3,00 | 5867 | 110000 | | | | |
| | 133 | 11 | 0,81 | 16013 | 13 | 0,97 | 13188 | 60000 | | | | |
| | 103 | 14 | 0,97 | 12470 | 16 | 1,17 | 10270 | 60000 | | | | |
| | 92,24 | 15 | 1,09 | 11124 | 18 | 1,31 | 9161 | 60000 | | | | |
| | 82,86 | 17 | 1,34 | 9993 | 21 | 1,61 | 8230 | 60000 | | | | |
| | 72,71 | 19 | 1,50 | 8768 | 23 | 1,80 | 7221 | 60000 | | | | |
| | 64,89 | 22 | 1,72 | 7826 | 26 | 2,07 | 6445 | 60000 | | | | |
| | 58,24 | 24 | 1,84 | 7023 | 29 | 2,21 | 5784 | 60000 | | | | |
| | 55,48 | 25 | 2,02 | 6691 | 31 | 2,43 | 5510 | 60000 | | | | |
| | 49,79 | 28 | 2,26 | 6005 | 34 | 2,71 | 4945 | 60000 | | | | |
| | 44,88 | 31 | 2,51 | 5413 | 38 | 3,02 | 4458 | 60000 | | | | |
| | 40,61 | 34 | 2,68 | 4898 | 42 | 3,21 | 4033 | 60000 | | | | |
| | 36,86 | 38 | 3,00 | 4445 | 46 | 3,60 | 3661 | 60000 | | | | |
| | 33,53 | 42 | 3,32 | 4044 | 51 | 3,99 | 3330 | 60000 | | | | |
| | 75,77 | 18 | 0,89 | 9138 | 22 | 1,07 | 7525 | 44380 | | | | |
| | 66,67 | 21 | 1,01 | 8041 | 25 | 1,21 | 6622 | 44350 | | | | |
| | 59,16 | 24 | 1,13 | 7135 | 29 | 1,36 | 5876 | 44300 | | | | |
| | 52,85 | 26 | 1,28 | 6374 | 32 | 1,53 | 5249 | 44250 | | | | |
| | 47,47 | 29 | 1,40 | 5725 | 36 | 1,68 | 4715 | 44150 | | | | |
| | 42,84 | 33 | 1,54 | 5167 | 40 | 1,85 | 4255 | 44100 | | | | |
| | 40,70 | 34 | 1,62 | 4909 | 42 | 1,95 | 4042 | 43540 | | | | |
| | 36,11 | 39 | 1,78 | 4355 | 47 | 2,14 | 3587 | 43500 | | | | |
| | 32,26 | 43 | 2,03 | 3891 | 53 | 2,43 | 3204 | 43400 | | | | |
| | 28,98 | 48 | 2,23 | 3495 | 59 | 2,68 | 2878 | 42800 | | | | |
| | 26,15 | 54 | 2,50 | 3154 | 65 | 3,00 | 2597 | 42300 | | | | |
| | 23,69 | 59 | 2,74 | 2857 | 72 | 3,28 | 2353 | 41500 | | | | |
| | 21,52 | 65 | 2,97 | 2596 | 79 | 3,57 | 2138 | 41500 | | | | |
| 19,60 | 71 | 3,33 | 2364 | 87 | 4,00 | 1947 | 41500 | | | | | |
| 17,89 | 78 | 3,65 | 2158 | 95 | 4,38 | 1777 | 41500 | | | | | |
| 18,5 25 | 179 | 7,8 | 0,86 | 21565 | 9,5 | 1,03 | 17759 | 110000 | îRAM îRFM îRAFM | 123 / 180 M 4b | 319 320 321 | 440 442 470 |
| | 157 | 8,9 | 0,98 | 18988 | 11 | 1,17 | 15637 | 110000 | | | | |
| | 141 | 9,9 | 1,08 | 17019 | 12 | 1,30 | 14015 | 110000 | | | | |
| | 127 | 11 | 1,19 | 15365 | 13 | 1,43 | 12653 | 110000 | | | | |
| | 111 | 13 | 1,37 | 13394 | 15 | 1,64 | 11030 | 110000 | | | | |
| | 93,05 | 15 | 1,61 | 11221 | 18 | 1,93 | 9241 | 110000 | | | | |
| | 82,63 | 17 | 1,84 | 9966 | 21 | 2,21 | 8207 | 110000 | | | | |
| | 75,00 | 19 | 2,00 | 9045 | 23 | 2,40 | 7449 | 110000 | | | | |
| | 67,98 | 21 | 2,20 | 8199 | 25 | 2,64 | 6752 | 110000 | | | | |
| | 59,07 | 24 | 2,50 | 7124 | 29 | 3,00 | 5867 | 110000 | | | | |
| | 133 | 11 | 0,81 | 16013 | 13 | 0,97 | 13188 | 60000 | | | | |
| | 103 | 14 | 0,97 | 12470 | 16 | 1,17 | 10270 | 60000 | | | | |



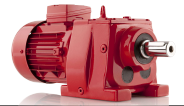
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|------------------------|-------------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 18,5 25 | 26,28 | 53 | 2,43 | 3218 | 65 | 2,92 | 2650 | 40000 | İRAM İRFM İRAFMM | 122 / C160 L 4 | 319 320 321 | 416 418 446 |
| | 23,77 | 59 | 2,68 | 2910 | 72 | 3,21 | 2396 | 40000 | İRAM İRFM İRAFMM | 122 / 180 M 4b | 319 320 321 | 411 413 441 |
| | 19,85 | 71 | 3,24 | 2430 | 86 | 3,89 | 2002 | 41700 | | | | |
| | 17,47 | 80 | 3,65 | 2139 | 97 | 4,38 | 1761 | 41600 | | | | |
| | 15,50 | 90 | 4,14 | 1898 | 110 | 4,96 | 1563 | 41500 | İRAM İRFM İRAFMM | 103 / 180 M 4b | 301 302 303 | 355 358 380 |
| | 13,85 | 101 | 4,62 | 1695 | 123 | 5,55 | 1396 | 41370 | | | | |
| | 39,53 | 35 | 0,86 | 4767 | 43 | 1,04 | 3926 | 21000 | | | | |
| | 35,87 | 39 | 0,97 | 4326 | 47 | 1,17 | 3563 | 20450 | İRAM İRFM İRAFMM | 102 / 180 M 4b | 301 302 303 | 315 318 340 |
| | 31,68 | 44 | 1,08 | 3820 | 54 | 1,30 | 3146 | 20100 | | | | |
| | 28,16 | 50 | 1,25 | 3396 | 60 | 1,50 | 2796 | 19800 | | | | |
| | 25,16 | 56 | 1,37 | 3034 | 68 | 1,64 | 2498 | 19600 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 |
| | 22,57 | 62 | 1,55 | 2722 | 75 | 1,86 | 2241 | 19000 | | | | |
| | 20,32 | 69 | 1,70 | 2450 | 84 | 2,04 | 2018 | 19000 | | | | |
| | 18,37 | 76 | 1,91 | 2215 | 93 | 2,29 | 1824 | 18900 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 16,58 | 84 | 2,11 | 2000 | 103 | 2,53 | 1647 | 18900 | | | | |
| | 15,02 | 93 | 2,35 | 1811 | 113 | 2,82 | 1492 | 18700 | | | | |
| | 17,69 | 79 | 1,91 | 2166 | 96 | 2,29 | 1784 | 18500 | İRAM İRFM İRAFMM | 102 / 180 M 4b | 301 302 303 | 315 318 340 |
| | 15,62 | 90 | 2,27 | 1913 | 109 | 2,72 | 1575 | 18500 | | | | |
| | 13,89 | 101 | 2,44 | 1700 | 122 | 2,93 | 1400 | 18250 | | | | |
| | 12,41 | 113 | 2,74 | 1519 | 137 | 3,28 | 1251 | 18100 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 |
| | 10,59 | 132 | 3,32 | 1296 | 161 | 3,99 | 1067 | 18000 | | | | |
| | 9,457 | 148 | 3,65 | 1158 | 180 | 4,38 | 954 | 17900 | | | | |
| | 8,485 | 165 | 4,05 | 1039 | 200 | 4,86 | 856 | 17700 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 7,638 | 183 | 4,10 | 935 | 223 | 4,92 | 770 | 17700 | | | | |
| | 7,144 | 196 | 4,20 | 875 | 238 | 5,04 | 720 | 17500 | | | | |
| | 16,38 | 85 | 1,16 | 2006 | 104 | 1,39 | 1652 | 12900 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 |
| | 14,74 | 95 | 1,25 | 1805 | 115 | 1,50 | 1487 | 12750 | | | | |
| | 13,33 | 105 | 1,37 | 1632 | 128 | 1,64 | 1344 | 12650 | | | | |
| | 11,01 | 127 | 1,66 | 1348 | 154 | 1,99 | 1110 | 12450 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 10,05 | 139 | 1,78 | 1231 | 169 | 2,14 | 1014 | 12350 | | | | |
| | 9,200 | 152 | 1,82 | 1126 | 185 | 2,19 | 928 | 12200 | | | | |
| | 8,317 | 168 | 1,91 | 1018 | 204 | 2,29 | 839 | 12100 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 |
| | 7,548 | 185 | 2,11 | 924 | 225 | 2,53 | 761 | 12050 | | | | |
| | 6,872 | 204 | 2,31 | 841 | 247 | 2,77 | 693 | 12000 | | | | |
| | 6,274 | 223 | 2,56 | 768 | 271 | 3,07 | 633 | 11850 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 5,740 | 244 | 2,68 | 703 | 296 | 3,21 | 579 | 11800 | | | | |
| | 5,261 | 266 | 2,74 | 644 | 323 | 3,28 | 530 | 11750 | | | | |
| | 4,437 | 316 | 2,91 | 543 | 383 | 3,50 | 447 | 11750 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 4,080 | 343 | 2,97 | 500 | 417 | 3,57 | 411 | 11600 | | | | |
| | 3,753 | 373 | 3,45 | 460 | 453 | 4,14 | 378 | 11500 | | | | |
| | 3,580 | 391 | 3,45 | 438 | 475 | 4,14 | 361 | 11850 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 |
| | 3,019 | 464 | 3,45 | 370 | 563 | 4,14 | 304 | 11850 | | | | |
| 2,776 | 504 | 3,57 | 340 | 612 | 4,28 | 280 | 11850 | | | | | |
| 2,554 | 548 | 3,57 | 313 | 666 | 4,28 | 258 | 11850 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 | |
| 2,450 | 571 | 3,57 | 300 | 694 | 4,28 | 247 | 11850 | | | | | |
| 10,71 | 131 | 0,91 | 1311 | 159 | 1,09 | 1080 | 9400 | | | | | |
| 9,689 | 144 | 1,01 | 1186 | 175 | 1,21 | 977 | 9300 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 | |
| 8,793 | 159 | 1,08 | 1077 | 193 | 1,30 | 887 | 9250 | | | | | |
| 8,244 | 170 | 1,12 | 1009 | 206 | 1,35 | 831 | 9050 | | | | | |
| 7,432 | 188 | 1,21 | 910 | 229 | 1,45 | 749 | 8950 | İRAM İRFM İRAFMM | 92 / 180 M 4b | 283 284 285 | 265 275 285 | |
| 6,724 | 208 | 1,23 | 823 | 253 | 1,48 | 678 | 8850 | | | | | |
| 6,103 | 229 | 1,32 | 747 | 279 | 1,58 | 615 | 8750 | | | | | |
| 5,552 | 252 | 1,36 | 680 | 306 | 1,63 | 560 | 8650 | İRAM İRFM İRAFMM | 82 / 180 M 4b | 265 266 267 | 210 215 217 | |
| 5,061 | 277 | 1,41 | 620 | 336 | 1,69 | 510 | 8550 | | | | | |
| 4,620 | 303 | 1,45 | 566 | 368 | 1,74 | 466 | 8400 | | | | | |



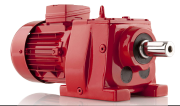
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 18,5 25 | 4,222 | 332 | 1,49 | 517 | 403 | 1,78 | 426 | 8250 | iRAM iRFM iRAFM | 82 / 180 M 4b | 265 266 267 | 210 215 217 |
| | 4,052 | 346 | 1,52 | 496 | 420 | 1,82 | 409 | 8150 | | | | |
| | 3,694 | 379 | 1,61 | 452 | 460 | 1,93 | 372 | 8050 | | | | |
| | 3,372 | 415 | 1,69 | 413 | 504 | 2,03 | 340 | 8000 | | | | |
| | 3,082 | 454 | 1,78 | 377 | 552 | 2,14 | 311 | 8000 | | | | |
| | 2,926 | 478 | 1,78 | 358 | 581 | 2,14 | 295 | 8000 | | | | |
| | 2,674 | 524 | 1,81 | 327 | 636 | 2,18 | 270 | 8000 | | | | |
| 22 30 | 157 | 8,9 | 0,82 | 22580 | 11 | 0,98 | 18596 | 110000 | iRAM iRFM iRAFM | 153 / 180 L 4b | 361 362 363 | 1085 1135 1155 |
| | 141 | 9,9 | 0,91 | 20239 | 12 | 1,09 | 16667 | 110000 | | | | |
| | 127 | 11 | 1,00 | 18272 | 13 | 1,20 | 15047 | 110000 | | | | |
| | 111 | 13 | 1,15 | 15928 | 15 | 1,38 | 13117 | 110000 | | | | |
| | 93,05 | 15 | 1,35 | 13344 | 18 | 1,62 | 10990 | 110000 | | | | |
| | 82,63 | 17 | 1,55 | 11851 | 21 | 1,86 | 9760 | 110000 | | | | |
| | 75,00 | 19 | 1,70 | 10756 | 23 | 2,04 | 8858 | 110000 | | | | |
| | 67,98 | 21 | 1,90 | 9750 | 25 | 2,28 | 8029 | 110000 | | | | |
| | 59,07 | 24 | 2,10 | 8472 | 29 | 2,52 | 6977 | 110000 | | | | |
| | 52,03 | 27 | 2,40 | 7463 | 33 | 2,88 | 6146 | 110000 | | | | |
| | 44,27 | 32 | 2,90 | 6350 | 38 | 3,48 | 5229 | 110000 | | | | |
| | 92,24 | 15 | 0,92 | 13229 | 18 | 1,10 | 10894 | 60000 | | | | |
| | 82,86 | 17 | 1,13 | 11884 | 21 | 1,35 | 9787 | 60000 | | | | |
| | 72,71 | 19 | 1,26 | 10427 | 23 | 1,51 | 8587 | 60000 | | | | |
| | 64,89 | 22 | 1,45 | 9307 | 26 | 1,74 | 7664 | 60000 | | | | |
| | 58,24 | 24 | 1,55 | 8352 | 29 | 1,86 | 6878 | 60000 | | | | |
| | 55,48 | 25 | 1,70 | 7957 | 31 | 2,04 | 6553 | 60000 | | | | |
| | 49,79 | 28 | 1,90 | 7141 | 34 | 2,28 | 5881 | 60000 | | | | |
| | 44,88 | 31 | 2,11 | 6437 | 38 | 2,54 | 5301 | 60000 | | | | |
| | 40,61 | 34 | 2,25 | 5824 | 42 | 2,70 | 4797 | 60000 | | | | |
| | 36,86 | 38 | 2,52 | 5286 | 46 | 3,03 | 4353 | 60000 | | | | |
| | 33,53 | 42 | 2,80 | 4809 | 51 | 3,35 | 3960 | 60000 | | | | |
| | 27,90 | 50 | 3,34 | 4002 | 61 | 4,01 | 3296 | 60000 | | | | |
| | 59,16 | 24 | 0,95 | 8485 | 29 | 1,14 | 6987 | 44000 | iRAM iRFM iRAFM | 123 / 180 L 4b | 319 320 321 | 455 457 485 |
| | 52,85 | 26 | 1,08 | 7580 | 32 | 1,29 | 6242 | 44000 | | | | |
| | 47,47 | 29 | 1,18 | 6809 | 36 | 1,41 | 5607 | 44000 | | | | |
| | 42,84 | 33 | 1,30 | 6144 | 40 | 1,55 | 5060 | 43900 | | | | |
| | 40,70 | 34 | 1,36 | 5837 | 42 | 1,64 | 4807 | 43700 | | | | |
| | 36,11 | 39 | 1,50 | 5179 | 47 | 1,80 | 4265 | 43600 | | | | |
| | 32,26 | 43 | 1,70 | 4627 | 53 | 2,05 | 3810 | 43400 | | | | |
| | 28,98 | 48 | 1,88 | 4156 | 59 | 2,25 | 3423 | 43000 | | | | |
| | 26,15 | 54 | 2,10 | 3751 | 65 | 2,52 | 3089 | 42500 | | | | |
| | 23,69 | 59 | 2,30 | 3397 | 72 | 2,76 | 2798 | 42000 | | | | |
| | 21,52 | 65 | 2,50 | 3087 | 79 | 3,00 | 2542 | 41500 | | | | |
| | 19,60 | 71 | 2,80 | 2812 | 87 | 3,36 | 2315 | 41500 | | | | |
| | 17,89 | 78 | 3,07 | 2566 | 95 | 3,68 | 2113 | 41500 | | | | |
| | 19,85 | 71 | 2,73 | 2890 | 86 | 3,27 | 2380 | 41000 | iRAM iRFM iRAFM | 122 / 180 L 4b | 319 320 321 | 426 428 456 |
| | 17,47 | 80 | 3,07 | 2543 | 97 | 3,68 | 2095 | 41000 | | | | |
| | 15,50 | 90 | 3,48 | 2257 | 110 | 4,17 | 1859 | 41000 | | | | |
| | 13,85 | 101 | 3,89 | 2016 | 123 | 4,66 | 1660 | 41000 | | | | |
| | 12,44 | 113 | 4,36 | 1811 | 137 | 5,24 | 1491 | 40140 | | | | |
| | 11,50 | 122 | 4,62 | 1674 | 148 | 5,55 | 1378 | 40140 | | | | |
| 31,68 | 44 | 0,91 | 4543 | 54 | 1,09 | 3741 | 20000 | iRAM iRFM iRAFM | 103 / 180 L 4b | 301 302 303 | 370 373 395 | |
| 28,16 | 50 | 1,05 | 4038 | 60 | 1,26 | 3325 | 19500 | | | | | |
| 25,16 | 56 | 1,15 | 3608 | 68 | 1,38 | 2971 | 19500 | | | | | |
| 22,57 | 62 | 1,30 | 3237 | 75 | 1,56 | 2666 | 19100 | | | | | |
| 20,32 | 69 | 1,43 | 2914 | 84 | 1,72 | 2400 | 19000 | | | | | |
| 18,37 | 76 | 1,60 | 2634 | 93 | 1,92 | 2169 | 18700 | | | | | |
| 16,58 | 84 | 1,77 | 2378 | 103 | 2,13 | 1958 | 18500 | | | | | |
| 15,02 | 93 | 1,98 | 2154 | 113 | 2,37 | 1774 | 18000 | | | | | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 22 30 | 17,69 | 79 | 1,60 | 2576 | 96 | 1,92 | 2121 | 17600 | iRAM iRFM iRAFM | 102 / 180 L 4b | 301 302 303 | 330 333 355 |
| | 15,62 | 90 | 1,91 | 2275 | 109 | 2,29 | 1873 | 17200 | | | | |
| | 13,89 | 101 | 2,05 | 2022 | 122 | 2,46 | 1665 | 17000 | | | | |
| | 12,41 | 113 | 2,30 | 1806 | 137 | 2,76 | 1488 | 16700 | | | | |
| | 10,59 | 132 | 2,80 | 1541 | 161 | 3,35 | 1269 | 16500 | | | | |
| | 9,457 | 148 | 3,07 | 1377 | 180 | 3,68 | 1134 | 16300 | | | | |
| | 8,485 | 165 | 3,41 | 1235 | 200 | 4,09 | 1017 | 16000 | | | | |
| | 7,638 | 183 | 3,45 | 1112 | 223 | 4,14 | 916 | 16000 | | | | |
| | 7,144 | 196 | 3,53 | 1040 | 238 | 4,24 | 857 | 16000 | | | | |
| | 6,382 | 219 | 3,70 | 929 | 266 | 4,44 | 765 | 15700 | | | | |
| | 5,726 | 244 | 3,78 | 834 | 297 | 4,54 | 687 | 15700 | | | | |
| | 5,154 | 272 | 3,87 | 750 | 330 | 4,64 | 618 | 15700 | | | | |
| | 4,652 | 301 | 4,04 | 677 | 365 | 4,84 | 558 | 15500 | | | | |
| | 4,207 | 333 | 4,20 | 613 | 404 | 5,05 | 504 | 15500 | | | | |
| | 3,723 | 376 | 3,89 | 542 | 457 | 4,66 | 446 | 15500 | | | | |
| | 3,360 | 417 | 4,01 | 489 | 506 | 4,81 | 403 | 15000 | | | | |
| | 3,039 | 461 | 4,01 | 442 | 559 | 4,81 | 364 | 15000 | | | | |
| | 2,752 | 509 | 4,09 | 401 | 618 | 4,91 | 330 | 15000 | | | | |
| | 2,495 | 561 | 4,09 | 363 | 681 | 4,91 | 299 | 15000 | | | | |
| | 2,263 | 619 | 4,09 | 329 | 751 | 4,91 | 271 | 15000 | | | | |
| | 13,33 | 105 | 1,15 | 1941 | 128 | 1,38 | 1598 | 12100 | | | | |
| | 11,01 | 127 | 1,40 | 1604 | 154 | 1,68 | 1321 | 11800 | | | | |
| | 10,05 | 139 | 1,50 | 1464 | 169 | 1,80 | 1206 | 11700 | | | | |
| | 9,200 | 152 | 1,53 | 1340 | 185 | 1,84 | 1103 | 11500 | | | | |
| | 8,317 | 168 | 1,60 | 1211 | 204 | 1,92 | 997 | 11100 | | | | |
| | 7,548 | 185 | 1,77 | 1099 | 225 | 2,13 | 905 | 10900 | | | | |
| | 6,872 | 204 | 1,94 | 1001 | 247 | 2,33 | 824 | 10900 | | | | |
| | 6,274 | 223 | 2,15 | 914 | 271 | 2,58 | 752 | 10800 | | | | |
| | 5,740 | 244 | 2,25 | 836 | 296 | 2,70 | 688 | 10700 | | | | |
| | 5,261 | 266 | 2,30 | 766 | 323 | 2,76 | 631 | 10600 | | | | |
| 4,437 | 316 | 2,45 | 646 | 383 | 2,94 | 532 | 10600 | | | | | |
| 4,080 | 343 | 2,50 | 594 | 417 | 3,00 | 489 | 10500 | | | | | |
| 3,753 | 373 | 2,90 | 546 | 453 | 3,48 | 450 | 10500 | | | | | |
| 3,580 | 391 | 2,90 | 521 | 475 | 3,48 | 429 | 10500 | | | | | |
| 3,019 | 464 | 2,90 | 440 | 563 | 3,48 | 362 | 10500 | | | | | |
| 2,776 | 504 | 3,00 | 404 | 612 | 3,60 | 333 | 10500 | | | | | |
| 2,554 | 548 | 3,00 | 372 | 666 | 3,60 | 306 | 10500 | | | | | |
| 2,450 | 571 | 3,00 | 357 | 694 | 3,60 | 294 | 10500 | | | | | |
| 6,724 | 208 | 1,04 | 979 | 253 | 1,24 | 806 | 8750 | | | | | |
| 6,103 | 229 | 1,11 | 889 | 279 | 1,33 | 732 | 8600 | | | | | |
| 5,552 | 252 | 1,15 | 808 | 306 | 1,37 | 666 | 8450 | | | | | |
| 5,061 | 277 | 1,18 | 737 | 336 | 1,42 | 607 | 8350 | | | | | |
| 4,620 | 303 | 1,22 | 673 | 368 | 1,46 | 554 | 8250 | | | | | |
| 4,222 | 332 | 1,25 | 615 | 403 | 1,50 | 506 | 8050 | | | | | |
| 4,052 | 346 | 1,28 | 590 | 420 | 1,53 | 486 | 7900 | | | | | |
| 3,694 | 379 | 1,35 | 538 | 460 | 1,62 | 443 | 7800 | | | | | |
| 3,372 | 415 | 1,43 | 491 | 504 | 1,71 | 404 | 7700 | | | | | |
| 3,082 | 454 | 1,50 | 449 | 552 | 1,80 | 370 | 7600 | | | | | |
| 2,926 | 478 | 1,50 | 426 | 581 | 1,80 | 351 | 7600 | | | | | |
| 2,674 | 524 | 1,53 | 389 | 636 | 1,83 | 321 | 7600 | | | | | |
| 2,373 | 590 | 1,58 | 346 | 716 | 1,89 | 285 | 7600 | | | | | |
| 30 40 | 111 | 13 | 0,84 | 21720 | 15 | 1,01 | 17887 | 110000 | iRAM iRFM iRAFM | 153 / 200 L 4c | 361 362 363 | 1100 1150 1170 |
| | 93,05 | 15 | 0,99 | 18197 | 18 | 1,19 | 14986 | 110000 | | | | |
| | 82,63 | 17 | 1,14 | 16160 | 21 | 1,36 | 13309 | 110000 | | | | |
| | 75,00 | 19 | 1,25 | 14668 | 23 | 1,50 | 12079 | 110000 | | | | |
| | 67,98 | 21 | 1,39 | 13295 | 25 | 1,67 | 10949 | 110000 | | | | |
| | 59,07 | 24 | 1,57 | 11553 | 29 | 1,88 | 9514 | 110000 | | | | |



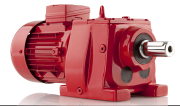
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | kg | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|-------------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 30 40 | 52,03 | 27 | 1,80 | 10176 | 33 | 2,16 | 8380 | 110000 | iRAM iRFM iRAFM | 153 / 200 L 4c | 361 362 363 | 1100 1150 1170 |
| | 44,27 | 32 | 2,10 | 8659 | 38 | 2,52 | 7131 | 110000 | | | | |
| | 38,46 | 36 | 2,30 | 7522 | 44 | 2,76 | 6195 | 110000 | | | | |
| | 35,19 | 40 | 2,50 | 6882 | 48 | 3,00 | 5668 | 110000 | | | | |
| | 27,50 | 51 | 3,10 | 5377 | 62 | 3,72 | 4428 | 110000 | iRAM iRFM iRAFM | 143 / 200 L 4c | 337 338 339 | 645 659 685 |
| | 23,62 | 59 | 3,70 | 4619 | 72 | 4,44 | 3804 | 110000 | | | | |
| | 82,86 | 17 | 0,83 | 16205 | 21 | 0,99 | 13346 | 60000 | | | | |
| | 72,71 | 19 | 0,93 | 14219 | 23 | 1,11 | 11710 | 60000 | | | | |
| | 64,89 | 22 | 1,06 | 12691 | 26 | 1,28 | 10451 | 60000 | | | | |
| | 58,24 | 24 | 1,14 | 11389 | 29 | 1,37 | 9379 | 60000 | | | | |
| | 55,48 | 25 | 1,25 | 10850 | 31 | 1,50 | 8936 | 60000 | | | | |
| | 49,79 | 28 | 1,39 | 9737 | 34 | 1,67 | 8019 | 60000 | | | | |
| | 44,88 | 31 | 1,55 | 8778 | 38 | 1,86 | 7229 | 60000 | | | | |
| | 40,61 | 34 | 1,65 | 7942 | 42 | 1,98 | 6541 | 60000 | | | | |
| | 36,86 | 38 | 1,85 | 7208 | 46 | 2,22 | 5936 | 60000 | | | | |
| | 33,53 | 42 | 2,05 | 6558 | 51 | 2,46 | 5400 | 60000 | | | | |
| | 27,90 | 50 | 2,45 | 5457 | 61 | 2,94 | 4494 | 60000 | | | | |
| | 23,32 | 60 | 2,90 | 4561 | 73 | 3,48 | 3756 | 60000 | | | | |
| | 20,02 | 70 | 3,27 | 3856 | 85 | 3,92 | 3175 | 60000 | | | | |
| | 20,02 | 70 | 2,79 | 3976 | 85 | 3,34 | 3274 | 60000 | | | | |
| | 18,16 | 77 | 3,08 | 3606 | 94 | 3,70 | 2970 | 60000 | | | | |
| | 16,20 | 86 | 3,50 | 3217 | 105 | 4,20 | 2650 | 60000 | | | | |
| | 14,56 | 96 | 3,90 | 2890 | 117 | 4,68 | 2380 | 60000 | | | | |
| | 47,47 | 29 | 0,86 | 9285 | 36 | 1,03 | 7646 | 44250 | | | | |
| | 42,84 | 33 | 0,95 | 8378 | 40 | 1,14 | 6900 | 44250 | | | | |
| | 40,70 | 34 | 1,00 | 7960 | 42 | 1,20 | 6555 | 44000 | | | | |
| | 36,11 | 39 | 1,10 | 7063 | 47 | 1,32 | 5816 | 44000 | | | | |
| | 32,26 | 43 | 1,25 | 6310 | 53 | 1,50 | 5196 | 43990 | | | | |
| | 28,98 | 48 | 1,38 | 5668 | 59 | 1,65 | 4667 | 43970 | | | | |
| | 26,15 | 54 | 1,54 | 5114 | 65 | 1,85 | 4212 | 43000 | | | | |
| | 23,69 | 59 | 1,69 | 4632 | 72 | 2,02 | 3815 | 42000 | | | | |
| | 21,52 | 65 | 1,83 | 4209 | 79 | 2,20 | 3466 | 42000 | | | | |
| | 19,60 | 71 | 2,05 | 3834 | 87 | 2,46 | 3157 | 41500 | | | | |
| | 17,89 | 78 | 2,25 | 3500 | 95 | 2,70 | 2882 | 41500 | | | | |
| | 17,47 | 80 | 2,25 | 3468 | 97 | 2,70 | 2856 | 42000 | | | | |
| | 15,50 | 90 | 2,55 | 3078 | 110 | 3,06 | 2534 | 42000 | | | | |
| | 13,85 | 101 | 2,85 | 2749 | 123 | 3,42 | 2264 | 41800 | | | | |
| | 12,44 | 113 | 3,20 | 2470 | 137 | 3,84 | 2034 | 40500 | | | | |
| | 11,50 | 122 | 3,39 | 2282 | 148 | 4,07 | 1880 | 40500 | | | | |
| | 10,20 | 137 | 3,82 | 2025 | 167 | 4,58 | 1668 | 40210 | | | | |
| 9,112 | 154 | 4,26 | 1809 | 187 | 5,11 | 1490 | 39100 | | | | | |
| 8,185 | 171 | 4,26 | 1625 | 208 | 5,11 | 1338 | 38900 | | | | | |
| 7,724 | 181 | 4,40 | 1534 | 220 | 5,28 | 1263 | 38440 | | | | | |
| 6,938 | 202 | 4,40 | 1378 | 245 | 5,28 | 1134 | 38000 | | | | | |
| 6,261 | 224 | 4,40 | 1243 | 272 | 5,28 | 1024 | 37800 | | | | | |
| 5,671 | 247 | 4,40 | 1126 | 300 | 5,28 | 927 | 37400 | | | | | |
| 5,153 | 272 | 4,30 | 1023 | 330 | 5,16 | 843 | 37400 | | | | | |
| 4,694 | 298 | 4,30 | 932 | 362 | 5,16 | 768 | 37400 | | | | | |
| 4,284 | 327 | 4,30 | 851 | 397 | 5,16 | 700 | 37400 | | | | | |
| 3,917 | 357 | 4,30 | 778 | 434 | 5,16 | 640 | 37400 | | | | | |
| 3,585 | 391 | 4,30 | 712 | 474 | 5,16 | 586 | 37400 | | | | | |
| 3,284 | 426 | 4,30 | 652 | 518 | 5,16 | 537 | 37400 | | | | | |
| 22,57 | 62 | 0,95 | 4414 | 75 | 1,14 | 3635 | 15900 | | | | | |
| 20,32 | 69 | 1,05 | 3973 | 84 | 1,26 | 3272 | 15900 | | | | | |
| 18,37 | 76 | 1,18 | 3592 | 93 | 1,41 | 2958 | 15900 | | | | | |
| 16,58 | 84 | 1,30 | 3243 | 103 | 1,56 | 2671 | 15900 | | | | | |
| 15,02 | 93 | 1,45 | 2937 | 113 | 1,74 | 2419 | 15900 | iRAM iRFM iRAFM | 103 / 200 L 4c | 301 302 303 | 385 388 410 | |



| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|-------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | |
| 30 40 | 15,62 | 90 | 1,40 | 3102 | 109 | 1,68 | 2555 | 15700 | iRAM iRFM iRAFM | 102 / 200 L 4c | 301 302 303 | 345 348 370 |
| | 13,89 | 101 | 1,50 | 2757 | 122 | 1,80 | 2271 | 15700 | | | | |
| | 12,41 | 113 | 1,69 | 2463 | 137 | 2,02 | 2029 | 15500 | | | | |
| | 10,59 | 132 | 2,05 | 2102 | 161 | 2,46 | 1731 | 15100 | | | | |
| | 9,457 | 148 | 2,25 | 1878 | 180 | 2,70 | 1546 | 15100 | | | | |
| | 8,485 | 165 | 2,50 | 1685 | 200 | 3,00 | 1387 | 14800 | | | | |
| | 7,638 | 183 | 2,53 | 1517 | 223 | 3,03 | 1249 | 14500 | | | | |
| | 7,144 | 196 | 2,59 | 1418 | 238 | 3,11 | 1168 | 14500 | | | | |
| | 6,382 | 219 | 2,71 | 1267 | 266 | 3,26 | 1044 | 14500 | | | | |
| | 5,726 | 244 | 2,78 | 1137 | 297 | 3,33 | 936 | 14500 | | | | |
| | 5,154 | 272 | 2,84 | 1023 | 330 | 3,40 | 843 | 14350 | | | | |
| | 4,652 | 301 | 2,96 | 924 | 365 | 3,55 | 761 | 14100 | | | | |
| | 4,207 | 333 | 3,08 | 835 | 404 | 3,70 | 688 | 14100 | | | | |
| | 3,723 | 376 | 2,85 | 739 | 457 | 3,42 | 609 | 14100 | | | | |
| | 3,360 | 417 | 2,94 | 667 | 506 | 3,53 | 549 | 14100 | | | | |
| | 3,039 | 461 | 2,94 | 603 | 559 | 3,53 | 497 | 13850 | | | | |
| | 2,752 | 509 | 3,00 | 546 | 618 | 3,60 | 450 | 13850 | | | | |
| | 2,495 | 561 | 3,00 | 495 | 681 | 3,60 | 408 | 13850 | | | | |
| | 2,263 | 619 | 3,00 | 449 | 751 | 3,60 | 370 | 13850 | | | | |
| | 37 50 | 6,872 | 204 | 1,43 | 1364 | 247 | 1,71 | 1124 | | | | |
| 6,274 | | 223 | 1,58 | 1246 | 271 | 1,89 | 1026 | 10500 | | | | |
| 5,740 | | 244 | 1,65 | 1140 | 296 | 1,98 | 939 | 10500 | | | | |
| 5,261 | | 266 | 1,69 | 1045 | 323 | 2,02 | 860 | 10350 | | | | |
| 4,872 | | 316 | 1,80 | 881 | 383 | 2,16 | 726 | 10200 | | | | |
| 4,080 | | 343 | 1,83 | 810 | 417 | 2,20 | 667 | 10100 | | | | |
| 3,753 | | 373 | 2,13 | 745 | 453 | 2,55 | 614 | 10000 | | | | |
| 3,580 | | 391 | 2,13 | 711 | 475 | 2,55 | 585 | 10000 | | | | |
| 3,019 | | 464 | 2,13 | 599 | 563 | 2,55 | 494 | 10000 | | | | |
| 2,776 | | 504 | 2,20 | 551 | 612 | 2,64 | 454 | 10000 | | | | |
| 2,554 | | 548 | 2,20 | 507 | 666 | 2,64 | 418 | 10000 | | | | |
| 2,450 | | 571 | 2,20 | 486 | 694 | 2,64 | 401 | 10000 | | | | |
| 93,05 | | 15 | 0,80 | 22443 | 18 | 0,96 | 18482 | 110000 | | | | |
| 82,63 | | 17 | 0,92 | 19931 | 21 | 1,11 | 16414 | 110000 | | | | |
| 75,00 | | 19 | 1,01 | 18090 | 23 | 1,21 | 14898 | 110000 | | | | |
| 67,98 | | 21 | 1,13 | 16398 | 25 | 1,36 | 13504 | 110000 | | | | |
| 59,07 | | 24 | 1,28 | 14248 | 29 | 1,54 | 11734 | 110000 | | | | |
| 52,03 | | 27 | 1,45 | 12551 | 33 | 1,74 | 10336 | 110000 | | | | |
| 44,27 | | 32 | 1,72 | 10679 | 38 | 2,06 | 8795 | 110000 | | | | |
| 38,46 | | 36 | 1,84 | 9277 | 44 | 2,21 | 7640 | 110000 | | | | |
| 35,19 | 40 | 2,00 | 8488 | 48 | 2,40 | 6990 | 110000 | | | | | |
| 27,50 | 51 | 2,50 | 6632 | 62 | 3,00 | 5462 | 110000 | | | | | |
| 23,62 | 59 | 3,00 | 5697 | 72 | 3,60 | 4691 | 110000 | | | | | |
| 28,55 | 49 | 2,30 | 6991 | 60 | 2,76 | 5757 | 110000 | | | | | |
| 25,93 | 54 | 2,50 | 6349 | 66 | 3,00 | 5229 | 110000 | | | | | |
| 23,57 | 59 | 2,80 | 5772 | 72 | 3,36 | 4753 | 110000 | | | | | |
| 21,09 | 66 | 3,10 | 5163 | 81 | 3,72 | 4252 | 110000 | | | | | |
| 19,00 | 74 | 3,50 | 4653 | 89 | 4,20 | 3832 | 110000 | | | | | |
| 17,22 | 81 | 3,80 | 4217 | 99 | 4,56 | 3473 | 110000 | | | | | |
| 15,69 | 89 | 4,20 | 3842 | 108 | 5,04 | 3164 | 110000 | | | | | |
| 64,89 | 22 | 0,86 | 15652 | 26 | 1,03 | 12890 | 60000 | | | | | |
| 58,24 | 24 | 0,92 | 14047 | 29 | 1,11 | 11568 | 60000 | | | | | |
| 55,48 | 25 | 1,01 | 13382 | 31 | 1,21 | 11021 | 60000 | | | | | |
| 49,79 | 28 | 1,13 | 12009 | 34 | 1,35 | 9890 | 60000 | | | | | |
| 44,88 | 31 | 1,26 | 10826 | 38 | 1,51 | 8916 | 60000 | | | | | |
| 40,61 | 34 | 1,34 | 9796 | 42 | 1,61 | 8067 | 60000 | | | | | |
| 36,86 | 38 | 1,50 | 8890 | 46 | 1,80 | 7321 | 60000 | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 143 / 225 S 4a | 337 338 339 | 784 798 824 |



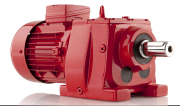
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-----|-----|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 37 50 | 33,53 | 42 | 1,66 | 8088 | 51 | 1,99 | 6661 | 60000 | iRAM iRFM iRAFM | 143 / 225 S 4a | 337 | 784 |
| | 27,90 | 50 | 1,99 | 6731 | 61 | 2,38 | 5543 | 60000 | | | 338 | 798 |
| | 23,32 | 60 | 2,35 | 5626 | 73 | 2,82 | 4633 | 60000 | | | 339 | 824 |
| | 20,02 | 70 | 2,65 | 4828 | 85 | 3,18 | 3976 | 60000 | iRAM iRFM iRAFM | 142 / 225 S 4a | 337 | 734 |
| | 20,02 | 70 | 2,26 | 4903 | 85 | 2,71 | 4038 | 60000 | | | 338 | 748 |
| | 18,16 | 77 | 2,50 | 4448 | 94 | 3,00 | 3663 | 60000 | | | 339 | 774 |
| | 16,20 | 86 | 2,84 | 3968 | 105 | 3,41 | 3268 | 60000 | | | | |
| | 14,56 | 96 | 3,16 | 3564 | 117 | 3,79 | 2935 | 60000 | iRAM iRFM iRAFM | 123 / 225 S 4a | 319 | 609 |
| | 12,77 | 110 | 3,90 | 3128 | 133 | 4,68 | 2576 | 60000 | | | 320 | 611 |
| | 32,26 | 43 | 1,01 | 7782 | 53 | 1,22 | 6408 | 44000 | | | 321 | 639 |
| | 28,98 | 48 | 1,11 | 6990 | 59 | 1,34 | 5757 | 43970 | iRAM iRFM iRAFM | 122 / 225 S 4a | 319 | 580 |
| | 26,15 | 54 | 1,25 | 6308 | 65 | 1,50 | 5195 | 42300 | | | | |
| | 23,69 | 59 | 1,37 | 5713 | 72 | 1,64 | 4705 | 41500 | | | | |
| | 21,52 | 65 | 1,49 | 5191 | 79 | 1,78 | 4275 | 41000 | | | | |
| | 19,60 | 71 | 1,66 | 4729 | 87 | 2,00 | 3894 | 41000 | | | | |
| | 17,89 | 78 | 1,82 | 4316 | 95 | 2,19 | 3554 | 41500 | | | | |
| | 17,47 | 80 | 1,82 | 4278 | 97 | 2,19 | 3523 | 41000 | | | | |
| | 15,50 | 90 | 2,07 | 3796 | 110 | 2,48 | 3126 | 41000 | | | | |
| | 13,85 | 101 | 2,31 | 3391 | 123 | 2,77 | 2792 | 40900 | | | | |
| | 12,44 | 113 | 2,59 | 3046 | 137 | 3,11 | 2508 | 40140 | | | | |
| | 11,50 | 122 | 2,75 | 2815 | 148 | 3,30 | 2318 | 40140 | | | | |
| | 10,20 | 137 | 3,10 | 2498 | 167 | 3,72 | 2057 | 40210 | | | | |
| | 9,112 | 154 | 3,45 | 2231 | 187 | 4,14 | 1838 | 39100 | | | | |
| | 8,185 | 171 | 3,45 | 2004 | 208 | 4,14 | 1651 | 38900 | | | | |
| | 7,724 | 181 | 3,57 | 1891 | 220 | 4,28 | 1558 | 38440 | | | | |
| | 6,938 | 202 | 3,57 | 1699 | 245 | 4,28 | 1399 | 38000 | | | | |
| | 6,261 | 224 | 3,57 | 1533 | 272 | 4,28 | 1263 | 37800 | | | | |
| | 5,671 | 247 | 3,57 | 1389 | 300 | 4,28 | 1144 | 37400 | | | | |
| | 5,153 | 272 | 3,49 | 1262 | 330 | 4,18 | 1039 | 37400 | | | | |
| | 4,694 | 298 | 3,49 | 1149 | 362 | 4,18 | 947 | 37400 | | | | |
| | 4,284 | 327 | 3,49 | 1049 | 397 | 4,18 | 864 | 37400 | | | | |
| | 3,917 | 357 | 3,49 | 959 | 434 | 4,18 | 790 | 37400 | | | | |
| | 3,585 | 391 | 3,49 | 878 | 474 | 4,18 | 723 | 37400 | | | | |
| | 3,284 | 426 | 3,49 | 804 | 518 | 4,18 | 662 | 37400 | | | | |
| | 15,62 | 90 | 1,14 | 3826 | 109 | 1,36 | 3151 | 15000 | iRAM iRFM iRAFM | 102 / 225 S 4a | 301 | 484 |
| | 13,89 | 101 | 1,22 | 3401 | 122 | 1,46 | 2801 | 14600 | | | | |
| | 12,41 | 113 | 1,37 | 3038 | 137 | 1,64 | 2502 | 14600 | | | | |
| 10,59 | 132 | 1,66 | 2592 | 161 | 1,99 | 2135 | 14350 | | | | | |
| 9,457 | 148 | 1,82 | 2316 | 180 | 2,19 | 1907 | 14350 | | | | | |
| 8,485 | 165 | 2,03 | 2078 | 200 | 2,43 | 1711 | 14100 | | | | | |
| 7,638 | 183 | 2,05 | 1870 | 223 | 2,46 | 1540 | 14100 | | | | | |
| 7,144 | 196 | 2,10 | 1749 | 238 | 2,52 | 1441 | 14100 | | | | | |
| 6,382 | 219 | 2,20 | 1563 | 266 | 2,64 | 1287 | 14100 | | | | | |
| 5,726 | 244 | 2,25 | 1402 | 297 | 2,70 | 1155 | 13800 | | | | | |
| 5,154 | 272 | 2,30 | 1262 | 330 | 2,76 | 1039 | 13800 | | | | | |
| 4,652 | 301 | 2,40 | 1139 | 365 | 2,88 | 938 | 13800 | | | | | |
| 4,207 | 333 | 2,50 | 1030 | 404 | 3,00 | 848 | 13800 | | | | | |
| 3,723 | 376 | 2,31 | 912 | 457 | 2,77 | 751 | 13500 | | | | | |
| 3,360 | 417 | 2,38 | 823 | 506 | 2,86 | 678 | 13500 | | | | | |
| 3,039 | 461 | 2,38 | 744 | 559 | 2,86 | 613 | 13500 | | | | | |
| 2,752 | 509 | 2,43 | 674 | 618 | 2,92 | 555 | 13450 | | | | | |
| 2,495 | 561 | 2,43 | 611 | 681 | 2,92 | 503 | 13300 | | | | | |
| 2,263 | 619 | 2,43 | 554 | 751 | 2,92 | 456 | 13200 | | | | | |



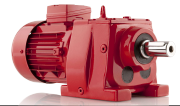
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|--|----|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | | | |
| 45 60 | 75,00 | 19 | 0,83 | 22002 | 23 | 1,00 | 18119 | 110000 | iRAM iRFM iRAFM | 153 / 225 M 4c | | | 361 362 363 | 1255 1305 1325 |
| | 67,98 | 21 | 0,93 | 19943 | 25 | 1,12 | 16424 | 110000 | | | | | | |
| | 59,07 | 24 | 1,05 | 17329 | 29 | 1,26 | 14271 | 110000 | | | | | | |
| | 52,03 | 27 | 1,20 | 15264 | 33 | 1,44 | 12571 | 110000 | | | | | | |
| | 44,27 | 32 | 1,41 | 12988 | 38 | 1,69 | 10696 | 110000 | | | | | | |
| | 38,46 | 36 | 1,51 | 11283 | 44 | 1,81 | 9292 | 110000 | | | | | | |
| | 35,19 | 40 | 1,66 | 10324 | 48 | 1,99 | 8502 | 110000 | | | | | | |
| | 27,50 | 51 | 2,10 | 8066 | 62 | 2,52 | 6643 | 110000 | | | | | | |
| | 23,62 | 59 | 2,50 | 6929 | 72 | 3,00 | 5706 | 110000 | | | | | | |
| | 28,55 | 49 | 1,89 | 8502 | 60 | 2,27 | 7002 | 110000 | | | | | | |
| | 25,93 | 54 | 2,06 | 7722 | 66 | 2,47 | 6359 | 110000 | | | | | | |
| | 23,57 | 59 | 2,30 | 7020 | 72 | 2,76 | 5781 | 110000 | | | | | | |
| | 21,09 | 66 | 2,55 | 6280 | 81 | 3,06 | 5172 | 110000 | | | | | | |
| | 19,00 | 74 | 2,88 | 5659 | 89 | 3,45 | 4660 | 110000 | | | | | | |
| | 17,22 | 81 | 3,12 | 5129 | 99 | 3,75 | 4224 | 110000 | | | | | | |
| | 15,69 | 89 | 3,45 | 4673 | 108 | 4,14 | 3848 | 110000 | | | | | | |
| | 14,35 | 98 | 3,80 | 4275 | 118 | 4,56 | 3521 | 110000 | | | | | | |
| | 55,48 | 25 | 0,83 | 16275 | 31 | 1,00 | 13403 | 60000 | | | | | | |
| | 49,79 | 28 | 0,93 | 14606 | 34 | 1,11 | 12028 | 60000 | | | | | | |
| | 44,88 | 31 | 1,03 | 13167 | 38 | 1,24 | 10843 | 60000 | | | | | | |
| | 40,61 | 34 | 1,10 | 11914 | 42 | 1,32 | 9811 | 60000 | | | | | | |
| | 36,86 | 38 | 1,23 | 10812 | 46 | 1,48 | 8904 | 60000 | | | | | | |
| | 33,53 | 42 | 1,37 | 9837 | 51 | 1,64 | 8101 | 60000 | | | | | | |
| | 27,90 | 50 | 1,63 | 8186 | 61 | 1,96 | 6741 | 60000 | | | | | | |
| | 23,32 | 60 | 1,93 | 6842 | 73 | 2,32 | 5635 | 60000 | | | | | | |
| | 20,02 | 70 | 2,18 | 5872 | 85 | 2,61 | 4835 | 60000 | | | | | | |
| | 20,02 | 70 | 1,86 | 5963 | 85 | 2,23 | 4911 | 60000 | | | | | | |
| | 18,16 | 77 | 2,05 | 5410 | 94 | 2,46 | 4455 | 60000 | | | | | | |
| | 16,20 | 86 | 2,33 | 4826 | 105 | 2,80 | 3974 | 60000 | | | | | | |
| | 14,56 | 96 | 2,60 | 4335 | 117 | 3,12 | 3570 | 60000 | | | | | | |
| | 12,77 | 110 | 3,21 | 3804 | 133 | 3,85 | 3133 | 60000 | | | | | | |
| | 11,40 | 123 | 3,62 | 3395 | 149 | 4,34 | 2796 | 60000 | | | | | | |
| | 26,15 | 54 | 1,03 | 7672 | 65 | 1,23 | 6318 | 42500 | | | | | | |
| | 23,69 | 59 | 1,12 | 6949 | 72 | 1,35 | 5722 | 41500 | | | | | | |
| | 21,52 | 65 | 1,22 | 6314 | 79 | 1,47 | 5199 | 41500 | | | | | | |
| | 19,60 | 71 | 1,37 | 5751 | 87 | 1,64 | 4736 | 41500 | | | | | | |
| | 17,89 | 78 | 1,50 | 5249 | 95 | 1,80 | 4323 | 41500 | | | | | | |
| | 26,28 | 53 | 1,00 | 7827 | 65 | 1,20 | 6446 | 40200 | | | | | | |
| | 23,77 | 59 | 1,10 | 7078 | 72 | 1,32 | 5829 | 40200 | | | | | | |
| | 19,85 | 71 | 1,33 | 5912 | 86 | 1,60 | 4869 | 40200 | | | | | | |
| | 17,47 | 80 | 1,50 | 5202 | 97 | 1,80 | 4284 | 40200 | | | | | | |
| | 15,50 | 90 | 1,70 | 4616 | 110 | 2,04 | 3802 | 40140 | | | | | | |
| 13,85 | 101 | 1,90 | 4124 | 123 | 2,28 | 3396 | 40210 | | | | | | | |
| 12,44 | 113 | 2,13 | 3704 | 137 | 2,56 | 3051 | 39100 | | | | | | | |
| 11,50 | 122 | 2,26 | 3423 | 148 | 2,71 | 2819 | 38900 | | | | | | | |
| 10,20 | 137 | 2,55 | 3038 | 167 | 3,06 | 2502 | 38440 | | | | | | | |
| 9,112 | 154 | 2,84 | 2714 | 187 | 3,40 | 2235 | 38000 | | | | | | | |
| 8,185 | 171 | 2,84 | 2438 | 208 | 3,40 | 2008 | 37800 | | | | | | | |
| 7,724 | 181 | 2,93 | 2300 | 220 | 3,52 | 1894 | 36200 | | | | | | | |
| 6,938 | 202 | 2,93 | 2066 | 245 | 3,52 | 1702 | 36200 | | | | | | | |
| 6,261 | 224 | 2,93 | 1865 | 272 | 3,52 | 1536 | 36200 | | | | | | | |
| 5,671 | 247 | 2,93 | 1689 | 300 | 3,52 | 1391 | 36200 | | | | | | | |
| 5,153 | 272 | 2,87 | 1535 | 330 | 3,44 | 1264 | 36000 | | | | | | | |
| 4,694 | 298 | 2,87 | 1398 | 362 | 3,44 | 1151 | 36000 | | | | | | | |
| 4,284 | 327 | 2,87 | 1276 | 397 | 3,44 | 1051 | 36000 | | | | | | | |
| | | | | | | | | | iRAM iRFM iRAFM | 122 / 225 M 4c | | | 319 320 321 | 596 598 626 |



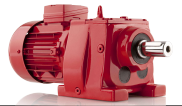
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 45 60 | 13,89 | 101 | 1,00 | 4136 | 122 | 1,20 | 3406 | 14000 | iRAM iRFM iRAFM | 102 / 225 M 4c | 301 302 303 | 500 503 525 |
| | 12,41 | 113 | 1,12 | 3695 | 137 | 1,35 | 3043 | 14000 | | | | |
| | 10,59 | 132 | 1,37 | 3152 | 161 | 1,64 | 2596 | 14000 | | | | |
| | 9,457 | 148 | 1,50 | 2817 | 180 | 1,80 | 2319 | 14000 | | | | |
| | 8,485 | 165 | 1,67 | 2527 | 200 | 2,00 | 2081 | 13800 | | | | |
| | 7,638 | 183 | 1,69 | 2275 | 223 | 2,02 | 1873 | 13800 | | | | |
| | 7,144 | 196 | 1,73 | 2128 | 238 | 2,07 | 1752 | 13800 | | | | |
| | 6,382 | 219 | 1,81 | 1901 | 266 | 2,17 | 1565 | 13500 | | | | |
| | 5,726 | 244 | 1,85 | 1705 | 297 | 2,22 | 1404 | 13500 | | | | |
| | 5,154 | 272 | 1,89 | 1535 | 330 | 2,27 | 1264 | 13500 | | | | |
| | 4,652 | 301 | 1,97 | 1385 | 365 | 2,37 | 1141 | 13500 | | | | |
| | 4,207 | 333 | 2,06 | 1253 | 404 | 2,47 | 1032 | 13500 | | | | |
| | 3,723 | 376 | 1,90 | 1109 | 457 | 2,28 | 913 | 13500 | | | | |
| | 3,360 | 417 | 1,96 | 1001 | 506 | 2,35 | 824 | 13300 | | | | |
| | 3,039 | 461 | 1,96 | 905 | 559 | 2,35 | 745 | 13300 | | | | |
| | 2,752 | 509 | 2,00 | 820 | 618 | 2,40 | 675 | 13000 | | | | |
| 2,495 | 561 | 2,00 | 743 | 681 | 2,40 | 612 | 13000 | | | | | |
| 2,263 | 619 | 2,00 | 674 | 751 | 2,40 | 555 | 13000 | | | | | |
| 55 75 | 59,07 | 24 | 0,86 | 21180 | 29 | 1,03 | 17442 | 110000 | iRAM iRFM iRAFM | 153 / 250 M 4c | 361 362 363 | 1345 1395 1415 |
| | 52,03 | 27 | 0,98 | 18656 | 33 | 1,18 | 15364 | 110000 | | | | |
| | 44,27 | 32 | 1,16 | 15874 | 38 | 1,39 | 13073 | 110000 | | | | |
| | 38,46 | 36 | 1,24 | 13791 | 44 | 1,49 | 11357 | 110000 | | | | |
| | 35,19 | 40 | 1,36 | 12618 | 48 | 1,63 | 10391 | 110000 | | | | |
| | 27,50 | 51 | 1,73 | 9859 | 62 | 2,08 | 8119 | 110000 | | | | |
| | 23,62 | 59 | 2,00 | 8468 | 72 | 2,40 | 6974 | 110000 | | | | |
| | 28,55 | 49 | 1,55 | 10391 | 60 | 1,86 | 8558 | 110000 | | | | |
| | 25,93 | 54 | 1,68 | 9438 | 66 | 2,02 | 7772 | 110000 | | | | |
| | 23,57 | 59 | 1,88 | 8580 | 72 | 2,26 | 7066 | 110000 | | | | |
| | 21,09 | 66 | 2,09 | 7675 | 81 | 2,50 | 6321 | 110000 | | | | |
| | 19,00 | 74 | 2,35 | 6916 | 89 | 2,83 | 5696 | 110000 | | | | |
| | 17,22 | 81 | 2,56 | 6269 | 99 | 3,07 | 5163 | 110000 | | | | |
| | 15,69 | 89 | 2,83 | 5711 | 108 | 3,39 | 4703 | 110000 | | | | |
| | 14,35 | 98 | 3,10 | 5225 | 118 | 3,72 | 4303 | 110000 | | | | |
| | 11,22 | 125 | 3,90 | 4083 | 152 | 4,68 | 3362 | 110000 | | | | |
| | 10,70 | 131 | 3,90 | 3893 | 159 | 4,68 | 3206 | 110000 | | | | |
| | 44,88 | 31 | 0,85 | 16093 | 38 | 1,01 | 13253 | 60000 | iRAM iRFM iRAFM | 143 / 250 M 4c | 337 338 339 | 890 904 930 |
| | 40,61 | 34 | 0,90 | 14561 | 42 | 1,08 | 11991 | 60000 | | | | |
| | 36,86 | 38 | 1,01 | 13215 | 46 | 1,21 | 10883 | 60000 | | | | |
| | 33,53 | 42 | 1,12 | 12022 | 51 | 1,34 | 9901 | 60000 | | | | |
| | 27,90 | 50 | 1,34 | 10005 | 61 | 1,60 | 8239 | 60000 | | | | |
| | 23,32 | 60 | 1,58 | 8362 | 73 | 1,90 | 6887 | 60000 | | | | |
| | 20,02 | 70 | 1,78 | 7176 | 85 | 2,14 | 5910 | 60000 | | | | |
| 20,02 | 70 | 1,52 | 7289 | 85 | 1,82 | 6002 | 60000 | | | | | |
| 18,16 | 77 | 1,68 | 6612 | 94 | 2,02 | 5445 | 60000 | | | | | |
| 16,20 | 86 | 1,91 | 5898 | 105 | 2,29 | 4857 | 60000 | | | | | |
| 14,56 | 96 | 2,13 | 5298 | 117 | 2,55 | 4363 | 60000 | | | | | |
| 12,77 | 110 | 2,62 | 4649 | 133 | 3,15 | 3829 | 60000 | | | | | |
| 11,40 | 123 | 2,96 | 4150 | 149 | 3,55 | 3417 | 60000 | | | | | |
| 10,23 | 137 | 3,30 | 3724 | 166 | 3,96 | 3067 | 60000 | | | | | |
| 9,222 | 152 | 3,44 | 3357 | 184 | 4,12 | 2764 | 60000 | | | | | |
| 8,344 | 168 | 3,68 | 3037 | 204 | 4,42 | 2501 | 60000 | | | | | |
| 7,573 | 185 | 3,76 | 2757 | 224 | 4,52 | 2270 | 60000 | | | | | |
| 6,890 | 203 | 4,09 | 2508 | 247 | 4,91 | 2065 | 60000 | | | | | |
| 5,733 | 244 | 4,50 | 2087 | 297 | 5,40 | 1719 | 60000 | | | | | |



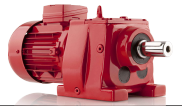
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|-----------------------|----------------|-------------------|----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg |
| 55 75 | 17,47 | 80 | 1,23 | 6358 | 97 | 1,47 | 5236 | 40500 | iRAM iRFM iRAFM | 122 / C225 M 4 | 319 320 321 | 626 628 656 |
| | 15,50 | 90 | 1,39 | 5642 | 110 | 1,67 | 4646 | 40500 | | | | |
| | 13,85 | 101 | 1,55 | 5040 | 123 | 1,87 | 4151 | 40500 | | | | |
| | 12,44 | 113 | 1,75 | 4528 | 137 | 2,09 | 3729 | 40140 | | | | |
| | 11,50 | 122 | 1,85 | 4184 | 148 | 2,22 | 3446 | 40140 | | | | |
| | 10,20 | 137 | 2,08 | 3713 | 167 | 2,50 | 3058 | 40210 | | | | |
| | 9,112 | 154 | 2,32 | 3317 | 187 | 2,79 | 2732 | 39100 | | | | |
| | 8,185 | 171 | 2,32 | 2979 | 208 | 2,79 | 2454 | 38900 | | | | |
| | 7,724 | 181 | 2,40 | 2812 | 220 | 2,88 | 2315 | 38440 | | | | |
| | 6,938 | 202 | 2,40 | 2525 | 245 | 2,88 | 2080 | 38000 | | | | |
| | 6,261 | 224 | 2,40 | 2279 | 272 | 2,88 | 1877 | 35600 | | | | |
| | 5,671 | 247 | 2,40 | 2064 | 300 | 2,88 | 1700 | 35600 | | | | |
| | 5,153 | 272 | 2,35 | 1876 | 330 | 2,81 | 1545 | 35600 | | | | |
| | 4,694 | 298 | 2,35 | 1709 | 362 | 2,81 | 1407 | 35600 | | | | |
| | 4,284 | 327 | 2,35 | 1559 | 397 | 2,81 | 1284 | 35000 | | | | |
| | 3,917 | 357 | 2,35 | 1426 | 434 | 2,81 | 1174 | 35000 | | | | |
| 3,585 | 391 | 2,35 | 1305 | 474 | 2,81 | 1075 | 35000 | | | | | |
| 3,284 | 426 | 2,35 | 1195 | 518 | 2,81 | 984 | 35000 | | | | | |
| 75 100 | 44,27 | 32 | 0,85 | 21647 | 38 | 1,02 | 17827 | 110000 | iRAM iRFM iRAFM | 153 / 280 S 4 | 361 362 363 | 1475 1525 1545 |
| | 38,46 | 36 | 0,90 | 18806 | 44 | 1,08 | 15487 | 110000 | | | | |
| | 35,19 | 40 | 1,00 | 17206 | 48 | 1,20 | 14170 | 110000 | | | | |
| | 27,50 | 51 | 1,27 | 13444 | 62 | 1,52 | 11071 | 110000 | | | | |
| | 23,62 | 59 | 1,50 | 11548 | 72 | 1,80 | 9510 | 110000 | | | | |
| | 19,00 | 74 | 1,73 | 9431 | 89 | 2,07 | 7767 | 110000 | | | | |
| | 17,22 | 81 | 1,87 | 8549 | 99 | 2,25 | 7040 | 110000 | | | | |
| | 15,69 | 89 | 2,07 | 7788 | 108 | 2,49 | 6413 | 110000 | | | | |
| | 14,35 | 98 | 2,30 | 7125 | 118 | 2,76 | 5868 | 110000 | | | | |
| | 11,22 | 125 | 2,90 | 5567 | 152 | 3,48 | 4585 | 110000 | | | | |
| | 10,70 | 131 | 2,80 | 5309 | 159 | 3,36 | 4372 | 110000 | | | | |
| | 9,744 | 144 | 3,10 | 4837 | 174 | 3,72 | 3983 | 110000 | | | | |
| | 8,915 | 157 | 3,40 | 4425 | 191 | 4,08 | 3644 | 110000 | | | | |
| | 8,186 | 171 | 3,70 | 4063 | 208 | 4,44 | 3346 | 110000 | | | | |
| | 27,90 | 50 | 0,98 | 13643 | 61 | 1,18 | 11235 | 60000 | | | | |
| | 23,32 | 60 | 1,16 | 11403 | 73 | 1,39 | 9391 | 60000 | | | | |
| | 20,02 | 70 | 1,31 | 9786 | 85 | 1,57 | 8059 | 60000 | | | | |
| | 14,56 | 96 | 1,56 | 7225 | 117 | 1,87 | 5950 | 60000 | | | | |
| | 12,77 | 110 | 1,92 | 6340 | 133 | 2,31 | 5221 | 60000 | | | | |
| | 11,40 | 123 | 2,17 | 5659 | 149 | 2,60 | 4660 | 60000 | | | | |
| 10,23 | 137 | 2,42 | 5078 | 166 | 2,90 | 4182 | 60000 | | | | | |
| 9,222 | 152 | 2,52 | 4578 | 184 | 3,02 | 3770 | 60000 | | | | | |
| 8,344 | 168 | 2,70 | 4142 | 204 | 3,24 | 3411 | 60000 | | | | | |
| 7,573 | 185 | 2,76 | 3759 | 224 | 3,31 | 3096 | 60000 | | | | | |
| 6,890 | 203 | 3,00 | 3420 | 247 | 3,60 | 2816 | 60000 | | | | | |
| 5,733 | 244 | 3,30 | 2846 | 297 | 3,96 | 2344 | 60000 | | | | | |
| 4,792 | 292 | 3,96 | 2379 | 355 | 4,75 | 1959 | 60000 | | | | | |
| 90 120 | 35,19 | 40 | 0,83 | 20647 | 48 | 1,00 | 17003 | 110000 | iRAM iRFM iRAFM | 153 / 280 M 4 | 361 362 363 | 1540 1590 1610 |
| | 27,50 | 51 | 1,06 | 16132 | 62 | 1,27 | 13285 | 110000 | | | | |
| | 23,62 | 59 | 1,24 | 13857 | 72 | 1,49 | 11412 | 110000 | | | | |
| | 19,00 | 74 | 1,44 | 11317 | 89 | 1,73 | 9320 | 110000 | | | | |
| | 17,22 | 81 | 1,45 | 10258 | 99 | 1,74 | 8448 | 110000 | | | | |
| | 15,69 | 89 | 1,72 | 9345 | 108 | 2,06 | 7696 | 110000 | | | | |
| | 14,35 | 98 | 1,89 | 8550 | 118 | 2,27 | 7041 | 110000 | | | | |
| | 11,22 | 125 | 2,40 | 6681 | 152 | 2,88 | 5502 | 110000 | | | | |
| | 10,70 | 131 | 2,40 | 6370 | 159 | 2,88 | 5246 | 110000 | | | | |



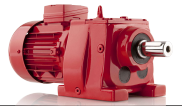
| P ₁ Power Potencia [kW] Hp | i Ratio Relación de transmisión | 50 Hz | | | 60 Hz | | | F _{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|--|-----------------------|--|-----------------------|
| | | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | n ₂ Output Speeds Velocidad de salida [r.p.m] | S _f Service Factor Factor de servicio | M ₂ Output Torque Par de salida [Nm] | | | | | kg | |
| 90 120 | 9,744 | 144 | 2,60 | 5804 | 174 | 3,12 | 4780 | 110000 | İRAM İRFM İRAFM | 152 / 280 M 4 | 361 | 1465 | |
| | 8,915 | 157 | 2,80 | 5310 | 191 | 3,36 | 4373 | 110000 | | | 362 | 1515 | |
| | 8,186 | 171 | 3,10 | 4876 | 208 | 3,72 | 4016 | 110000 | | | 363 | 1535 | |
| | | 6,965 | 201 | 3,60 | 4149 | 244 | 4,32 | 3417 | 110000 | İRAM İRFM İRAFM | 142 / 280 M 4 | | |
| | | 5,983 | 234 | 4,20 | 3564 | 284 | 5,04 | 2935 | 110000 | | | | |
| | | 14,56 | 96 | 1,30 | 8670 | 117 | 1,56 | 7140 | 60000 | | | | |
| | | 12,77 | 110 | 1,60 | 7608 | 133 | 1,92 | 6265 | 60000 | | | | |
| | | 11,40 | 123 | 1,81 | 6790 | 149 | 2,17 | 5592 | 60000 | | | | |
| | | 10,23 | 137 | 2,01 | 6093 | 166 | 2,42 | 5018 | 60000 | | | | |
| | | 9,222 | 152 | 2,10 | 5493 | 184 | 2,52 | 4524 | 60000 | | | | |
| | | 8,344 | 168 | 2,25 | 4970 | 204 | 2,70 | 4093 | 60000 | | | | |
| | | 7,573 | 185 | 2,30 | 4511 | 224 | 2,76 | 3715 | 60000 | | | | |
| | | 6,890 | 203 | 2,50 | 4104 | 247 | 3,00 | 3380 | 60000 | | | | |
| | 5,733 | 244 | 2,75 | 3415 | 297 | 3,30 | 2812 | 60000 | | | | | |
| | 4,792 | 292 | 3,30 | 2854 | 355 | 3,96 | 2351 | 60000 | | | | | |
| 110 150 | 27,50 | 51 | 0,87 | 19717 | 62 | 1,04 | 16238 | 110000 | İRAM İRFM İRAFM | 153 / 315 S 4 | 361 | 1709 | |
| | 23,62 | 59 | 1,02 | 16936 | 72 | 1,22 | 13948 | 110000 | | | 362 | 1759 | |
| | 17,22 | 81 | 1,19 | 12538 | 99 | 1,43 | 10325 | 110000 | | | 363 | 1779 | |
| | | 15,69 | 89 | 1,41 | 11422 | 108 | 1,69 | 9406 | 110000 | İRAM İRFM İRAFM | 152 / 315 S 4 | | |
| | | 14,35 | 98 | 1,55 | 10450 | 118 | 1,86 | 8606 | 110000 | | | | |
| | | 11,22 | 125 | 1,98 | 8165 | 152 | 2,38 | 6724 | 110000 | | | | |
| | | 10,70 | 131 | 1,95 | 7786 | 159 | 2,34 | 6412 | 110000 | | | | |
| | | 9,744 | 144 | 2,10 | 7094 | 174 | 2,52 | 5842 | 110000 | | | | |
| | | 8,915 | 157 | 2,30 | 6490 | 191 | 2,76 | 5345 | 110000 | | | | |
| | | 8,186 | 171 | 2,50 | 5960 | 208 | 3,00 | 4908 | 110000 | | | | |
| | | 6,965 | 201 | 2,90 | 5071 | 244 | 3,48 | 4176 | 110000 | | | | |
| | | 5,983 | 234 | 3,40 | 4356 | 284 | 4,08 | 3587 | 110000 | | | | |
| | 132 180 | 23,62 | 59 | 0,85 | 20324 | 72 | 1,02 | 16737 | 110000 | | | İRAM İRFM İRAFM | 153 / 315 M 4a |
| | | 11,22 | 125 | 1,65 | 9799 | 152 | 1,98 | 8069 | 110000 | 362 | 1836 | | |
| | | 10,70 | 131 | 1,62 | 9343 | 159 | 1,94 | 7695 | 110000 | 363 | 1856 | | |
| | | 9,744 | 144 | 1,76 | 8513 | 174 | 2,11 | 7010 | 110000 | İRAM İRFM İRAFM | 152 / 315 M 4a | 361 | 1711 |
| | | 8,915 | 157 | 1,93 | 7788 | 191 | 2,32 | 6414 | 110000 | | | 362 | 1761 |
| | | 8,186 | 171 | 2,10 | 7151 | 208 | 2,52 | 5889 | 110000 | | | 363 | 1781 |
| | | 6,965 | 201 | 2,40 | 6085 | 244 | 2,88 | 5011 | 110000 | | | | |
| | | 5,983 | 234 | 2,80 | 5227 | 284 | 3,36 | 4304 | 110000 | | | | |
| | | 11,22 | 125 | 1,36 | 11877 | 152 | 1,63 | 9781 | 110000 | | | | |
| 160 218 | 10,70 | 131 | 1,34 | 11325 | 159 | 1,61 | 9327 | 110000 | İRAM İRFM İRAFM | 152 / 315 M 4b | 361 | 1732 | |
| | 9,744 | 144 | 1,45 | 10318 | 174 | 1,74 | 8497 | 110000 | | | 362 | 1782 | |
| | 8,915 | 157 | 1,60 | 9440 | 191 | 1,92 | 7774 | 110000 | | | 363 | 1802 | |
| | 8,186 | 171 | 1,73 | 8668 | 208 | 2,08 | 7139 | 110000 | | | | | |
| | 6,965 | 201 | 2,00 | 7375 | 244 | 2,40 | 6074 | 110000 | | | | | |
| | 5,983 | 234 | 2,30 | 6336 | 284 | 2,76 | 5218 | 110000 | | | | | |



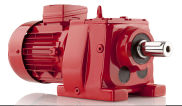
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|-----------------------------|-----------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 85 Nm | 81,37 | 0,32 | 34 | 0,39 | 42 | 85 | 390 | 2100 | IRA IRF IRAF | 43 | 175 176 177 | 10 11 12 |
| | 70,05 | 0,37 | 40 | 0,45 | 49 | 85 | 390 | 2100 | | | | |
| | 60,90 | 0,43 | 46 | 0,52 | 56 | 85 | 390 | 2100 | | | | |
| | 53,33 | 0,49 | 53 | 0,59 | 64 | 85 | 390 | 2100 | | | | |
| | 46,98 | 0,56 | 60 | 0,67 | 72 | 85 | 390 | 2100 | | | | |
| | 41,85 | 0,62 | 67 | 0,76 | 81 | 85 | 390 | 2100 | | | | |
| | 36,38 | 0,72 | 77 | 0,87 | 93 | 85 | 390 | 2100 | | | | |
| | 31,86 | 0,82 | 88 | 0,99 | 107 | 85 | 390 | 2100 | | | | |
| | 28,06 | 0,93 | 100 | 1,1 | 121 | 85 | 390 | 2100 | | | | |
| | 26,19 | 1,00 | 107 | 1,2 | 130 | 85 | 390 | 2100 | | | | |
| | 24,83 | 1,1 | 113 | 1,3 | 137 | 85 | 390 | 2000 | | | | |
| | 22,62 | 1,2 | 124 | 1,4 | 150 | 85 | 390 | 2000 | | | | |
| | 21,11 | 1,2 | 133 | 1,5 | 161 | 85 | 390 | 2000 | | | | |
| | 20,01 | 1,3 | 140 | 1,6 | 170 | 85 | 390 | 2000 | | | | |
| | 18,59 | 1,4 | 151 | 1,7 | 183 | 85 | 390 | 2000 | | | | |
| | 17,76 | 1,5 | 158 | 1,8 | 191 | 85 | 390 | 1850 | | | | |
| | 16,45 | 1,6 | 170 | 1,9 | 207 | 85 | 390 | 1850 | | | | |
| | 15,81 | 1,6 | 177 | 2,0 | 215 | 85 | 390 | 1850 | | | | |
| | 14,60 | 1,8 | 192 | 2,2 | 233 | 85 | 390 | 1850 | | | | |
| | 14,09 | 1,9 | 199 | 2,2 | 241 | 85 | 390 | 1800 | | | | |
| | 13,00 | 2,0 | 215 | 2,4 | 262 | 85 | 390 | 1800 | | | | |
| | 11,58 | 2,3 | 242 | 2,7 | 294 | 85 | 390 | 1800 | | | | |
| | 11,24 | 2,3 | 249 | 2,8 | 302 | 85 | 390 | 800 | | | | |
| | 9,845 | 2,6 | 284 | 3,2 | 345 | 85 | 390 | 800 | | | | |
| | 8,672 | 3,0 | 323 | 3,6 | 392 | 85 | 390 | 800 | | | | |
| | 7,673 | 3,3 | 365 | 4,1 | 443 | 85 | 390 | 750 | | | | |
| | 6,872 | 3,7 | 407 | 4,5 | 495 | 85 | 390 | 750 | | | | |
| | 6,080 | 4,2 | 461 | 5,1 | 559 | 85 | 390 | 750 | | | | |
| | 5,538 | 4,6 | 506 | 5,6 | 614 | 85 | 390 | 750 | | | | |
| | 5,398 | 4,8 | 519 | 5,8 | 630 | 85 | 390 | 750 | | | | |
| 4,900 | 5,2 | 571 | 6,4 | 694 | 85 | 390 | 750 | | | | | |
| 4,803 | 5,3 | 583 | 6,5 | 708 | 85 | 390 | 750 | | | | | |
| 4,350 | 5,9 | 644 | 7,2 | 782 | 85 | 390 | 750 | | | | | |
| 4,280 | 6,0 | 654 | 7,3 | 794 | 85 | 390 | 750 | | | | | |
| 3,870 | 6,6 | 724 | 8,1 | 879 | 85 | 390 | 750 | | | | | |
| 3,449 | 7,4 | 812 | 9,0 | 986 | 85 | 390 | 750 | | | | | |
| 150 Nm | 8598 | 0,01 | 0,33 | 0,01 | 0,40 | 150 | 390 | 4250 | IRA IRF IRAF | 53 IR 43 | 187 188 189 | 26 28 29 |
| | 7402 | 0,01 | 0,38 | 0,01 | 0,46 | 150 | 390 | 4250 | | | | |
| | 6435 | 0,01 | 0,44 | 0,01 | 0,53 | 150 | 390 | 4250 | | | | |
| | 5419 | 0,01 | 0,52 | 0,01 | 0,63 | 150 | 390 | 4250 | | | | |
| | 4699 | 0,01 | 0,60 | 0,01 | 0,72 | 150 | 390 | 4250 | | | | |
| | 4117 | 0,01 | 0,68 | 0,01 | 0,83 | 150 | 390 | 4250 | | | | |
| | 3338 | 0,01 | 0,84 | 0,02 | 1,02 | 150 | 390 | 4250 | | | | |
| | 2948 | 0,02 | 0,95 | 0,02 | 1,15 | 150 | 390 | 4250 | | | | |
| | 2679 | 0,02 | 1,05 | 0,02 | 1,27 | 150 | 390 | 4250 | | | | |
| | 2346 | 0,02 | 1,19 | 0,02 | 1,45 | 150 | 390 | 4250 | | | | |
| | 2085 | 0,02 | 1,34 | 0,03 | 1,63 | 150 | 390 | 4250 | | | | |
| | 1863 | 0,03 | 1,50 | 0,03 | 1,83 | 150 | 390 | 4250 | | | | |
| | 1641 | 0,03 | 1,71 | 0,04 | 2,07 | 150 | 390 | 4250 | | | | |
| | 1462 | 0,03 | 1,92 | 0,04 | 2,33 | 150 | 390 | 4250 | | | | |
| | 1271 | 0,04 | 2,20 | 0,05 | 2,68 | 150 | 390 | 4250 | | | | |
| | 1204 | 0,04 | 2,33 | 0,05 | 2,82 | 150 | 390 | 4250 | | | | |
| | 1046 | 0,05 | 2,68 | 0,06 | 3,25 | 150 | 390 | 4250 | | | | |
| | 917 | 0,05 | 3,05 | 0,06 | 3,71 | 150 | 390 | 4250 | | | | |
| | 809 | 0,06 | 3,46 | 0,07 | 4,20 | 150 | 390 | 4250 | | | | |
| | | | | | | | | | | | | |



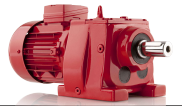
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | | | | | |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|----------|--------------------|----------|--------------------|------|--------------------|-----|------|--------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | | | | | | | |
| | | 150 Nm | 709 | 0,07 | 3,95 | | | | | | | | 0,08 | 4,80 | 150 | 390 | 4250 | İRA İRF İRAF |
| 630 | 0,08 | | 4,44 | 0,09 | 5,40 | 150 | 390 | 4250 | 188 | 27 | | | | | | | | |
| 555 | 0,09 | | 5,05 | 0,10 | 6,13 | 150 | 390 | 4250 | 189 | 28 | | | | | | | | |
| 496 | 0,10 | | 5,65 | 0,12 | 6,85 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 42 | 187 | 25 | | | | | | |
| 1188 | 0,04 | | 2,36 | 0,05 | 2,86 | 150 | 390 | 4250 | | | 188 | 27 | | | | | | |
| 1040 | 0,05 | | 2,69 | 0,06 | 3,27 | 150 | 390 | 4250 | | | 189 | 28 | | | | | | |
| 916 | 0,05 | | 3,06 | 0,06 | 3,71 | 150 | 390 | 4250 | | | İRA İRF İRAF | 52 İR 42 | 187 | 24 | | | | |
| 878 | 0,05 | | 3,19 | 0,07 | 3,87 | 150 | 390 | 4250 | | | | | 188 | 26 | | | | |
| 772 | 0,06 | | 3,63 | 0,07 | 4,40 | 150 | 390 | 4250 | | | | | 189 | 27 | | | | |
| 669 | 0,07 | | 4,19 | 0,09 | 5,08 | 150 | 390 | 4250 | | | | | İRA İRF İRAF | 53 | 181 | 16 | | |
| 586 | 0,08 | | 4,78 | 0,10 | 5,80 | 150 | 390 | 4250 | | | | | | | 182 | 18 | | |
| 519 | 0,09 | | 5,39 | 0,11 | 6,55 | 150 | 390 | 4250 | | | | | | | 183 | 19 | | |
| 421 | 0,11 | | 6,65 | 0,14 | 8,08 | 150 | 390 | 4250 | | | | | | | İRA İRF İRAF | 52 | 181 | 15 |
| 377 | 0,13 | | 7,43 | 0,15 | 9,02 | 150 | 390 | 4250 | | | | | | | | | 182 | 17 |
| 333 | 0,14 | | 8,41 | 0,17 | 10 | 150 | 390 | 4250 | | | | | | | | | 183 | 18 |
| 294 | 0,16 | | 9,52 | 0,20 | 12 | 150 | 390 | 4250 | 183 | 18 | | | | | | | | |
| 267 | 0,18 | | 10 | 0,22 | 13 | 150 | 390 | 4250 | 181 | 16 | | | | | | | | |
| 238 | 0,20 | | 12 | 0,24 | 14 | 150 | 390 | 4250 | 182 | 17 | | | | | | | | |
| 193 | 0,24 | | 15 | 0,29 | 18 | 150 | 390 | 4250 | İRA İRF İRAF | 52 | 181 | 15 | | | | | | |
| 169 | 0,28 | | 17 | 0,34 | 20 | 150 | 390 | 4250 | | | 182 | 17 | | | | | | |
| 148 | 0,32 | | 19 | 0,38 | 23 | 150 | 390 | 4250 | | | 183 | 18 | | | | | | |
| 131 | 0,36 | | 21 | 0,43 | 26 | 150 | 390 | 4250 | | | 181 | 15 | | | | | | |
| 116 | 0,40 | | 24 | 0,49 | 29 | 150 | 390 | 4250 | | | 182 | 17 | | | | | | |
| 106 | 0,44 | | 26 | 0,53 | 32 | 150 | 475 | 4250 | | | 183 | 18 | | | | | | |
| 88,98 | 0,52 | | 31 | 0,63 | 38 | 150 | 475 | 4250 | | | 181 | 15 | | | | | | |
| 77,17 | 0,60 | | 36 | 0,72 | 44 | 150 | 475 | 4250 | | | 182 | 17 | | | | | | |
| 67,60 | 0,68 | | 41 | 0,83 | 50 | 150 | 475 | 4250 | | | 183 | 18 | | | | | | |
| 54,82 | 0,84 | | 51 | 1,0 | 62 | 150 | 475 | 4250 | | | 181 | 15 | | | | | | |
| 48,41 | 0,95 | | 58 | 1,2 | 70 | 150 | 475 | 4250 | | | 182 | 17 | | | | | | |
| 43,99 | 1,0 | | 64 | 1,3 | 77 | 150 | 475 | 4250 | | | 183 | 18 | | | | | | |
| 39,10 | 1,2 | | 72 | 1,4 | 87 | 150 | 475 | 4250 | | | 181 | 15 | | | | | | |
| 34,93 | 1,3 | | 80 | 1,6 | 97 | 150 | 475 | 4250 | | | 182 | 17 | | | | | | |
| 31,34 | 1,5 | | 89 | 1,8 | 108 | 150 | 475 | 4250 | | | 183 | 18 | | | | | | |
| 28,21 | 1,6 | | 99 | 2,0 | 121 | 150 | 475 | 4250 | | | 181 | 15 | | | | | | |
| 25,46 | 1,8 | | 110 | 2,2 | 134 | 150 | 475 | 4250 | | | 182 | 17 | | | | | | |
| 23,03 | 2,0 | | 122 | 2,4 | 148 | 150 | 475 | 4250 | | | 183 | 18 | | | | | | |
| 21,88 | 2,1 | | 128 | 2,6 | 155 | 150 | 475 | 4250 | 181 | 15 | | | | | | | | |
| 19,70 | 2,3 | | 142 | 2,8 | 173 | 150 | 475 | 4250 | 182 | 17 | | | | | | | | |
| 17,78 | 2,6 | | 158 | 3,1 | 191 | 150 | 475 | 4250 | 183 | 18 | | | | | | | | |
| 16,08 | 2,9 | | 174 | 3,5 | 211 | 150 | 475 | 4250 | 181 | 15 | | | | | | | | |
| 17,18 | 2,6 | | 163 | 3,2 | 198 | 150 | 475 | 3500 | 182 | 17 | | | | | | | | |
| 15,05 | 3,0 | | 186 | 3,7 | 226 | 150 | 475 | 3500 | 183 | 18 | | | | | | | | |
| 13,29 | 3,4 | 211 | 4,1 | 256 | 150 | 475 | 3500 | 181 | 15 | | | | | | | | | |
| 11,81 | 3,8 | 237 | 4,7 | 288 | 150 | 475 | 3500 | 182 | 17 | | | | | | | | | |
| 10,56 | 4,3 | 265 | 5,2 | 322 | 150 | 475 | 3500 | 183 | 18 | | | | | | | | | |
| 9,470 | 4,8 | 296 | 5,8 | 359 | 150 | 475 | 3500 | 181 | 15 | | | | | | | | | |
| 8,888 | 5,1 | 315 | 6,2 | 383 | 150 | 475 | 3500 | 182 | 17 | | | | | | | | | |
| 7,974 | 5,7 | 351 | 6,9 | 426 | 150 | 475 | 3500 | 183 | 18 | | | | | | | | | |
| 7,178 | 6,3 | 390 | 7,7 | 474 | 150 | 475 | 3500 | 181 | 15 | | | | | | | | | |
| 6,479 | 7,0 | 432 | 8,5 | 525 | 150 | 475 | 3500 | 182 | 17 | | | | | | | | | |
| 5,821 | 7,8 | 481 | 9,5 | 584 | 150 | 475 | 3500 | 183 | 18 | | | | | | | | | |
| 5,254 | 8,6 | 533 | 10,5 | 647 | 150 | 475 | 3500 | 181 | 15 | | | | | | | | | |
| 5,032 | 9,0 | 556 | 10,9 | 676 | 150 | 475 | 3500 | 182 | 17 | | | | | | | | | |
| 4,515 | 10,0 | 620 | 12,2 | 753 | 150 | 475 | 3500 | 183 | 18 | | | | | | | | | |
| 4,064 | 11,2 | 689 | 13,5 | 837 | 150 | 475 | 3500 | 181 | 15 | | | | | | | | | |



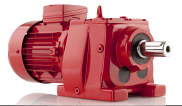
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 150 Nm | 3,668 | 12,4 | 763 | 15,0 | 927 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | 181 182 183 | 15 17 18 |
| | 3,317 | 13,7 | 844 | 16,6 | 1025 | 150 | 475 | 3500 | | | | |
| | 3,059 | 14,8 | 915 | 18,0 | 1111 | 150 | 475 | 3500 | | | | |
| | 2,906 | 15,6 | 964 | 18,9 | 1170 | 150 | 475 | 3500 | | | | |
| | 2,572 | 17,6 | 1089 | 21,4 | 1322 | 150 | 475 | 3500 | | | | |
| 300 Nm | 128 | 0,72 | 22 | 0,87 | 27 | 300 | 590 | 7000 | İRA İRF İRAF | 631 | 193 194 195 | 29 34 35 |
| | 119 | 0,77 | 23 | 0,94 | 28 | 300 | 590 | 7000 | | | | |
| | 96,27 | 0,96 | 29 | 1,2 | 35 | 300 | 590 | 7000 | | | | |
| | 87,81 | 1,0 | 32 | 1,3 | 39 | 300 | 590 | 7000 | | | | |
| | 83,37 | 1,1 | 34 | 1,3 | 41 | 300 | 590 | 7000 | | | | |
| | 70,96 | 1,3 | 39 | 1,6 | 48 | 300 | 590 | 7000 | | | | |
| | 61,03 | 1,5 | 46 | 1,8 | 56 | 300 | 590 | 7000 | | | | |
| | 51,65 | 1,8 | 54 | 2,2 | 66 | 300 | 590 | 7000 | | | | |
| | 46,79 | 2,0 | 60 | 2,4 | 73 | 300 | 590 | 7000 | | | | |
| | 42,55 | 2,2 | 66 | 2,6 | 80 | 300 | 590 | 7000 | | | | |
| | 35,74 | 2,6 | 78 | 3,1 | 95 | 300 | 590 | 7000 | | | | |
| | 29,85 | 3,1 | 94 | 3,7 | 114 | 300 | 590 | 7000 | | | | |
| | 25,16 | 3,7 | 111 | 4,4 | 135 | 300 | 590 | 7000 | | | | |
| | 21,50 | 4,3 | 130 | 5,2 | 158 | 300 | 590 | 7000 | | | | |
| | 20,53 | 4,5 | 136 | 5,4 | 166 | 300 | 590 | 7000 | | | | |
| | 18,18 | 5,1 | 154 | 6,1 | 187 | 300 | 590 | 7000 | | | | |
| | 15,59 | 5,9 | 180 | 7,2 | 218 | 300 | 590 | 7000 | | | | |
| | 13,81 | 6,7 | 203 | 8,1 | 246 | 300 | 590 | 7000 | | | | |
| | 16,67 | 5,4 | 168 | 6,6 | 204 | 300 | 590 | 7000 | | | | |
| | 15,13 | 6,0 | 185 | 7,3 | 225 | 300 | 590 | 7000 | | | | |
| | 13,48 | 6,7 | 208 | 8,2 | 252 | 300 | 590 | 7000 | | | | |
| | 12,21 | 7,4 | 229 | 9,0 | 279 | 300 | 590 | 7000 | | | | |
| | 11,10 | 8,2 | 252 | 9,9 | 306 | 300 | 590 | 7000 | | | | |
| | 10,07 | 9,0 | 278 | 10,9 | 338 | 300 | 590 | 7000 | | | | |
| | 9,358 | 9,7 | 299 | 11,8 | 363 | 300 | 590 | 7000 | | | | |
| | 8,510 | 10,7 | 329 | 12,9 | 400 | 300 | 590 | 7000 | | | | |
| | 7,673 | 11,8 | 365 | 14,3 | 443 | 300 | 590 | 7000 | | | | |
| | 7,108 | 12,8 | 394 | 15,5 | 478 | 300 | 590 | 7000 | | | | |
| | 6,480 | 14,0 | 432 | 17,0 | 525 | 300 | 590 | 7000 | | | | |
| | 5,992 | 15,1 | 467 | 18,4 | 567 | 300 | 590 | 7000 | | | | |
| | 5,723 | 15,8 | 489 | 19,2 | 594 | 300 | 590 | 7000 | | | | |
| | 5,325 | 17,0 | 526 | 20,7 | 638 | 300 | 590 | 7000 | | | | |
| | 5,060 | 17,9 | 553 | 21,8 | 672 | 300 | 590 | 7000 | | | | |
| | 4,499 | 20,2 | 622 | 24,5 | 756 | 300 | 590 | 7000 | | | | |
| | 3,998 | 22,7 | 700 | 27,5 | 850 | 300 | 590 | 7000 | | | | |
| 3,711 | 24,4 | 755 | 29,7 | 916 | 300 | 590 | 7000 | | | | | |
| 3,287 | 27,6 | 852 | 33,5 | 1034 | 300 | 590 | 7000 | | | | | |
| 2,917 | 31,1 | 960 | 37,7 | 1166 | 300 | 590 | 7000 | | | | | |
| 2,592 | 35,0 | 1080 | 42,5 | 1312 | 300 | 590 | 7000 | | | | | |
| 2,444 | 37,1 | 1146 | 45,0 | 1391 | 300 | 590 | 7000 | | | | | |
| 410 Nm | 13520 | 0,01 | 0,21 | 0,01 | 0,25 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 224 225 | 44 49 50 |
| | 12617 | 0,01 | 0,22 | 0,01 | 0,27 | 410 | 475 | 7000 | | | | |
| | 11345 | 0,01 | 0,25 | 0,01 | 0,30 | 410 | 475 | 7000 | | | | |
| | 10587 | 0,01 | 0,26 | 0,02 | 0,32 | 410 | 475 | 7000 | | | | |
| | 9873 | 0,01 | 0,28 | 0,02 | 0,34 | 410 | 475 | 7000 | | | | |
| | 9214 | 0,01 | 0,30 | 0,02 | 0,37 | 410 | 475 | 7000 | | | | |
| | 7479 | 0,02 | 0,37 | 0,02 | 0,45 | 410 | 475 | 7000 | | | | |
| | 6508 | 0,02 | 0,43 | 0,02 | 0,52 | 410 | 475 | 7000 | | | | |
| | 6194 | 0,02 | 0,45 | 0,03 | 0,55 | 410 | 475 | 7000 | | | | |
| | 5936 | 0,02 | 0,47 | 0,03 | 0,57 | 410 | 475 | 7000 | | | | |
| | 5780 | 0,02 | 0,48 | 0,03 | 0,59 | 410 | 475 | 7000 | | | | |
| | 5636 | 0,02 | 0,50 | 0,03 | 0,60 | 410 | 475 | 7000 | | | | |



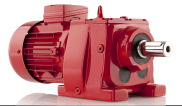
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-----|----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 410 Nm | 4814 | 0,03 | 0,58 | 0,03 | 0,71 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 | 44 |
| | 4661 | 0,03 | 0,60 | 0,03 | 0,73 | 410 | 475 | 7000 | | | | |
| | 4570 | 0,03 | 0,61 | 0,03 | 0,74 | 410 | 475 | 7000 | | | | |
| | 4251 | 0,03 | 0,66 | 0,04 | 0,80 | 410 | 475 | 7000 | | | | |
| | 4036 | 0,03 | 0,69 | 0,04 | 0,84 | 410 | 475 | 7000 | | | | |
| | 3890 | 0,03 | 0,72 | 0,04 | 0,87 | 410 | 475 | 7000 | | | | |
| | 3436 | 0,04 | 0,81 | 0,05 | 0,99 | 410 | 475 | 7000 | | | | |
| | 2955 | 0,04 | 0,95 | 0,05 | 1,15 | 410 | 475 | 7000 | | | | |
| | 2685 | 0,05 | 1,04 | 0,06 | 1,27 | 410 | 475 | 7000 | | | | |
| | 2500 | 0,05 | 1,12 | 0,06 | 1,36 | 410 | 475 | 7000 | | | | |
| | 2198 | 0,06 | 1,27 | 0,07 | 1,55 | 410 | 475 | 7000 | | | | |
| | 2052 | 0,06 | 1,36 | 0,08 | 1,66 | 410 | 475 | 7000 | | | | |
| | 1797 | 0,07 | 1,56 | 0,09 | 1,89 | 410 | 475 | 7000 | | | | |
| | 1701 | 0,08 | 1,65 | 0,09 | 2,00 | 410 | 475 | 7000 | | | | |
| | 1654 | 0,08 | 1,69 | 0,10 | 2,06 | 410 | 475 | 7000 | | | | |
| | 1587 | 0,08 | 1,76 | 0,10 | 2,14 | 410 | 475 | 7000 | | | | |
| | 1509 | 0,09 | 1,86 | 0,10 | 2,25 | 410 | 475 | 7000 | | | | |
| | 1432 | 0,09 | 1,96 | 0,11 | 2,37 | 410 | 475 | 7000 | | | | |
| | 1280 | 0,10 | 2,19 | 0,12 | 2,66 | 410 | 475 | 7000 | | | | |
| | 1219 | 0,11 | 2,30 | 0,13 | 2,79 | 410 | 475 | 7000 | | | | |
| | 1167 | 0,11 | 2,40 | 0,13 | 2,91 | 410 | 475 | 7000 | | | | |
| | 1108 | 0,12 | 2,53 | 0,14 | 3,07 | 410 | 475 | 7000 | | | | |
| | 1049 | 0,12 | 2,67 | 0,15 | 3,24 | 410 | 475 | 7000 | | | | |
| | 943 | 0,14 | 2,97 | 0,17 | 3,61 | 410 | 475 | 7000 | | | | |
| | 887 | 0,15 | 3,16 | 0,18 | 3,83 | 410 | 475 | 7000 | | | | |
| | 811 | 0,16 | 3,45 | 0,19 | 4,19 | 410 | 475 | 7000 | | | | |
| | 804 | 0,16 | 3,48 | 0,20 | 4,23 | 410 | 475 | 7000 | | | | |
| | 731 | 0,18 | 3,83 | 0,22 | 4,65 | 410 | 475 | 7000 | | | | |
| | 686 | 0,19 | 4,08 | 0,23 | 4,96 | 410 | 475 | 7000 | | | | |
| | 622 | 0,21 | 4,50 | 0,25 | 5,47 | 410 | 475 | 7000 | | | | |
| | 614 | 0,21 | 4,56 | 0,26 | 5,54 | 410 | 475 | 7000 | | | | |
| | 566 | 0,23 | 4,95 | 0,28 | 6,01 | 410 | 475 | 7000 | | | | |
| | 538 | 0,24 | 5,20 | 0,29 | 6,32 | 410 | 475 | 7000 | | | | |
| | 475 | 0,27 | 5,89 | 0,33 | 7,16 | 410 | 475 | 7000 | | | | |
| | 449 | 0,29 | 6,24 | 0,35 | 7,57 | 410 | 475 | 7000 | | | | |
| | 424 | 0,30 | 6,60 | 0,37 | 8,01 | 410 | 475 | 7000 | | | | |
| | 396 | 0,32 | 7,07 | 0,39 | 8,59 | 410 | 475 | 7000 | | | | |
| | 319 | 0,40 | 8,77 | 0,49 | 11 | 410 | 475 | 7000 | | | | |
| | 291 | 0,44 | 9,62 | 0,53 | 12 | 410 | 475 | 7000 | | | | |
| | 276 | 0,46 | 10 | 0,56 | 12 | 410 | 475 | 7000 | | | | |
| | 235 | 0,54 | 12 | 0,66 | 14 | 410 | 475 | 7000 | | | | |
| | 214 | 0,60 | 13 | 0,73 | 16 | 410 | 475 | 7000 | | | | |
| 182 | 0,70 | 15 | 0,85 | 19 | 410 | 475 | 7000 | | | | | |
| 157 | 0,82 | 18 | 0,99 | 22 | 410 | 475 | 7000 | | | | | |
| 132 | 0,96 | 21 | 1,2 | 26 | 410 | 475 | 7000 | | | | | |
| 128 | 0,98 | 22 | 1,2 | 27 | 410 | 590 | 7000 | | | | | |
| 119 | 1,1 | 23 | 1,3 | 28 | 410 | 590 | 7000 | | | | | |
| 96,27 | 1,3 | 29 | 1,6 | 35 | 410 | 590 | 7000 | | | | | |
| 87,81 | 1,4 | 32 | 1,7 | 39 | 410 | 590 | 7000 | | | | | |
| 83,37 | 1,5 | 34 | 1,8 | 41 | 410 | 590 | 7000 | | | | | |
| 70,96 | 1,8 | 39 | 2,2 | 48 | 410 | 590 | 7000 | | | | | |
| 61,03 | 2,1 | 46 | 2,5 | 56 | 410 | 590 | 7000 | | | | | |
| 51,65 | 2,4 | 54 | 3,0 | 66 | 410 | 590 | 7000 | | | | | |
| 46,79 | 2,7 | 60 | 3,3 | 73 | 410 | 590 | 7000 | | | | | |
| 42,55 | 3,0 | 66 | 3,6 | 80 | 410 | 590 | 7000 | | | | | |
| 35,74 | 3,5 | 78 | 4,3 | 95 | 410 | 590 | 7000 | | | | | |
| 29,85 | 4,2 | 94 | 5,1 | 114 | 410 | 590 | 7000 | | | | | |
| | | | | | | | | İRA İRF İRAF | 63 | 211 | 29 | |
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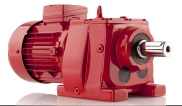
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|----------------|--------------------|------------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 410 Nm | 25,16 | 5,0 | 111 | 6,1 | 135 | 410 | 590 | 7000 | İRA İRF İRAF | 63 | 211 | 29 | | | | |
| | 21,50 | 5,9 | 130 | 7,1 | 158 | 410 | 590 | 7000 | | | 212 | 34 | | | | |
| | 20,53 | 6,1 | 136 | 7,4 | 166 | 410 | 590 | 7000 | | | 213 | 35 | | | | |
| | 18,18 | 6,9 | 154 | 8,4 | 187 | 410 | 590 | 7000 | İRA İRF İRAF | 62 | 211 212 213 | 24 29 30 | | | | |
| | 15,59 | 8,1 | 180 | 9,8 | 218 | 410 | 590 | 7000 | | | | | | | | |
| | 13,81 | 9,1 | 203 | 11,1 | 246 | 410 | 590 | 7000 | | | | | | | | |
| | 16,67 | 7,4 | 168 | 9,0 | 204 | 410 | 590 | 4500 | | | | | | | | |
| | 15,13 | 8,2 | 185 | 9,9 | 225 | 410 | 590 | 4500 | | | | | | | | |
| | 13,48 | 9,2 | 208 | 11,2 | 252 | 410 | 590 | 4500 | | | | | | | | |
| | 12,21 | 10,2 | 229 | 12,3 | 279 | 410 | 590 | 4500 | | | | | | | | |
| | 11,10 | 11,2 | 252 | 13,6 | 306 | 410 | 590 | 4500 | | | | | | | | |
| | 10,07 | 12,3 | 278 | 14,9 | 338 | 410 | 590 | 4500 | | | | | | | | |
| | 9,358 | 13,2 | 299 | 16,1 | 363 | 410 | 590 | 4500 | | | | | | | | |
| | 8,510 | 14,6 | 329 | 17,7 | 400 | 410 | 590 | 4500 | | | | | | | | |
| | 7,673 | 16,1 | 365 | 19,6 | 443 | 410 | 590 | 4500 | | | | | | | | |
| | 7,108 | 17,4 | 394 | 21,2 | 478 | 410 | 590 | 4500 | | | | | | | | |
| | 6,480 | 19,1 | 432 | 23,2 | 525 | 410 | 590 | 4500 | | | | | | | | |
| | 5,992 | 20,7 | 467 | 25,1 | 567 | 410 | 590 | 4500 | | | | | | | | |
| | 5,723 | 21,6 | 489 | 26,3 | 594 | 410 | 590 | 4500 | | | | | | | | |
| | 5,325 | 23,3 | 526 | 28,3 | 638 | 410 | 590 | 4500 | | | | | | | | |
| | 5,060 | 24,5 | 553 | 29,7 | 672 | 410 | 590 | 4500 | | | | | | | | |
| | 4,499 | 27,5 | 622 | 33,4 | 756 | 410 | 590 | 4500 | | | | | | | | |
| | 3,998 | 31,0 | 700 | 37,6 | 850 | 410 | 590 | 4500 | | | | | | | | |
| | 3,711 | 33,4 | 755 | 40,5 | 916 | 410 | 590 | 4500 | | | | | | | | |
| | 3,287 | 37,7 | 852 | 45,8 | 1034 | 410 | 590 | 4500 | | | | | | | | |
| | 2,917 | 42,5 | 960 | 51,6 | 1166 | 410 | 590 | 4500 | | | | | | | | |
| | 2,592 | 47,8 | 1080 | 58,0 | 1312 | 410 | 590 | 4500 | | | | | | | | |
| | 2,444 | 50,7 | 1146 | 61,6 | 1391 | 410 | 590 | 4500 | | | | | | | | |
| 600 Nm | 16071 | 0,01 | 0,17 | 0,01 | 0,21 | 600 | 475 | 10100 | | | | | İRA İRF İRAF | 731 İR 53 | 241 242 243 | 54 57 60 |
| | 14258 | 0,01 | 0,20 | 0,02 | 0,24 | 600 | 475 | 10100 | | | | | | | | |
| | 12326 | 0,02 | 0,23 | 0,02 | 0,28 | 600 | 475 | 10100 | | | | | | | | |
| | 10380 | 0,02 | 0,27 | 0,02 | 0,33 | 600 | 475 | 10100 | | | | | | | | |
| | 9001 | 0,02 | 0,31 | 0,03 | 0,38 | 600 | 475 | 10100 | | | | | | | | |
| | 7782 | 0,02 | 0,36 | 0,03 | 0,44 | 600 | 475 | 10100 | | | | | | | | |
| | 6862 | 0,03 | 0,41 | 0,03 | 0,50 | 600 | 475 | 10100 | | | | | | | | |
| | 6012 | 0,03 | 0,47 | 0,04 | 0,57 | 600 | 475 | 10100 | | | | | | | | |
| | 5301 | 0,04 | 0,53 | 0,04 | 0,64 | 600 | 475 | 10100 | | | | | | | | |
| | 4299 | 0,04 | 0,65 | 0,05 | 0,79 | 600 | 475 | 10100 | | | | | | | | |
| | 3796 | 0,05 | 0,74 | 0,06 | 0,90 | 600 | 475 | 10100 | | | | | | | | |
| | 3450 | 0,06 | 0,81 | 0,07 | 0,99 | 600 | 475 | 10100 | | | | | | | | |
| | 3068 | 0,06 | 0,91 | 0,08 | 1,11 | 600 | 475 | 10100 | | | | | | | | |
| | 2747 | 0,07 | 1,02 | 0,09 | 1,24 | 600 | 475 | 10100 | | | | | | | | |
| | 2443 | 0,08 | 1,15 | 0,10 | 1,39 | 600 | 475 | 10100 | | | | | | | | |
| | 2613 | 0,07 | 1,07 | 0,09 | 1,30 | 600 | 475 | 10100 | | | | | | | | |
| | 2318 | 0,08 | 1,21 | 0,10 | 1,47 | 600 | 475 | 10100 | | | | | | | | |
| | 2004 | 0,09 | 1,40 | 0,11 | 1,70 | 600 | 475 | 10100 | | | | | | | | |
| | 1872 | 0,10 | 1,50 | 0,12 | 1,82 | 600 | 475 | 10100 | | | | | | | | |
| | 1640 | 0,12 | 1,71 | 0,14 | 2,07 | 600 | 475 | 10100 | | | | | | | | |
| | 1446 | 0,13 | 1,94 | 0,16 | 2,35 | 600 | 475 | 10100 | | | | | | | | |
| | 1286 | 0,15 | 2,18 | 0,18 | 2,64 | 600 | 475 | 10100 | | | | | | | | |
| | 1172 | 0,16 | 2,39 | 0,20 | 2,90 | 600 | 475 | 10100 | | | | | | | | |
| | 1035 | 0,18 | 2,71 | 0,22 | 3,29 | 600 | 475 | 10100 | | | | | | | | |
| | 921 | 0,21 | 3,04 | 0,25 | 3,69 | 600 | 475 | 10100 | | | | | | | | |
| | 825 | 0,23 | 3,39 | 0,28 | 4,12 | 600 | 475 | 10100 | | | | | | | | |
| | 743 | 0,26 | 3,77 | 0,31 | 4,58 | 600 | 475 | 10100 | | | | | | | | |
| | 675 | 0,28 | 4,15 | 0,34 | 5,04 | 600 | 475 | 10100 | | | | | | | | |



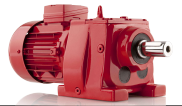
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|-----------|-------------------|----------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 417 | 0,45 | 6,71 | 0,54 | 8,15 | 600 | 475 | 10100 | İRA İRF İRAF | 721 İR 52 | 241 242 243 | 50 53 56 |
| | 365 | 0,51 | 7,67 | 0,62 | 9,32 | 600 | 475 | 10100 | | | | |
| | 322 | 0,58 | 8,70 | 0,70 | 11 | 600 | 475 | 10100 | | | | |
| | 287 | 0,65 | 9,76 | 0,79 | 12 | 600 | 475 | 10100 | | | | |
| | 256 | 0,73 | 11 | 0,89 | 13 | 600 | 475 | 10100 | | | | |
| | 226 | 0,83 | 12 | 1,0 | 15 | 600 | 475 | 10100 | | | | |
| | 201 | 0,93 | 14 | 1,1 | 17 | 600 | 475 | 10100 | | | | |
| | 180 | 1,0 | 16 | 1,3 | 19 | 600 | 475 | 10100 | | | | |
| | 162 | 1,2 | 17 | 1,4 | 21 | 600 | 475 | 10100 | | | | |
| | 145 | 1,3 | 19 | 1,6 | 23 | 600 | 475 | 10100 | | | | |
| | 622 | 0,30 | 4,50 | 0,36 | 5,46 | 600 | 475 | 10100 | | | | |
| | 538 | 0,35 | 5,21 | 0,42 | 6,32 | 600 | 475 | 10100 | | | | |
| | 465 | 0,40 | 6,02 | 0,49 | 7,31 | 600 | 475 | 10100 | | | | |
| | 435 | 0,43 | 6,43 | 0,52 | 7,81 | 600 | 475 | 10100 | | | | |
| | 384 | 0,49 | 7,30 | 0,59 | 8,86 | 600 | 475 | 10100 | | | | |
| | 338 | 0,55 | 8,27 | 0,67 | 10 | 600 | 475 | 10100 | | | | |
| | 301 | 0,62 | 9,30 | 0,75 | 11 | 600 | 475 | 10100 | | | | |
| | 240 | 0,78 | 12 | 0,95 | 14 | 600 | 475 | 10100 | | | | |
| | 188 | 0,99 | 15 | 1,2 | 18 | 600 | 475 | 10100 | | | | |
| | 169 | 1,1 | 17 | 1,3 | 20 | 600 | 475 | 10100 | | | | |
| | 152 | 1,2 | 18 | 1,5 | 22 | 600 | 475 | 10100 | | | | |
| | 152 | 1,2 | 18 | 1,5 | 22 | 600 | 1000 | 10100 | | | | |
| | 135 | 1,4 | 21 | 1,7 | 25 | 600 | 1000 | 10100 | | | | |
| | 117 | 1,6 | 24 | 1,9 | 29 | 600 | 1000 | 10100 | | | | |
| | 101 | 1,8 | 28 | 2,2 | 34 | 600 | 1000 | 10100 | | | | |
| | 88,93 | 2,1 | 31 | 2,5 | 38 | 600 | 1000 | 10100 | | | | |
| | 78,43 | 2,3 | 36 | 2,9 | 43 | 600 | 1000 | 10100 | | | | |
| | 69,75 | 2,6 | 40 | 3,2 | 49 | 600 | 1000 | 9700 | | | | |
| | 62,46 | 2,9 | 45 | 3,6 | 54 | 600 | 1000 | 9700 | | | | |
| | 55,54 | 3,3 | 50 | 4,0 | 61 | 600 | 1000 | 9700 | | | | |
| | 49,74 | 3,7 | 56 | 4,5 | 68 | 600 | 1000 | 9700 | | | | |
| | 44,79 | 4,1 | 63 | 5,0 | 76 | 600 | 1000 | 9700 | | | | |
| | 39,89 | 4,6 | 70 | 5,6 | 85 | 600 | 1000 | 9500 | | | | |
| | 35,22 | 5,2 | 79 | 6,3 | 97 | 600 | 1000 | 9500 | | | | |
| | 31,31 | 5,9 | 89 | 7,1 | 109 | 600 | 1000 | 9500 | | | | |
| | 27,97 | 6,6 | 100 | 8,0 | 122 | 600 | 1000 | 9250 | | | | |
| | 25,10 | 7,3 | 112 | 8,9 | 135 | 600 | 1000 | 9250 | | | | |
| | 22,59 | 8,1 | 124 | 9,9 | 151 | 600 | 1000 | 9250 | | | | |
| | 31,62 | 5,7 | 89 | 7,0 | 108 | 600 | 1000 | 7500 | | | | |
| | 28,06 | 6,5 | 100 | 7,8 | 121 | 600 | 1000 | 7500 | | | | |
| | 24,25 | 7,5 | 115 | 9,1 | 140 | 600 | 1000 | 7500 | | | | |
| | 21,39 | 8,5 | 131 | 10,3 | 159 | 600 | 1000 | 7500 | | | | |
| 19,02 | 9,5 | 147 | 11,6 | 179 | 600 | 1000 | 7250 | | | | | |
| 17,03 | 10,6 | 164 | 12,9 | 200 | 600 | 1000 | 7250 | | | | | |
| 15,40 | 11,8 | 182 | 14,3 | 221 | 600 | 1000 | 7250 | | | | | |
| 13,73 | 13,2 | 204 | 16,0 | 248 | 600 | 1000 | 7250 | | | | | |
| 12,13 | 15,0 | 231 | 18,2 | 280 | 600 | 1000 | 7250 | | | | | |
| 11,17 | 16,2 | 251 | 19,7 | 304 | 600 | 1000 | 7250 | | | | | |
| 9,866 | 18,4 | 284 | 22,3 | 345 | 600 | 1000 | 7000 | | | | | |
| 8,769 | 20,7 | 319 | 25,1 | 388 | 600 | 1000 | 7000 | | | | | |
| 7,834 | 23,1 | 357 | 28,1 | 434 | 600 | 1000 | 7000 | | | | | |
| 7,029 | 25,8 | 398 | 31,3 | 484 | 600 | 1000 | 7000 | | | | | |
| 6,327 | 28,7 | 443 | 34,8 | 537 | 600 | 1000 | 7000 | | | | | |
| 5,710 | 31,8 | 490 | 38,6 | 595 | 600 | 1000 | 7000 | | | | | |
| 5,164 | 35,1 | 542 | 42,6 | 658 | 600 | 1000 | 7000 | | | | | |
| 4,677 | 38,8 | 599 | 47,1 | 727 | 600 | 1000 | 7000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 721 | 229 230 231 | 37 40 43 |



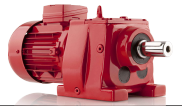
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | 600 Nm | 4,240 | 42,8 | 660 | | | | | | | |
| 3,809 | 47,6 | 735 | 57,8 | 893 | 600 | 1000 | 7000 | 230 | 40 | | | |
| 3,438 | 52,7 | 814 | 64,0 | 989 | 600 | 1000 | 7000 | 231 | 43 | | | |
| 3,109 | 58,3 | 901 | 70,8 | 1094 | 600 | 1000 | 7000 | | | | | |
| 2,816 | 64,4 | 994 | 78,2 | 1207 | 600 | 1000 | 7000 | | | | | |
| 2,553 | 71,0 | 1097 | 86,2 | 1332 | 600 | 1000 | 7000 | | | | | |
| 870 Nm | 16321 | 0,02 | 0,17 | 0,02 | 0,21 | 870 | 475 | 12100 | İRA İRF İRAF | 73 İR 53 | 259 260 261 | 53 56 59 |
| 14110 | 0,02 | 0,20 | 0,02 | 0,24 | 870 | 475 | 12100 | | | | | |
| 13744 | 0,02 | 0,20 | 0,02 | 0,25 | 870 | 475 | 12100 | | | | | |
| 11919 | 0,02 | 0,23 | 0,03 | 0,29 | 870 | 475 | 12100 | | | | | |
| 10947 | 0,03 | 0,26 | 0,03 | 0,31 | 870 | 475 | 12100 | | | | | |
| 10304 | 0,03 | 0,27 | 0,03 | 0,33 | 870 | 475 | 12100 | | | | | |
| 9654 | 0,03 | 0,29 | 0,04 | 0,35 | 870 | 475 | 12100 | | | | | |
| 8586 | 0,03 | 0,33 | 0,04 | 0,40 | 870 | 475 | 12100 | | | | | |
| 7688 | 0,04 | 0,36 | 0,04 | 0,44 | 870 | 475 | 12100 | | | | | |
| 6474 | 0,04 | 0,43 | 0,05 | 0,53 | 870 | 475 | 12100 | | | | | |
| 5674 | 0,05 | 0,49 | 0,06 | 0,60 | 870 | 475 | 12100 | | | | | |
| 5287 | 0,05 | 0,53 | 0,06 | 0,64 | 870 | 475 | 12100 | | | | | |
| 4423 | 0,06 | 0,63 | 0,08 | 0,77 | 870 | 475 | 12100 | | | | | |
| 3989 | 0,07 | 0,70 | 0,09 | 0,85 | 870 | 475 | 12100 | | | | | |
| 3522 | 0,08 | 0,80 | 0,10 | 0,97 | 870 | 475 | 12100 | | | | | |
| 3153 | 0,09 | 0,89 | 0,11 | 1,08 | 870 | 475 | 12100 | | | | | |
| 2817 | 0,10 | 0,99 | 0,12 | 1,21 | 870 | 475 | 12100 | | | | | |
| 2527 | 0,11 | 1,11 | 0,13 | 1,35 | 870 | 475 | 12100 | | | | | |
| 2106 | 0,13 | 1,33 | 0,16 | 1,61 | 870 | 475 | 12100 | | | | | |
| 2017 | 0,14 | 1,39 | 0,17 | 1,69 | 870 | 475 | 12100 | | | | | |
| 1882 | 0,15 | 1,49 | 0,18 | 1,81 | 870 | 475 | 12100 | | | | | |
| 1703 | 0,16 | 1,64 | 0,20 | 2,00 | 870 | 475 | 12100 | | | | | |
| 1520 | 0,18 | 1,84 | 0,22 | 2,24 | 870 | 475 | 12100 | | | | | |
| 1410 | 0,20 | 1,99 | 0,24 | 2,41 | 870 | 475 | 12100 | | | | | |
| 1265 | 0,22 | 2,21 | 0,26 | 2,69 | 870 | 475 | 12100 | | | | | |
| 1187 | 0,23 | 2,36 | 0,28 | 2,86 | 870 | 475 | 12100 | | | | | |
| 981 | 0,28 | 2,85 | 0,34 | 3,47 | 870 | 475 | 12100 | | | | | |
| 921 | 0,30 | 3,04 | 0,36 | 3,69 | 870 | 475 | 12100 | | | | | |
| 865 | 0,32 | 3,24 | 0,39 | 3,93 | 870 | 475 | 12100 | | | | | |
| 812 | 0,34 | 3,45 | 0,41 | 4,19 | 870 | 475 | 12100 | | | | | |
| 769 | 0,36 | 3,64 | 0,43 | 4,42 | 870 | 475 | 12100 | | | | | |
| 722 | 0,38 | 3,88 | 0,46 | 4,71 | 870 | 475 | 12100 | | | | | |
| 648 | 0,42 | 4,32 | 0,52 | 5,25 | 870 | 475 | 12100 | | | | | |
| 576 | 0,47 | 4,86 | 0,57 | 5,90 | 870 | 475 | 12100 | | | | | |
| 447 | 0,61 | 6,26 | 0,74 | 7,60 | 870 | 475 | 12100 | | | | | |
| 394 | 0,69 | 7,10 | 0,83 | 8,62 | 870 | 475 | 12100 | | | | | |
| 351 | 0,77 | 7,98 | 0,94 | 9,70 | 870 | 475 | 12100 | | | | | |
| 314 | 0,86 | 8,92 | 1,0 | 11 | 870 | 475 | 12100 | | | | | |
| 283 | 0,96 | 9,90 | 1,2 | 12 | 870 | 475 | 12100 | | | | | |
| 154 | 1,7 | 18 | 2,1 | 22 | 870 | 1200 | 12100 | | | | | |
| 134 | 2,0 | 21 | 2,4 | 25 | 870 | 1200 | 12100 | | | | | |
| 103 | 2,6 | 27 | 3,1 | 33 | 870 | 1200 | 12100 | | | | | |
| 91,36 | 2,9 | 31 | 3,5 | 37 | 870 | 1200 | 12100 | | | | | |
| 81,25 | 3,3 | 34 | 4,0 | 42 | 870 | 1200 | 12100 | | | | | |
| 72,76 | 3,7 | 38 | 4,5 | 47 | 870 | 1200 | 12100 | | | | | |
| 65,52 | 4,1 | 43 | 4,9 | 52 | 870 | 1200 | 12100 | | | | | |
| 59,42 | 4,5 | 47 | 5,5 | 57 | 870 | 1200 | 12100 | | | | | |
| 52,47 | 5,1 | 53 | 6,2 | 65 | 870 | 1200 | 12100 | | | | | |
| 46,36 | 5,8 | 60 | 7,0 | 73 | 870 | 1200 | 12100 | | | | | |
| 41,67 | 6,4 | 67 | 7,8 | 82 | 870 | 1200 | 12100 | | | | | |
| 37,38 | 7,1 | 75 | 8,7 | 91 | 870 | 1200 | 12100 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 73 | 247 | 37 |
| | | | | | | | | | | | 248 | 40 |
| | | | | | | | | | | | 249 | 43 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |



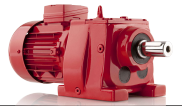
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 870 Nm | 31,16 | 8,6 | 90 | 10,4 | 109 | 870 | 1200 | 12100 | İRA İRF İRAF | 73 | 247 248 249 | 37 40 43 |
| | 27,84 | 9,6 | 101 | 11,6 | 122 | 870 | 1200 | 12100 | | | | |
| | 24,98 | 10,7 | 112 | 13,0 | 136 | 870 | 1200 | 12100 | | | | |
| | 22,48 | 11,9 | 125 | 14,4 | 151 | 870 | 1200 | 12100 | | | | |
| | 20,29 | 13,2 | 138 | 16,0 | 168 | 870 | 1200 | 12100 | | | | |
| | 18,35 | 14,5 | 153 | 17,7 | 185 | 870 | 1200 | 12100 | | | | |
| | 16,62 | 16,1 | 168 | 19,5 | 205 | 870 | 1200 | 12100 | | | | |
| | 15,07 | 17,7 | 186 | 21,5 | 226 | 870 | 1200 | 12100 | | | | |
| | 13,53 | 19,4 | 207 | 23,6 | 251 | 870 | 1200 | 9000 | İRA İRF İRAF | 72 | 247 248 249 | 35 38 41 |
| | 12,02 | 21,9 | 233 | 26,6 | 283 | 870 | 1200 | 9000 | | | | |
| | 10,74 | 24,5 | 261 | 29,7 | 317 | 870 | 1200 | 9000 | | | | |
| | 9,337 | 28,2 | 300 | 34,2 | 364 | 870 | 1200 | 9000 | | | | |
| | 8,333 | 31,6 | 336 | 38,3 | 408 | 870 | 1200 | 9000 | | | | |
| | 7,476 | 35,2 | 375 | 42,7 | 455 | 870 | 1200 | 9000 | | | | |
| | 6,730 | 39,1 | 416 | 47,4 | 505 | 870 | 1200 | 9000 | | | | |
| | 6,074 | 43,3 | 461 | 52,6 | 560 | 870 | 1200 | 9000 | | | | |
| | 5,494 | 47,9 | 510 | 58,1 | 619 | 870 | 1200 | 9000 | | | | |
| | 4,995 | 52,6 | 561 | 63,9 | 681 | 870 | 1200 | 9000 | | | | |
| | 4,497 | 58,5 | 623 | 71,0 | 756 | 870 | 1200 | 9000 | | | | |
| | 4,059 | 64,8 | 690 | 78,7 | 838 | 870 | 1200 | 9000 | | | | |
| 3,670 | 71,6 | 763 | 87,0 | 926 | 870 | 1200 | 9000 | | | | | |
| 3,324 | 79,1 | 842 | 96,0 | 1023 | 870 | 1200 | 9000 | | | | | |
| 3,014 | 87,2 | 929 | 106 | 1128 | 870 | 1200 | 9000 | | | | | |
| 2,733 | 96,2 | 1025 | 117 | 1244 | 870 | 1200 | 9000 | | | | | |
| 2,571 | 102 | 1089 | 124 | 1322 | 870 | 1200 | 9000 | | | | | |
| 1500 Nm | 18231 | 0,03 | 0,15 | 0,03 | 0,19 | 1500 | 590 | 17000 | İRA İRF İRAF | 83 İR 53 | 277 278 279 | 120 125 127 |
| | 15217 | 0,03 | 0,18 | 0,04 | 0,22 | 1500 | 590 | 17000 | | | | |
| | 13984 | 0,03 | 0,20 | 0,04 | 0,24 | 1500 | 590 | 17000 | | | | |
| | 12302 | 0,04 | 0,23 | 0,05 | 0,28 | 1500 | 590 | 17500 | | | | |
| | 10968 | 0,04 | 0,26 | 0,05 | 0,31 | 1500 | 590 | 17500 | | | | |
| | 8893 | 0,05 | 0,31 | 0,07 | 0,38 | 1500 | 590 | 17500 | | | | |
| | 7902 | 0,06 | 0,35 | 0,07 | 0,43 | 1500 | 590 | 17500 | | | | |
| | 7092 | 0,07 | 0,39 | 0,08 | 0,48 | 1500 | 590 | 17500 | | | | |
| | 6393 | 0,08 | 0,44 | 0,09 | 0,53 | 1500 | 590 | 17500 | | | | |
| | 5484 | 0,09 | 0,51 | 0,11 | 0,62 | 1500 | 590 | 17500 | | | | |
| | 4922 | 0,10 | 0,57 | 0,12 | 0,69 | 1500 | 590 | 17500 | | | | |
| | 4437 | 0,11 | 0,63 | 0,13 | 0,77 | 1500 | 590 | 17500 | | | | |
| | 4015 | 0,12 | 0,70 | 0,15 | 0,85 | 1500 | 590 | 17500 | | | | |
| | 3593 | 0,13 | 0,78 | 0,16 | 0,95 | 1500 | 590 | 17500 | | | | |
| | 3239 | 0,15 | 0,86 | 0,18 | 1,05 | 1500 | 590 | 17500 | | | | |
| | 2930 | 0,16 | 0,96 | 0,20 | 1,16 | 1500 | 590 | 17500 | | | | |
| | 2659 | 0,18 | 1,05 | 0,22 | 1,28 | 1500 | 590 | 17500 | | | | |
| | 2419 | 0,20 | 1,16 | 0,24 | 1,41 | 1500 | 590 | 17500 | | | | |
| | 2205 | 0,22 | 1,27 | 0,27 | 1,54 | 1500 | 590 | 17500 | | | | |
| | 2013 | 0,24 | 1,39 | 0,29 | 1,69 | 1500 | 590 | 17500 | | | | |
| | 1840 | 0,26 | 1,52 | 0,32 | 1,85 | 1500 | 590 | 17500 | | | | |
| | 1778 | 0,27 | 1,57 | 0,32 | 1,91 | 1500 | 590 | 17500 | | | | |
| | 1580 | 0,30 | 1,77 | 0,36 | 2,15 | 1500 | 590 | 17500 | İRA İRF İRAF | 82 İR 53 | 277 278 279 | 130 135 137 |
| | 1418 | 0,33 | 1,97 | 0,41 | 2,40 | 1500 | 590 | 17500 | | | | |
| | 1308 | 0,36 | 2,14 | 0,44 | 2,60 | 1500 | 590 | 17500 | | | | |
| | 1279 | 0,37 | 2,19 | 0,45 | 2,66 | 1500 | 590 | 17500 | | | | |
| | 1162 | 0,41 | 2,41 | 0,50 | 2,93 | 1500 | 590 | 17500 | | | | |
| | 1157 | 0,41 | 2,42 | 0,50 | 2,94 | 1500 | 590 | 17500 | | | | |
| | 1050 | 0,45 | 2,67 | 0,55 | 3,24 | 1500 | 590 | 17500 | | | | |
| | 1043 | 0,45 | 2,68 | 0,55 | 3,26 | 1500 | 590 | 17500 | | | | |
| 940 | 0,50 | 2,98 | 0,61 | 3,62 | 1500 | 590 | 17500 | | | | | |
| 850 | 0,56 | 3,29 | 0,68 | 4,00 | 1500 | 590 | 17500 | | | | | |
| 772 | 0,61 | 3,63 | 0,75 | 4,40 | 1500 | 590 | 17500 | | | | | |
| 723 | 0,66 | 3,87 | 0,80 | 4,70 | 1500 | 590 | 17500 | | | | | |



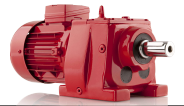
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|---|-----------|-----|-----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 1500 Nm | 700 | 0,67 | 4,00 | 0,81 | 4,86 | 1500 | 590 | 17500 | IRA IRF IRAF | 84 | 271 | 106 |
| | 635 | 0,74 | 4,41 | 0,89 | 5,36 | 1500 | 590 | 17500 | | | | |
| | 579 | 0,81 | 4,84 | 0,98 | 5,87 | 1500 | 590 | 17500 | | | | |
| | 530 | 0,88 | 5,28 | 1,1 | 6,42 | 1500 | 590 | 17500 | | | | |
| | 487 | 0,96 | 5,75 | 1,2 | 6,98 | 1500 | 590 | 17500 | | | | |
| | 428 | 1,1 | 6,54 | 1,3 | 7,94 | 1500 | 590 | 17500 | | | | |
| | 382 | 1,2 | 7,33 | 1,5 | 8,90 | 1500 | 590 | 17500 | | | | |
| | 343 | 1,4 | 8,17 | 1,7 | 9,92 | 1500 | 590 | 17500 | | | | |
| | 310 | 1,5 | 9,04 | 1,8 | 11 | 1500 | 590 | 17500 | | | | |
| | 275 | 1,7 | 10 | 2,1 | 12 | 1500 | 590 | 17500 | | | | |
| | 273 | 1,7 | 10 | 2,1 | 12 | 1500 | 590 | 17500 | | | | |
| | 243 | 1,9 | 12 | 2,3 | 14 | 1500 | 590 | 17500 | | | | |
| | 218 | 2,1 | 13 | 2,6 | 16 | 1500 | 590 | 17500 | | | | |
| | 196 | 2,4 | 14 | 2,9 | 17 | 1500 | 590 | 17500 | | | | |
| | 174 | 2,7 | 16 | 3,3 | 19 | 1500 | 590 | 17500 | | | | |
| | 168 | 2,8 | 17 | 3,4 | 20 | 1500 | 590 | 17500 | | | | |
| | 251 | 1,8 | 11 | 2,2 | 14 | 1500 | 1550 | 17500 | | | | |
| | 221 | 2,1 | 13 | 2,5 | 15 | 1500 | 1550 | 17500 | | | | |
| | 209 | 2,2 | 13 | 2,7 | 16 | 1500 | 1550 | 17500 | | | | |
| | 187 | 2,5 | 15 | 3,0 | 18 | 1500 | 1550 | 17500 | | | | |
| | 168 | 2,7 | 17 | 3,3 | 20 | 1500 | 1550 | 17500 | | | | |
| | 153 | 3,0 | 18 | 3,7 | 22 | 1500 | 1550 | 17500 | | | | |
| | 139 | 3,3 | 20 | 4,0 | 24 | 1500 | 1550 | 17500 | | | | |
| | 127 | 3,6 | 22 | 4,4 | 27 | 1500 | 1550 | 17500 | | | | |
| | 117 | 3,9 | 24 | 4,8 | 29 | 1500 | 1550 | 17500 | | | | |
| | 103 | 4,5 | 27 | 5,4 | 33 | 1500 | 1550 | 17500 | | | | |
| | 91,85 | 5,0 | 30 | 6,1 | 37 | 1500 | 1550 | 17500 | | | | |
| | 82,47 | 5,6 | 34 | 6,8 | 41 | 1500 | 1550 | 17500 | | | | |
| | 74,47 | 6,2 | 38 | 7,5 | 46 | 1500 | 1550 | 17500 | | | | |
| | 66,18 | 7,0 | 42 | 8,4 | 51 | 1500 | 1550 | 17500 | | | | |
| | 59,39 | 7,7 | 47 | 9,4 | 57 | 1500 | 1550 | 17500 | | | | |
| | 53,54 | 8,6 | 52 | 10,4 | 64 | 1500 | 1550 | 17500 | | | | |
| | 47,59 | 9,7 | 59 | 11,7 | 71 | 1500 | 1550 | 17500 | | | | |
| | 45,93 | 10,0 | 61 | 12,2 | 74 | 1500 | 1550 | 17500 | | | | |
| | 41,22 | 11,2 | 68 | 13,6 | 82 | 1500 | 1550 | 17500 | | | | |
| | 37,16 | 12,4 | 75 | 15,0 | 91 | 1500 | 1550 | 17500 | | | | |
| | 33,03 | 13,9 | 85 | 16,9 | 103 | 1500 | 1550 | 17500 | | | | |
| | 30,08 | 15,3 | 93 | 18,6 | 113 | 1500 | 1550 | 17500 | | | | |
| | 27,12 | 17,0 | 103 | 20,6 | 125 | 1500 | 1550 | 17500 | | | | |
| | 24,54 | 18,8 | 114 | 22,8 | 139 | 1500 | 1550 | 17500 | | | | |
| 22,27 | 20,7 | 126 | 25,1 | 153 | 1500 | 1550 | 17500 | | | | | |
| 20,26 | 22,7 | 138 | 27,6 | 168 | 1500 | 1550 | 17500 | | | | | |
| 18,47 | 24,9 | 152 | 30,3 | 184 | 1500 | 1550 | 17500 | | | | | |
| 16,86 | 27,3 | 166 | 33,1 | 202 | 1500 | 1550 | 17500 | | | | | |
| 15,41 | 29,9 | 182 | 36,3 | 221 | 1500 | 1550 | 17500 | | | | | |
| 14,90 | 30,4 | 188 | 37,0 | 228 | 1500 | 1550 | 13000 | | | | | |
| 13,24 | 34,2 | 212 | 41,6 | 257 | 1500 | 1550 | 13000 | | | | | |
| 11,88 | 38,2 | 236 | 46,3 | 286 | 1500 | 1550 | 13000 | | | | | |
| 10,71 | 42,3 | 261 | 51,4 | 318 | 1500 | 1550 | 13000 | | | | | |
| 9,689 | 46,8 | 289 | 56,8 | 351 | 1500 | 1550 | 13000 | | | | | |
| 8,793 | 51,6 | 318 | 62,6 | 387 | 1500 | 1550 | 13000 | | | | | |
| 8,244 | 55,0 | 340 | 66,8 | 412 | 1500 | 1550 | 13000 | | | | | |
| 7,432 | 61,0 | 377 | 74,1 | 457 | 1500 | 1550 | 13000 | | | | | |
| 6,724 | 67,4 | 416 | 81,9 | 506 | 1500 | 1550 | 13000 | | | | | |
| 6,103 | 74,3 | 459 | 90,2 | 557 | 1500 | 1550 | 13000 | | | | | |
| 5,552 | 81,6 | 504 | 99,1 | 612 | 1500 | 1550 | 13000 | | | | | |
| 5,061 | 89,6 | 553 | 109 | 672 | 1500 | 1550 | 13000 | | | | | |
| | | | | | | | | | IRA IRF IRAF | 82 | 265 | 89 |
| | | | | | | | | | | | 266 | 94 |
| | | | | | | | | | | | 267 | 96 |



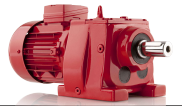
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | | kg | |
|--|-------------------------------------|--|---|--|---|---|--|---|---|-----------------|--|--|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1500 Nm | 4,620 | 98,1 | 606 | 119 | 736 | 1500 | 1550 | 13000 | IRA IRF IRAF | 82 | | | 265 266 267 | 89 94 96 |
| | 4,222 | 107 | 663 | 130 | 805 | 1500 | 1550 | 13000 | | | | | | |
| | 4,052 | 112 | 691 | 136 | 839 | 1500 | 1550 | 13000 | | | | | | |
| | 3,694 | 123 | 758 | 149 | 920 | 1500 | 1550 | 13000 | | | | | | |
| | 3,372 | 134 | 830 | 163 | 1008 | 1500 | 1550 | 13000 | | | | | | |
| | 3,082 | 147 | 909 | 179 | 1103 | 1500 | 1550 | 13000 | | | | | | |
| | 2,926 | 155 | 957 | 188 | 1162 | 1500 | 1550 | 13000 | | | | | | |
| | 2,674 | 170 | 1047 | 206 | 1272 | 1500 | 1550 | 13000 | | | | | | |
| | 2,373 | 191 | 1180 | 232 | 1433 | 1500 | 1550 | 13000 | | | | | | |
| 2800 Nm | 22852 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | IRA IRF IRAF | 93 IR 63 | | | 295 296 297 | 154 164 174 |
| | 20623 | 0,04 | 0,14 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | | |
| | 18725 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | | |
| | 18426 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | | |
| | 17911 | 0,05 | 0,16 | 0,06 | 0,19 | 2800 | 590 | 25000 | | | | | | |
| | 16707 | 0,05 | 0,17 | 0,07 | 0,20 | 2800 | 590 | 25000 | | | | | | |
| | 16629 | 0,05 | 0,17 | 0,07 | 0,20 | 2800 | 590 | 25000 | | | | | | |
| | 15663 | 0,06 | 0,18 | 0,07 | 0,22 | 2800 | 590 | 25000 | | | | | | |
| | 15160 | 0,06 | 0,18 | 0,07 | 0,22 | 2800 | 590 | 25000 | | | | | | |
| | 15098 | 0,06 | 0,19 | 0,07 | 0,23 | 2800 | 590 | 25000 | | | | | | |
| | 14679 | 0,06 | 0,19 | 0,07 | 0,23 | 2800 | 590 | 25000 | | | | | | |
| | 14410 | 0,06 | 0,19 | 0,08 | 0,24 | 2800 | 590 | 25000 | | | | | | |
| | 13583 | 0,07 | 0,21 | 0,08 | 0,25 | 2800 | 590 | 25000 | | | | | | |
| | 13137 | 0,07 | 0,21 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | | |
| | 13037 | 0,07 | 0,21 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | | |
| | 12258 | 0,07 | 0,23 | 0,09 | 0,28 | 2800 | 590 | 25000 | | | | | | |
| | 11681 | 0,08 | 0,24 | 0,09 | 0,29 | 2800 | 590 | 25000 | | | | | | |
| | 11577 | 0,08 | 0,24 | 0,09 | 0,29 | 2800 | 590 | 25000 | | | | | | |
| | 11130 | 0,08 | 0,25 | 0,10 | 0,31 | 2800 | 590 | 25000 | | | | | | |
| | 10542 | 0,09 | 0,27 | 0,10 | 0,32 | 2800 | 590 | 25000 | | | | | | |
| | 10288 | 0,09 | 0,27 | 0,11 | 0,33 | 2800 | 590 | 25000 | | | | | | |
| | 9565 | 0,09 | 0,29 | 0,11 | 0,36 | 2800 | 590 | 25000 | | | | | | |
| | 9309 | 0,10 | 0,30 | 0,12 | 0,37 | 2800 | 590 | 25000 | | | | | | |
| | 9206 | 0,10 | 0,30 | 0,12 | 0,37 | 2800 | 590 | 25000 | | | | | | |
| | 8565 | 0,10 | 0,33 | 0,13 | 0,40 | 2800 | 590 | 25000 | | | | | | |
| | 8198 | 0,11 | 0,34 | 0,13 | 0,41 | 2800 | 590 | 25000 | | | | | | |
| | 8006 | 0,11 | 0,35 | 0,14 | 0,42 | 2800 | 590 | 25000 | | | | | | |
| | 7808 | 0,12 | 0,36 | 0,14 | 0,44 | 2800 | 590 | 25000 | | | | | | |
| | 7366 | 0,12 | 0,38 | 0,15 | 0,46 | 2800 | 590 | 25000 | | | | | | |
| | 7224 | 0,12 | 0,39 | 0,15 | 0,47 | 2800 | 590 | 25000 | | | | | | |
| | 6881 | 0,13 | 0,41 | 0,16 | 0,49 | 2800 | 590 | 25000 | | | | | | |
| | 6715 | 0,13 | 0,42 | 0,16 | 0,51 | 2800 | 590 | 25000 | | | | | | |
| | 6420 | 0,14 | 0,44 | 0,17 | 0,53 | 2800 | 590 | 25000 | | | | | | |
| | 6115 | 0,15 | 0,46 | 0,18 | 0,56 | 2800 | 590 | 25000 | | | | | | |
| | 5918 | 0,15 | 0,47 | 0,18 | 0,57 | 2800 | 590 | 25000 | | | | | | |
| | 5745 | 0,16 | 0,49 | 0,19 | 0,59 | 2800 | 590 | 25000 | | | | | | |
| | 5472 | 0,16 | 0,51 | 0,20 | 0,62 | 2800 | 590 | 25000 | | | | | | |
| | 5259 | 0,17 | 0,53 | 0,21 | 0,65 | 2800 | 590 | 25000 | | | | | | |
| | 5169 | 0,17 | 0,54 | 0,21 | 0,66 | 2800 | 590 | 25000 | | | | | | |
| | 4872 | 0,18 | 0,57 | 0,22 | 0,70 | 2800 | 590 | 25000 | | | | | | |
| | 4706 | 0,19 | 0,59 | 0,23 | 0,72 | 2800 | 590 | 25000 | | | | | | |
| 4673 | 0,19 | 0,60 | 0,23 | 0,73 | 2800 | 590 | 25000 | | | | | | | |
| 4294 | 0,21 | 0,65 | 0,25 | 0,79 | 2800 | 590 | 25000 | | | | | | | |
| 4241 | 0,21 | 0,66 | 0,26 | 0,80 | 2800 | 590 | 25000 | | | | | | | |
| 4190 | 0,21 | 0,67 | 0,26 | 0,81 | 2800 | 590 | 25000 | | | | | | | |



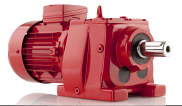
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|---|-----------------|--|----|--|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 2800 Nm | 3954 | 0,22 | 0,71 | 0,27 | 0,86 | 2800 | 590 | 25000 | IRA IRF IRAF | 93 IR 62 | | | 295 296 297 149 159 169 |
| | 3688 | 0,24 | 0,76 | 0,29 | 0,92 | 2800 | 590 | 25000 | | | | | |
| | 3582 | 0,25 | 0,78 | 0,30 | 0,95 | 2800 | 590 | 25000 | | | | | |
| | 3341 | 0,27 | 0,84 | 0,32 | 1,02 | 2800 | 590 | 25000 | | | | | |
| | 3241 | 0,27 | 0,86 | 0,33 | 1,05 | 2800 | 590 | 25000 | | | | | |
| | 2936 | 0,30 | 0,95 | 0,37 | 1,16 | 2800 | 590 | 25000 | | | | | |
| | 2878 | 0,31 | 0,97 | 0,37 | 1,18 | 2800 | 590 | 25000 | | | | | |
| | 2607 | 0,34 | 1,07 | 0,41 | 1,30 | 2800 | 590 | 25000 | | | | | |
| | 2336 | 0,38 | 1,20 | 0,46 | 1,46 | 2800 | 590 | 25000 | | | | | |
| | 2108 | 0,42 | 1,33 | 0,51 | 1,61 | 2800 | 590 | 25000 | | | | | |
| | 1914 | 0,46 | 1,46 | 0,56 | 1,78 | 2800 | 590 | 25000 | | | | | |
| | 1601 | 0,55 | 1,75 | 0,67 | 2,12 | 2800 | 590 | 25000 | | | | | |
| | 1473 | 0,60 | 1,90 | 0,73 | 2,31 | 2800 | 590 | 25000 | | | | | |
| | 1343 | 0,66 | 2,08 | 0,80 | 2,53 | 2800 | 590 | 25000 | | | | | |
| | 1183 | 0,75 | 2,37 | 0,91 | 2,87 | 2800 | 590 | 25000 | | | | | |
| | 1052 | 0,84 | 2,66 | 1,0 | 3,23 | 2800 | 590 | 25000 | | | | | |
| | 941 | 0,94 | 2,98 | 1,1 | 3,61 | 2800 | 590 | 25000 | | | | | |
| | 838 | 1,1 | 3,34 | 1,3 | 4,06 | 2800 | 590 | 25000 | | | | | |
| | 739 | 1,2 | 3,79 | 1,5 | 4,60 | 2800 | 590 | 25000 | | | | | |
| | 656 | 1,3 | 4,27 | 1,6 | 5,18 | 2800 | 590 | 25000 | | | | | |
| | 587 | 1,5 | 4,77 | 1,8 | 5,79 | 2800 | 590 | 25000 | | | | | |
| | 528 | 1,7 | 5,30 | 2,0 | 6,44 | 2800 | 590 | 25000 | | | | | |
| | 478 | 1,8 | 5,85 | 2,2 | 7,11 | 2800 | 590 | 25000 | | | | | |
| | 431 | 2,0 | 6,49 | 2,5 | 7,88 | 2800 | 590 | 25000 | | | | | |
| | 380 | 2,3 | 7,37 | 2,8 | 8,95 | 2800 | 590 | 25000 | | | | | |
| | 338 | 2,6 | 8,29 | 3,1 | 10 | 2800 | 590 | 25000 | | | | | |
| | 302 | 2,9 | 9,26 | 3,5 | 11 | 2800 | 590 | 25000 | | | | | |
| | 269 | 3,2 | 10 | 3,9 | 13 | 2800 | 590 | 25000 | | | | | |
| | 237 | 3,7 | 12 | 4,5 | 14 | 2800 | 590 | 25000 | | | | | |
| | 211 | 4,1 | 13 | 5,0 | 16 | 2800 | 590 | 25000 | | | | | |
| | 189 | 4,6 | 15 | 5,6 | 18 | 2800 | 590 | 25000 | | | | | |
| | 170 | 5,1 | 16 | 6,2 | 20 | 2800 | 590 | 25000 | | | | | |
| | 153 | 5,7 | 18 | 6,9 | 22 | 2800 | 590 | 25000 | | | | | |
| | 293 | 2,9 | 9,54 | 3,6 | 12 | 2800 | 2500 | 25000 | | | | | |
| | 274 | 3,1 | 10 | 3,8 | 12 | 2800 | 2500 | 25000 | | | | | |
| | 241 | 3,6 | 12 | 4,3 | 14 | 2800 | 2500 | 25000 | | | | | |
| | 214 | 4,0 | 13 | 4,9 | 16 | 2800 | 2500 | 25000 | | | | | |
| | 191 | 4,5 | 15 | 5,5 | 18 | 2800 | 2500 | 25000 | | | | | |
| | 173 | 5,0 | 16 | 6,0 | 20 | 2800 | 2500 | 25000 | | | | | |
| | 157 | 5,5 | 18 | 6,7 | 22 | 2800 | 2500 | 25000 | | | | | |
| | 131 | 6,5 | 21 | 8,0 | 26 | 2800 | 2500 | 25000 | | | | | |
| | 121 | 7,1 | 23 | 8,6 | 28 | 2800 | 2500 | 25000 | | | | | |
| | 110 | 7,8 | 25 | 9,5 | 31 | 2800 | 2500 | 25000 | | | | | |
| | 96,96 | 8,9 | 29 | 10,8 | 35 | 2800 | 2500 | 25000 | | | | | |
| | 86,17 | 10,0 | 32 | 12,1 | 39 | 2800 | 2500 | 25000 | | | | | |
| | 77,10 | 11,1 | 36 | 13,5 | 44 | 2800 | 2500 | 25000 | | | | | |
| | 68,66 | 12,5 | 41 | 15,2 | 50 | 2800 | 2500 | 25000 | | | | | |
| | 60,50 | 14,2 | 46 | 17,2 | 56 | 2800 | 2500 | 25000 | | | | | |
| 53,77 | 16,0 | 52 | 19,4 | 63 | 2800 | 2500 | 25000 | | | | | | |
| 48,11 | 17,9 | 58 | 21,7 | 71 | 2800 | 2500 | 25000 | | | | | | |
| 43,29 | 19,8 | 65 | 24,1 | 79 | 2800 | 2500 | 25000 | | | | | | |
| 39,14 | 21,9 | 72 | 26,7 | 87 | 2800 | 2500 | 25000 | | | | | | |
| 35,52 | 24,2 | 79 | 29,4 | 96 | 2800 | 2500 | 25000 | | | | | | |
| 32,34 | 26,6 | 87 | 32,3 | 105 | 2800 | 2500 | 25000 | | | | | | |
| 29,53 | 29,1 | 95 | 35,3 | 115 | 2800 | 2500 | 25000 | | | | | | |
| 27,01 | 31,8 | 104 | 38,6 | 126 | 2800 | 2500 | 25000 | | | | | | |
| | | | | | | | | | IRA IRF IRAF | 93 | | | 283 284 285 133 143 153 |



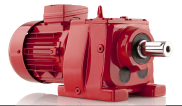
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|------------------|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 2800 Nm | 24,76 | 34,7 | 113 | 42,1 | 137 | 2800 | 2500 | 25000 | İRA İRF İRAF | 93 | 283 | 133 |
| | 20,09 | 42,8 | 139 | 51,9 | 169 | 2800 | 2500 | 25000 | | | 284 | 143 |
| | 16,85 | 51,0 | 166 | 61,9 | 202 | 2800 | 2500 | 25000 | | | 285 | 153 |
| | 14,21 | 60,5 | 197 | 73,4 | 239 | 2800 | 2500 | 25000 | İRA İRF İRAF | 92 | 283 284 285 | 163 173 183 |
| | 23,38 | 36,2 | 120 | 43,9 | 145 | 2800 | 2500 | 20000 | | | | |
| | 20,60 | 41,1 | 136 | 49,9 | 165 | 2800 | 2500 | 20000 | | | | |
| | 18,31 | 46,2 | 153 | 56,1 | 186 | 2800 | 2500 | 20000 | | | | |
| | 16,38 | 51,6 | 171 | 62,7 | 208 | 2800 | 2500 | 20000 | | | | |
| | 14,74 | 57,4 | 190 | 69,7 | 231 | 2800 | 2500 | 20000 | | | | |
| | 13,33 | 63,5 | 210 | 77,1 | 255 | 2800 | 2500 | 20000 | | | | |
| | 11,01 | 76,8 | 254 | 93,3 | 309 | 2800 | 2500 | 20000 | | | | |
| | 10,05 | 84,2 | 278 | 102 | 338 | 2800 | 2500 | 20000 | | | | |
| | 9,200 | 92,0 | 304 | 112 | 370 | 2800 | 2500 | 20000 | | | | |
| | 8,317 | 102 | 337 | 124 | 409 | 2800 | 2500 | 20000 | | | | |
| | 7,548 | 112 | 371 | 136 | 450 | 2800 | 2500 | 20000 | | | | |
| | 6,872 | 123 | 407 | 150 | 495 | 2800 | 2500 | 20000 | | | | |
| | 6,274 | 135 | 446 | 164 | 542 | 2800 | 2500 | 20000 | | | | |
| | 5,740 | 147 | 488 | 179 | 592 | 2800 | 2500 | 20000 | | | | |
| | 5,261 | 161 | 532 | 195 | 646 | 2800 | 2500 | 20000 | | | | |
| | 4,437 | 191 | 631 | 232 | 766 | 2800 | 2500 | 20000 | | | | |
| | 4,080 | 207 | 686 | 252 | 833 | 2800 | 2500 | 20000 | | | | |
| | 3,753 | 225 | 746 | 274 | 906 | 2800 | 2500 | 20000 | | | | |
| | 3,580 | 236 | 782 | 287 | 950 | 2800 | 2500 | 20000 | | | | |
| | 3,019 | 280 | 927 | 340 | 1126 | 2800 | 2500 | 20000 | | | | |
| 2,776 | 305 | 1009 | 370 | 1225 | 2800 | 2500 | 20000 | | | | | |
| 2,554 | 331 | 1096 | 402 | 1331 | 2800 | 2500 | 20000 | | | | | |
| 2,450 | 345 | 1143 | 419 | 1388 | 2800 | 2500 | 20000 | | | | | |
| 4300 Nm | 22099 | 0,06 | 0,13 | 0,08 | 0,15 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 73 | 313 314 315 | 253 256 278 |
| | 18788 | 0,07 | 0,15 | 0,09 | 0,18 | 4300 | 1200 | 34000 | | | | |
| | 16845 | 0,08 | 0,17 | 0,10 | 0,20 | 4300 | 1200 | 34000 | | | | |
| | 15213 | 0,09 | 0,18 | 0,11 | 0,22 | 4300 | 1200 | 34000 | | | | |
| | 13823 | 0,10 | 0,20 | 0,12 | 0,25 | 4300 | 1200 | 34000 | | | | |
| | 12625 | 0,11 | 0,22 | 0,13 | 0,27 | 4300 | 1200 | 34000 | | | | |
| | 11581 | 0,12 | 0,24 | 0,14 | 0,29 | 4300 | 1200 | 34000 | | | | |
| | 10325 | 0,13 | 0,27 | 0,16 | 0,33 | 4300 | 1200 | 34000 | | | | |
| | 9118 | 0,15 | 0,31 | 0,18 | 0,37 | 4300 | 1200 | 34000 | | | | |
| | 8104 | 0,17 | 0,35 | 0,21 | 0,42 | 4300 | 1200 | 34000 | | | | |
| | 7241 | 0,19 | 0,39 | 0,23 | 0,47 | 4300 | 1200 | 34000 | | | | |
| | 6496 | 0,21 | 0,43 | 0,26 | 0,52 | 4300 | 1200 | 34000 | | | | |
| | 5848 | 0,24 | 0,48 | 0,29 | 0,58 | 4300 | 1200 | 34000 | | | | |
| | 5278 | 0,26 | 0,53 | 0,32 | 0,64 | 4300 | 1200 | 34000 | | | | |
| | 4790 | 0,29 | 0,58 | 0,35 | 0,71 | 4300 | 1200 | 34000 | | | | |
| | 4230 | 0,33 | 0,66 | 0,40 | 0,80 | 4300 | 1200 | 34000 | | | | |
| | 3760 | 0,37 | 0,74 | 0,45 | 0,90 | 4300 | 1200 | 34000 | | | | |
| | 3359 | 0,41 | 0,83 | 0,50 | 1,01 | 4300 | 1200 | 34000 | | | | |
| | 3014 | 0,46 | 0,93 | 0,56 | 1,13 | 4300 | 1200 | 34000 | | | | |
| | 2713 | 0,51 | 1,03 | 0,62 | 1,25 | 4300 | 1200 | 34000 | | | | |
| | 2448 | 0,56 | 1,14 | 0,68 | 1,39 | 4300 | 1200 | 34000 | | | | |
| | 2733 | 0,50 | 1,02 | 0,60 | 1,24 | 4300 | 1200 | 34000 | | | | |
| | 2413 | 0,56 | 1,16 | 0,68 | 1,41 | 4300 | 1200 | 34000 | | | | |
| | 2145 | 0,63 | 1,31 | 0,77 | 1,59 | 4300 | 1200 | 34000 | | | | |
| 1916 | 0,71 | 1,46 | 0,86 | 1,77 | 4300 | 1200 | 34000 | | | | | |
| 1635 | 0,83 | 1,71 | 1,0 | 2,08 | 4300 | 1200 | 34000 | | | | | |
| 1460 | 0,93 | 1,92 | 1,1 | 2,33 | 4300 | 1200 | 34000 | | | | | |
| 1311 | 1,0 | 2,14 | 1,3 | 2,59 | 4300 | 1200 | 34000 | | | | | |
| 1180 | 1,2 | 2,37 | 1,4 | 2,88 | 4300 | 1200 | 34000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 102 İR 73 | 313 314 315 | 246 249 271 |



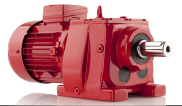
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 4300 Nm | 1173 | 1,2 | 2,39 | 1,4 | 2,90 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 72 | 313 | 251 |
| | 1046 | 1,3 | 2,68 | 1,6 | 3,25 | 4300 | 1200 | 34000 | | | 314 | 254 |
| | 923 | 1,5 | 3,03 | 1,8 | 3,68 | 4300 | 1200 | 34000 | | | 315 | 276 |
| | 821 | 1,7 | 3,41 | 2,0 | 4,14 | 4300 | 1200 | 34000 | İRA İRF İRAF | 104 | 307 308 309 | 246 249 271 |
| | 803 | 1,7 | 3,49 | 2,0 | 4,24 | 4300 | 1200 | 34000 | | | | |
| | 720 | 1,9 | 3,89 | 2,3 | 4,73 | 4300 | 1200 | 34000 | | | | |
| | 612 | 2,2 | 4,58 | 2,7 | 5,56 | 4300 | 1200 | 34000 | | | | |
| | 548 | 2,4 | 5,10 | 3,0 | 6,20 | 4300 | 1200 | 34000 | | | | |
| | 495 | 2,7 | 5,66 | 3,3 | 6,88 | 4300 | 1200 | 34000 | | | | |
| | 447 | 3,0 | 6,27 | 3,6 | 7,61 | 4300 | 1200 | 34000 | | | | |
| | 406 | 3,3 | 6,90 | 4,0 | 8,38 | 4300 | 1200 | 34000 | | | | |
| | 371 | 3,6 | 7,56 | 4,4 | 9,17 | 4300 | 1200 | 34000 | | | | |
| | 340 | 3,9 | 8,24 | 4,8 | 10 | 4300 | 1200 | 34000 | | | | |
| | 306 | 4,4 | 9,14 | 5,3 | 11 | 4300 | 1200 | 34000 | | | | |
| | 281 | 4,8 | 9,96 | 5,8 | 12 | 4300 | 1200 | 34000 | | | | |
| | 256 | 5,2 | 11 | 6,3 | 13 | 4300 | 3750 | 30000 | İRA İRF İRAF | 103 | 301 302 303 | 207 210 232 |
| | 225 | 5,9 | 12 | 7,1 | 15 | 4300 | 3750 | 30000 | | | | |
| | 208 | 6,4 | 13 | 7,7 | 16 | 4300 | 3750 | 30000 | | | | |
| | 185 | 7,1 | 15 | 8,7 | 18 | 4300 | 3750 | 30000 | | | | |
| | 165 | 8,0 | 17 | 9,7 | 21 | 4300 | 3750 | 30000 | | | | |
| | 141 | 9,4 | 20 | 11,4 | 24 | 4300 | 3750 | 30000 | | | | |
| | 126 | 10,5 | 22 | 12,7 | 27 | 4300 | 3750 | 30000 | | | | |
| | 113 | 11,7 | 25 | 14,2 | 30 | 4300 | 3750 | 30000 | | | | |
| | 104 | 12,7 | 27 | 15,5 | 33 | 4300 | 3750 | 30000 | | | | |
| | 94,54 | 14,0 | 30 | 16,9 | 36 | 4300 | 3750 | 30000 | | | | |
| | 86,72 | 15,2 | 32 | 18,5 | 39 | 4300 | 3750 | 30000 | | | | |
| | 77,32 | 17,1 | 36 | 20,7 | 44 | 4300 | 3750 | 30000 | | | | |
| | 68,28 | 19,3 | 41 | 23,5 | 50 | 4300 | 3750 | 30000 | | | | |
| | 60,69 | 21,7 | 46 | 26,4 | 56 | 4300 | 3750 | 30000 | | | | |
| | 54,22 | 24,3 | 52 | 29,5 | 63 | 4300 | 3750 | 30000 | | | | |
| | 48,65 | 27,1 | 58 | 32,9 | 70 | 4300 | 3750 | 30000 | | | | |
| | 43,79 | 30,1 | 64 | 36,6 | 78 | 4300 | 3750 | 30000 | | | | |
| | 39,53 | 33,4 | 71 | 40,5 | 86 | 4300 | 3750 | 30000 | | | | |
| | 35,87 | 36,8 | 78 | 44,7 | 95 | 4300 | 3750 | 30000 | | | | |
| | 31,68 | 41,6 | 88 | 50,6 | 107 | 4300 | 3750 | 30000 | | | | |
| | 28,16 | 46,9 | 99 | 56,9 | 121 | 4300 | 3750 | 30000 | | | | |
| | 25,16 | 52,4 | 111 | 63,7 | 135 | 4300 | 3750 | 30000 | | | | |
| | 22,57 | 58,5 | 124 | 71,0 | 151 | 4300 | 3750 | 30000 | | | | |
| | 20,32 | 64,9 | 138 | 78,8 | 167 | 4300 | 3750 | 30000 | | | | |
| | 18,37 | 71,8 | 152 | 87,2 | 185 | 4300 | 3750 | 30000 | | | | |
| | 16,58 | 79,6 | 169 | 96,6 | 205 | 4300 | 3750 | 30000 | | | | |
| | 15,02 | 87,8 | 186 | 107 | 226 | 4300 | 3750 | 30000 | | | | |
| | 17,69 | 73,4 | 158 | 89,2 | 192 | 4300 | 3750 | 25000 | | | | |
| | 15,62 | 83,2 | 179 | 101 | 218 | 4300 | 3750 | 25000 | | | | |
| | 13,89 | 93,6 | 202 | 114 | 245 | 4300 | 3750 | 25000 | | | | |
| 12,41 | 105 | 226 | 127 | 274 | 4300 | 3750 | 25000 | | | | | |
| 10,59 | 123 | 265 | 149 | 321 | 4300 | 3750 | 25000 | | | | | |
| 9,457 | 137 | 296 | 167 | 360 | 4300 | 3750 | 25000 | | | | | |
| 8,485 | 153 | 330 | 186 | 401 | 4300 | 3750 | 25000 | | | | | |
| 7,638 | 170 | 367 | 207 | 445 | 4300 | 3750 | 25000 | | | | | |
| 7,144 | 182 | 392 | 221 | 476 | 4300 | 3750 | 25000 | | | | | |
| 6,382 | 204 | 439 | 247 | 533 | 4300 | 3750 | 25000 | | | | | |
| 5,726 | 227 | 489 | 276 | 594 | 4300 | 3750 | 25000 | | | | | |
| 5,154 | 252 | 543 | 306 | 660 | 4300 | 3750 | 21000 | | | | | |
| 4,652 | 279 | 602 | 339 | 731 | 4300 | 3750 | 21000 | | | | | |
| 4,207 | 309 | 666 | 375 | 808 | 4300 | 3750 | 21000 | | | | | |
| 3,723 | 349 | 752 | 424 | 913 | 4300 | 3750 | 21000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 102 | 301 | 200 |
| | | | | | | | | | | | 302 | 203 |
| | | | | | | | | | | | 303 | 225 |



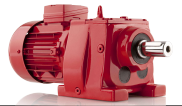
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|---|--|---|---|--|---|---|------------------|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 4300 Nm | 3,360 | 387 | 833 | 470 | 1012 | 4300 | 3750 | 21000 | İRA İRF İRAF | 102 | 301 | 200 |
| | 3,039 | 428 | 921 | 519 | 1119 | 4300 | 3750 | 21000 | | | 302 | 203 |
| | 2,752 | 472 | 1017 | 573 | 1235 | 4300 | 3750 | 19000 | | | 303 | 225 |
| | 2,495 | 521 | 1122 | 632 | 1363 | 4300 | 3750 | 19000 | | | | |
| | 2,263 | 574 | 1237 | 697 | 1502 | 4300 | 3750 | 19000 | | | | |
| 8000 Nm | 32309 | 0,08 | 0,09 | 0,10 | 0,11 | 8000 | 1200 | 52000 | İRA İRF İRAF | 123 İR 73 | 331 332 333 | 338 340 368 |
| | 28749 | 0,09 | 0,10 | 0,11 | 0,12 | 8000 | 1200 | 52000 | | | | |
| | 25807 | 0,10 | 0,11 | 0,12 | 0,13 | 8000 | 1200 | 52000 | | | | |
| | 23337 | 0,11 | 0,12 | 0,13 | 0,15 | 8000 | 1200 | 52000 | | | | |
| | 18918 | 0,14 | 0,15 | 0,16 | 0,18 | 8000 | 1200 | 52000 | | | | |
| | 17260 | 0,15 | 0,16 | 0,18 | 0,20 | 8000 | 1200 | 52000 | | | | |
| | 15494 | 0,17 | 0,18 | 0,20 | 0,22 | 8000 | 1200 | 52000 | | | | |
| | 13395 | 0,19 | 0,21 | 0,23 | 0,25 | 8000 | 1200 | 52000 | | | | |
| | 12113 | 0,21 | 0,23 | 0,26 | 0,28 | 8000 | 1200 | 52000 | | | | |
| | 11190 | 0,23 | 0,25 | 0,28 | 0,30 | 8000 | 1200 | 52000 | | | | |
| | 10209 | 0,25 | 0,27 | 0,31 | 0,33 | 8000 | 1200 | 52000 | | | | |
| | 9165 | 0,28 | 0,31 | 0,34 | 0,37 | 8000 | 1200 | 52000 | | | | |
| | 8288 | 0,31 | 0,34 | 0,38 | 0,41 | 8000 | 1200 | 52000 | | | | |
| | 7928 | 0,32 | 0,35 | 0,39 | 0,43 | 8000 | 1200 | 52000 | | | | |
| | 6426 | 0,40 | 0,44 | 0,49 | 0,53 | 8000 | 1200 | 52000 | | | | |
| | 5863 | 0,44 | 0,48 | 0,53 | 0,58 | 8000 | 1200 | 52000 | | | | |
| | 5263 | 0,49 | 0,53 | 0,59 | 0,65 | 8000 | 1200 | 52000 | | | | |
| | 4759 | 0,54 | 0,59 | 0,66 | 0,71 | 8000 | 1200 | 52000 | | | | |
| | 4059 | 0,62 | 0,69 | 0,76 | 0,84 | 8000 | 1200 | 52000 | | | | |
| | 3671 | 0,69 | 0,76 | 0,84 | 0,93 | 8000 | 1200 | 52000 | | | | |
| | 3509 | 0,72 | 0,80 | 0,88 | 0,97 | 8000 | 1200 | 52000 | | | | |
| | 3173 | 0,80 | 0,88 | 0,97 | 1,07 | 8000 | 1200 | 52000 | | | | |
| | 2829 | 0,89 | 0,99 | 1,1 | 1,20 | 8000 | 1200 | 52000 | | | | |
| | 2517 | 1,0 | 1,11 | 1,2 | 1,35 | 8000 | 1200 | 52000 | | | | |
| | 2260 | 1,1 | 1,24 | 1,4 | 1,50 | 8000 | 1200 | 52000 | | | | |
| | 2043 | 1,2 | 1,37 | 1,5 | 1,66 | 8000 | 1200 | 52000 | | | | |
| | 1657 | 1,5 | 1,69 | 1,9 | 2,05 | 8000 | 1200 | 52000 | | | | |
| | 1511 | 1,7 | 1,85 | 2,0 | 2,25 | 8000 | 1200 | 52000 | | | | |
| | 1357 | 1,9 | 2,06 | 2,3 | 2,51 | 8000 | 1200 | 52000 | | | | |
| | 1227 | 2,1 | 2,28 | 2,5 | 2,77 | 8000 | 1200 | 52000 | | | | |
| | 1025 | 2,5 | 2,73 | 3,0 | 3,32 | 8000 | 1200 | 52000 | | | | |
| | 902 | 2,8 | 3,10 | 3,4 | 3,77 | 8000 | 1200 | 52000 | | | | |
| | 883 | 2,8 | 3,17 | 3,4 | 3,85 | 8000 | 1200 | 52000 | | | | |
| 799 | 3,1 | 3,51 | 3,8 | 4,26 | 8000 | 1200 | 52000 | | | | | |
| 647 | 3,8 | 4,32 | 4,7 | 5,25 | 8000 | 1200 | 52000 | | | | | |
| 591 | 4,2 | 4,74 | 5,1 | 5,76 | 8000 | 1200 | 52000 | | | | | |
| 530 | 4,7 | 5,28 | 5,7 | 6,41 | 8000 | 1200 | 52000 | | | | | |
| 479 | 5,2 | 5,84 | 6,3 | 7,09 | 8000 | 1200 | 52000 | | | | | |
| 400 | 6,2 | 6,99 | 7,6 | 8,49 | 8000 | 1200 | 52000 | | | | | |
| 352 | 7,1 | 7,95 | 8,6 | 9,65 | 8000 | 1200 | 52000 | | | | | |
| 313 | 8,0 | 8,95 | 9,7 | 11 | 8000 | 1200 | 52000 | | | | | |
| 279 | 8,9 | 10 | 10,8 | 12 | 8000 | 1200 | 52000 | | | | | |
| 251 | 9,9 | 11 | 12,1 | 14 | 8000 | 1200 | 52000 | | | | | |
| 226 | 11,0 | 12 | 13,4 | 15 | 8000 | 1200 | 52000 | | | | | |
| 215 | 11,6 | 13 | 14,1 | 16 | 8000 | 1200 | 52000 | | | | | |
| 209 | 11,7 | 13 | 14,2 | 16 | 8000 | 3750 | 41000 | | | | | |
| 186 | 13,2 | 15 | 16,0 | 18 | 8000 | 3750 | 41000 | | | | | |
| 167 | 14,7 | 17 | 17,8 | 20 | 8000 | 3750 | 41000 | | | | | |
| 151 | 16,2 | 19 | 19,7 | 23 | 8000 | 3750 | 41000 | | | | | |
| 122 | 20,0 | 23 | 24,3 | 28 | 8000 | 3750 | 41000 | | | | | |
| 112 | 22,0 | 25 | 26,7 | 30 | 8000 | 3750 | 41000 | | | | | |
| 100 | 24,5 | 28 | 29,7 | 34 | 8000 | 3750 | 41000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 123 | 319 320 321 | 323 325 353 |



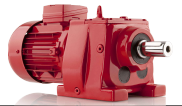
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 8000 Nm | 90,71 | 27,1 | 31 | 32,9 | 37 | 8000 | 3750 | 41000 | İRA İRF İRAF | 123 | 319 320 321 | 323 325 353 |
| | 75,77 | 32,4 | 37 | 39,3 | 45 | 8000 | 3750 | 41000 | | | | |
| | 66,67 | 36,8 | 42 | 44,7 | 51 | 8000 | 3750 | 41000 | | | | |
| | 59,16 | 41,5 | 47 | 50,4 | 57 | 8000 | 3750 | 39700 | | | | |
| | 52,85 | 46,4 | 53 | 56,4 | 64 | 8000 | 3750 | 39700 | | | | |
| | 47,47 | 51,7 | 59 | 62,8 | 72 | 8000 | 3750 | 39700 | | | | |
| | 42,84 | 57,3 | 65 | 69,6 | 79 | 8000 | 3750 | 39700 | | | | |
| | 40,70 | 60,3 | 69 | 73,2 | 84 | 8000 | 3750 | 39700 | | | | |
| | 36,11 | 68,0 | 78 | 82,5 | 94 | 8000 | 3750 | 39700 | | | | |
| | 32,26 | 76,1 | 87 | 92,4 | 105 | 8000 | 3750 | 39700 | | | | |
| | 28,98 | 84,7 | 97 | 103 | 117 | 8000 | 3750 | 39700 | | | | |
| | 26,15 | 93,9 | 107 | 114 | 130 | 8000 | 3750 | 39700 | | | | |
| | 23,69 | 104 | 118 | 126 | 144 | 8000 | 3750 | 39700 | | | | |
| | 21,52 | 114 | 130 | 138 | 158 | 8000 | 3750 | 39700 | | | | |
| | 19,60 | 125 | 143 | 152 | 173 | 8000 | 3750 | 39700 | | | | |
| | 17,89 | 137 | 156 | 167 | 190 | 8000 | 3750 | 39700 | | | | |
| | 26,28 | 92,0 | 107 | 112 | 129 | 8000 | 3750 | 45000 | | | | |
| | 23,77 | 102 | 118 | 124 | 143 | 8000 | 3750 | 45000 | | | | |
| | 19,85 | 122 | 141 | 148 | 171 | 8000 | 3750 | 45000 | | | | |
| | 17,47 | 138 | 160 | 168 | 195 | 8000 | 3750 | 45000 | | | | |
| | 15,50 | 156 | 181 | 189 | 219 | 8000 | 3750 | 45000 | | | | |
| | 13,85 | 175 | 202 | 212 | 246 | 8000 | 3750 | 45000 | | | | |
| | 12,44 | 194 | 225 | 236 | 273 | 8000 | 3750 | 45000 | | | | |
| | 11,50 | 210 | 244 | 255 | 296 | 8000 | 3750 | 45000 | | | | |
| | 10,20 | 237 | 275 | 288 | 333 | 8000 | 3750 | 45000 | | | | |
| | 9,112 | 265 | 307 | 322 | 373 | 8000 | 3750 | 45000 | | | | |
| | 8,185 | 295 | 342 | 359 | 415 | 8000 | 3750 | 45000 | | | | |
| | 7,724 | 313 | 363 | 380 | 440 | 8000 | 3750 | 45000 | | | | |
| | 6,938 | 348 | 404 | 423 | 490 | 8000 | 3750 | 45000 | | | | |
| | 6,261 | 386 | 447 | 469 | 543 | 8000 | 3750 | 45000 | | | | |
| | 5,671 | 426 | 494 | 518 | 600 | 8000 | 3750 | 45000 | | | | |
| | 5,153 | 469 | 543 | 570 | 660 | 8000 | 3750 | 45000 | | | | |
| | 4,694 | 515 | 597 | 625 | 724 | 8000 | 3750 | 45000 | | | | |
| | 4,284 | 564 | 654 | 685 | 794 | 8000 | 3750 | 45000 | | | | |
| | 3,917 | 617 | 715 | 749 | 868 | 8000 | 3750 | 45000 | | | | |
| | 3,585 | 674 | 781 | 819 | 948 | 8000 | 3750 | 45000 | | | | |
| 3,284 | 736 | 853 | 894 | 1035 | 8000 | 3750 | 45000 | | | | | |
| 13000 Nm | 537 | 7,7 | 5,21 | 9,3 | 6,33 | 13000 | 1550 | 60000 | İRA İRF İRAF | 143 İR 82 | 355 356 357 | 587 601 627 |
| | 443 | 9,3 | 6,32 | 11,3 | 7,67 | 13000 | 1550 | 60000 | | | | |
| | 398 | 10,3 | 7,04 | 12,5 | 8,54 | 13000 | 1550 | 60000 | | | | |
| | 359 | 11,5 | 7,80 | 13,9 | 9,47 | 13000 | 1550 | 60000 | | | | |
| | 331 | 12,4 | 8,46 | 15,1 | 10 | 13000 | 1550 | 60000 | | | | |
| | 277 | 14,8 | 10 | 18,0 | 12 | 13000 | 1550 | 60000 | | | | |
| | 249 | 16,5 | 11 | 20,0 | 14 | 13000 | 1550 | 60000 | | | | |
| | 225 | 18,3 | 12 | 22,2 | 15 | 13000 | 1550 | 60000 | | | | |
| | 207 | 19,9 | 14 | 24,1 | 16 | 13000 | 1550 | 60000 | | | | |
| | 187 | 22,0 | 15 | 26,7 | 18 | 13000 | 1550 | 60000 | | | | |
| | 157 | 26,2 | 18 | 31,8 | 22 | 13000 | 1550 | 60000 | | | | |
| | 24943 | 0,17 | 0,11 | 0,20 | 0,14 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | 349 350 351 | 513 527 553 |
| | 21564 | 0,19 | 0,13 | 0,24 | 0,16 | 13000 | 1200 | 60000 | | | | |
| | 19545 | 0,21 | 0,14 | 0,26 | 0,17 | 13000 | 1200 | 60000 | | | | |
| | 17730 | 0,24 | 0,16 | 0,29 | 0,19 | 13000 | 1200 | 60000 | | | | |
| | 15134 | 0,28 | 0,19 | 0,33 | 0,22 | 13000 | 1200 | 60000 | | | | |
| | 13372 | 0,31 | 0,21 | 0,38 | 0,25 | 13000 | 1200 | 60000 | | | | |
| | 12131 | 0,34 | 0,23 | 0,42 | 0,28 | 13000 | 1200 | 60000 | | | | |
| | 10788 | 0,39 | 0,26 | 0,47 | 0,32 | 13000 | 1200 | 60000 | | | | |
| | 9446 | 0,44 | 0,30 | 0,54 | 0,36 | 13000 | 1200 | 60000 | | | | |



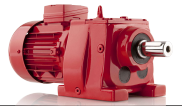
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|-------------------|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=2800rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=3400rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 13000 Nm | 8427 | 0,50 | 0,33 | 0,60 | 0,40 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | 349 350 351 | 513 527 553 |
| | 7474 | 0,56 | 0,37 | 0,68 | 0,45 | 13000 | 1200 | 60000 | | | | |
| | 6732 | 0,62 | 0,42 | 0,75 | 0,51 | 13000 | 1200 | 60000 | | | | |
| | 5907 | 0,71 | 0,47 | 0,86 | 0,58 | 13000 | 1200 | 60000 | | | | |
| | 5425 | 0,77 | 0,52 | 0,93 | 0,63 | 13000 | 1200 | 60000 | | | | |
| | 4839 | 0,86 | 0,58 | 1,0 | 0,70 | 13000 | 1200 | 60000 | | | | |
| | 4347 | 0,96 | 0,64 | 1,2 | 0,78 | 13000 | 1200 | 60000 | | | | |
| | 3814 | 1,1 | 0,73 | 1,3 | 0,89 | 13000 | 1200 | 60000 | | | | |
| | 3404 | 1,2 | 0,82 | 1,5 | 1,00 | 13000 | 1200 | 60000 | | | | |
| | 3026 | 1,4 | 0,93 | 1,7 | 1,12 | 13000 | 1200 | 60000 | | | | |
| | 2717 | 1,5 | 1,03 | 1,9 | 1,25 | 13000 | 1200 | 60000 | | | | |
| | 2184 | 1,9 | 1,28 | 2,3 | 1,56 | 13000 | 1200 | 60000 | | | | |
| | 1979 | 2,1 | 1,41 | 2,5 | 1,72 | 13000 | 1200 | 60000 | | | | |
| | 1759 | 2,3 | 1,59 | 2,8 | 1,93 | 13000 | 1200 | 60000 | | | | |
| | 1596 | 2,6 | 1,75 | 3,1 | 2,13 | 13000 | 1200 | 60000 | | | | |
| | 1365 | 3,0 | 2,05 | 3,7 | 2,49 | 13000 | 1200 | 60000 | | | | |
| | 1110 | 3,7 | 2,52 | 4,5 | 3,06 | 13000 | 1200 | 60000 | | | | |
| | 990 | 4,2 | 2,83 | 5,0 | 3,43 | 13000 | 1200 | 60000 | | | | |
| | 889 | 4,6 | 3,15 | 5,6 | 3,82 | 13000 | 1200 | 60000 | | | | |
| | 780 | 5,3 | 3,59 | 6,4 | 4,36 | 13000 | 1200 | 60000 | | | | |
| | 696 | 5,9 | 4,02 | 7,2 | 4,89 | 13000 | 1200 | 60000 | | | | |
| | 595 | 6,9 | 4,71 | 8,4 | 5,71 | 13000 | 1200 | 60000 | | | | |
| | 546 | 7,4 | 5,13 | 9,0 | 6,23 | 13000 | 1200 | 60000 | | | | |
| | 488 | 8,3 | 5,74 | 10,1 | 6,97 | 13000 | 1200 | 60000 | | | | |
| | 438 | 9,2 | 6,39 | 11,2 | 7,76 | 13000 | 1200 | 60000 | | | | |
| | 384 | 10,5 | 7,29 | 12,8 | 8,85 | 13000 | 1200 | 60000 | | | | |
| | 345 | 11,8 | 8,13 | 14,3 | 9,87 | 13000 | 1200 | 60000 | | | | |
| | 308 | 13,2 | 9,10 | 16,0 | 11 | 13000 | 1200 | 60000 | | | | |
| | 276 | 14,7 | 10 | 17,8 | 12 | 13000 | 1200 | 60000 | | | | |
| | 263 | 15,4 | 11 | 18,7 | 13 | 13000 | 1200 | 60000 | | | | |
| | 236 | 17,2 | 12 | 20,8 | 14 | 13000 | 1200 | 60000 | | | | |
| | 213 | 19,0 | 13 | 23,1 | 16 | 13000 | 1200 | 60000 | | | | |
| | 192 | 21,0 | 15 | 25,5 | 18 | 13000 | 1200 | 60000 | | | | |
| | 175 | 23,2 | 16 | 28,1 | 19 | 13000 | 1200 | 60000 | | | | |
| | 161 | 24,7 | 17 | 30,0 | 21 | 13000 | 3750 | 60000 | | | | |
| | 146 | 27,2 | 19 | 33,1 | 23 | 13000 | 3750 | 60000 | | | | |
| | 133 | 30,0 | 21 | 36,5 | 26 | 13000 | 3750 | 60000 | | | | |
| | 103 | 38,6 | 27 | 46,8 | 33 | 13000 | 3750 | 60000 | | | | |
| | 92,24 | 43,2 | 30 | 52,5 | 37 | 13000 | 3750 | 60000 | | | | |
| | 82,86 | 48,1 | 34 | 58,4 | 41 | 13000 | 3750 | 60000 | | | | |
| | 72,71 | 54,9 | 39 | 66,6 | 47 | 13000 | 3750 | 60000 | | | | |
| | 64,89 | 61,5 | 43 | 74,6 | 52 | 13000 | 3750 | 60000 | | | | |
| 58,24 | 68,5 | 48 | 83,2 | 58 | 13000 | 3750 | 60000 | | | | | |
| 55,48 | 71,9 | 50 | 87,3 | 61 | 13000 | 3750 | 60000 | | | | | |
| 49,79 | 80,1 | 56 | 97,3 | 68 | 13000 | 3750 | 60000 | | | | | |
| 44,88 | 88,9 | 62 | 108 | 76 | 13000 | 3750 | 60000 | | | | | |
| 40,61 | 98,2 | 69 | 119 | 84 | 13000 | 3750 | 60000 | | | | | |
| 36,86 | 108 | 76 | 131 | 92 | 13000 | 3750 | 60000 | | | | | |
| 33,53 | 119 | 84 | 144 | 101 | 13000 | 3750 | 60000 | | | | | |
| 27,90 | 143 | 100 | 174 | 122 | 13000 | 3750 | 60000 | | | | | |
| 23,32 | 171 | 120 | 208 | 146 | 13000 | 3750 | 60000 | | | | | |
| 20,02 | 199 | 140 | 242 | 170 | 13000 | 3750 | 60000 | | | | | |
| 20,02 | 196 | 140 | 238 | 170 | 13000 | 3750 | 60000 | | | | | |
| 18,16 | 216 | 154 | 263 | 187 | 13000 | 3750 | 60000 | | | | | |
| 16,20 | 242 | 173 | 294 | 210 | 13000 | 3750 | 60000 | | | | | |
| 14,56 | 270 | 192 | 328 | 234 | 13000 | 3750 | 60000 | | | | | |
| 12,77 | 308 | 219 | 373 | 266 | 13000 | 3750 | 60000 | | | | | |
| | | | | | | | | İRA İRF İRAF | 143 | 337 338 339 | 526 540 566 | |
| | | | | | | | | İRA İRF İRAF | 142 | 337 338 339 | 476 490 516 | |



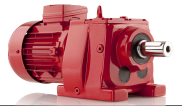
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|------------|--|-------------------|----------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 13000 Nm | 11,40 | 345 | 246 | 418 | 298 | 13000 | 3750 | 60000 | İRA İRF İRAF | 142 | | 337 338 339 | 476 490 516 |
| | 10,23 | 384 | 274 | 466 | 332 | 13000 | 3750 | 60000 | | | | | |
| | 9,222 | 426 | 304 | 517 | 369 | 13000 | 3750 | 60000 | | | | | |
| | 8,344 | 471 | 336 | 572 | 407 | 13000 | 3750 | 60000 | | | | | |
| | 7,573 | 519 | 370 | 630 | 449 | 13000 | 3750 | 60000 | | | | | |
| | 6,890 | 570 | 406 | 692 | 493 | 13000 | 3750 | 60000 | | | | | |
| | 5,733 | 685 | 488 | 832 | 593 | 13000 | 3750 | 60000 | | | | | |
| | 4,792 | 820 | 584 | 995 | 710 | 13000 | 3750 | 60000 | | | | | |
| 18000 Nm | 7067 | 0,81 | 0,40 | 0,98 | 0,48 | 18000 | 3750 | 110000 | İRA İRF İRAF | 153 İR 103 | | 379 380 381 | 1170 1220 1240 |
| | 6223 | 0,91 | 0,45 | 1,1 | 0,55 | 18000 | 3750 | 110000 | | | | | |
| | 5577 | 1,0 | 0,50 | 1,2 | 0,61 | 18000 | 3750 | 110000 | | | | | |
| | 5035 | 1,1 | 0,56 | 1,4 | 0,68 | 18000 | 3750 | 110000 | | | | | |
| | 4570 | 1,2 | 0,61 | 1,5 | 0,74 | 18000 | 3750 | 110000 | | | | | |
| | 3586 | 1,6 | 0,78 | 1,9 | 0,95 | 18000 | 3750 | 110000 | | | | | |
| | 3205 | 1,8 | 0,87 | 2,2 | 1,06 | 18000 | 3750 | 110000 | | | | | |
| | 2588 | 2,2 | 1,08 | 2,7 | 1,31 | 18000 | 3750 | 110000 | | | | | |
| | 27213 | 0,21 | 0,10 | 0,26 | 0,12 | 18000 | 2500 | 110000 | | | | | |
| | 23722 | 0,24 | 0,12 | 0,30 | 0,14 | 18000 | 2500 | 110000 | | | | | |
| | 19875 | 0,29 | 0,14 | 0,35 | 0,17 | 18000 | 2500 | 110000 | | | | | |
| | 17651 | 0,33 | 0,16 | 0,40 | 0,19 | 18000 | 2500 | 110000 | | | | | |
| | 16020 | 0,36 | 0,17 | 0,44 | 0,21 | 18000 | 2500 | 110000 | | | | | |
| | 14354 | 0,40 | 0,20 | 0,49 | 0,24 | 18000 | 2500 | 110000 | | | | | |
| | 13011 | 0,44 | 0,22 | 0,54 | 0,26 | 18000 | 2500 | 110000 | | | | | |
| | 11306 | 0,51 | 0,25 | 0,62 | 0,30 | 18000 | 2500 | 110000 | | | | | |
| | 9958 | 0,58 | 0,28 | 0,70 | 0,34 | 18000 | 2500 | 110000 | | | | | |
| | 8987 | 0,64 | 0,31 | 0,78 | 0,38 | 18000 | 2500 | 110000 | | | | | |
| | 7647 | 0,76 | 0,37 | 0,92 | 0,44 | 18000 | 2500 | 110000 | | | | | |
| | 6643 | 0,87 | 0,42 | 1,1 | 0,51 | 18000 | 2500 | 110000 | | | | | |
| | 6078 | 0,95 | 0,46 | 1,2 | 0,56 | 18000 | 2500 | 110000 | | | | | |
| | 5519 | 1,0 | 0,51 | 1,3 | 0,62 | 18000 | 2500 | 110000 | | | | | |
| | 4312 | 1,3 | 0,65 | 1,6 | 0,79 | 18000 | 2500 | 110000 | | | | | |
| | 3704 | 1,6 | 0,76 | 1,9 | 0,92 | 18000 | 2500 | 110000 | | | | | |
| | 3098 | 1,9 | 0,90 | 2,3 | 1,10 | 18000 | 2500 | 110000 | | | | | |
| | 2596 | 2,2 | 1,08 | 2,7 | 1,31 | 18000 | 2500 | 110000 | | | | | |
| | 2288 | 2,5 | 1,22 | 3,0 | 1,49 | 18000 | 2500 | 110000 | | | | | |
| | 2033 | 2,8 | 1,38 | 3,4 | 1,67 | 18000 | 2500 | 110000 | | | | | |
| | 1819 | 3,1 | 1,54 | 3,8 | 1,87 | 18000 | 2500 | 110000 | | | | | |
| | 1637 | 3,5 | 1,71 | 4,2 | 2,08 | 18000 | 2500 | 110000 | | | | | |
| | 1371 | 4,2 | 2,04 | 5,0 | 2,48 | 18000 | 2500 | 110000 | | | | | |
| | 1240 | 4,6 | 2,26 | 5,6 | 2,74 | 18000 | 2500 | 110000 | | | | | |
| | 1024 | 5,6 | 2,73 | 6,7 | 3,32 | 18000 | 2500 | 110000 | | | | | |
| | 825 | 6,9 | 3,39 | 8,4 | 4,12 | 18000 | 2500 | 110000 | | | | | |
| | 784 | 7,2 | 3,57 | 8,7 | 4,34 | 18000 | 2500 | 110000 | | | | | |
| | 695 | 8,1 | 4,03 | 9,8 | 4,89 | 18000 | 2500 | 110000 | | | | | |
| | 612 | 9,2 | 4,57 | 11,1 | 5,55 | 18000 | 2500 | 110000 | | | | | |
| | 549 | 10,2 | 5,10 | 12,4 | 6,20 | 18000 | 2500 | 110000 | | | | | |
| | 495 | 11,3 | 5,65 | 13,7 | 6,86 | 18000 | 2500 | 110000 | | | | | |
| | 432 | 13,0 | 6,48 | 15,8 | 7,87 | 18000 | 2500 | 110000 | | | | | |
| 362 | 15,5 | 7,74 | 18,8 | 9,40 | 18000 | 2500 | 110000 | | | | | | |
| 321 | 17,4 | 8,71 | 21,2 | 11 | 18000 | 2500 | 110000 | | | | | | |
| 292 | 19,2 | 9,60 | 23,3 | 12 | 18000 | 2500 | 110000 | | | | | | |
| 264 | 21,2 | 11 | 25,8 | 13 | 18000 | 2500 | 110000 | | | | | | |
| 230 | 24,4 | 12 | 29,6 | 15 | 18000 | 2500 | 110000 | | | | | | |
| 222 | 24,9 | 13 | 30,2 | 15 | 18000 | 5250 | 110000 | | | | | | |
| 202 | 27,4 | 14 | 33,3 | 17 | 18000 | 5250 | 110000 | | | | | | |
| 179 | 30,9 | 16 | 37,5 | 19 | 18000 | 5250 | 110000 | | | | | | |
| 157 | 35,1 | 18 | 42,6 | 22 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 153 | | 361 362 363 | 1006 1056 1076 |



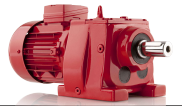
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|---|---|------------|----|---|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=2800rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=3400rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 18000 Nm | 141 | 39,1 | 20 | 47,5 | 24 | 18000 | 5250 | 110000 | IRA IRF IRAF | 153 | | | 361 362 363 1006 1056 1076 |
| | 127 | 43,3 | 22 | 52,6 | 27 | 18000 | 5250 | 110000 | | | | | |
| | 111 | 49,7 | 25 | 60,4 | 31 | 18000 | 5250 | 110000 | | | | | |
| | 93,05 | 59,4 | 30 | 72,1 | 37 | 18000 | 5250 | 110000 | | | | | |
| | 82,63 | 66,8 | 34 | 81,2 | 41 | 18000 | 5250 | 110000 | | | | | |
| | 75,00 | 73,6 | 37 | 89,4 | 45 | 18000 | 5250 | 110000 | | | | | |
| | 67,98 | 81,2 | 41 | 98,6 | 50 | 18000 | 5250 | 110000 | | | | | |
| | 59,07 | 93,5 | 47 | 114 | 58 | 18000 | 5250 | 110000 | | | | | |
| | 52,03 | 106 | 54 | 129 | 65 | 18000 | 5250 | 110000 | | | | | |
| | 44,27 | 125 | 63 | 151 | 77 | 18000 | 5250 | 110000 | | | | | |
| | 38,46 | 144 | 73 | 174 | 88 | 18000 | 5250 | 110000 | | | | | |
| | 35,19 | 157 | 80 | 191 | 97 | 18000 | 5250 | 110000 | | | | | |
| | 27,50 | 201 | 102 | 244 | 124 | 18000 | 5250 | 110000 | | | | | |
| | 23,62 | 234 | 119 | 284 | 144 | 18000 | 5250 | 110000 | | | | | |
| | 28,55 | 193 | 98 | 235 | 119 | 18000 | 5250 | 110000 | | | | | |
| | 25,93 | 213 | 108 | 259 | 131 | 18000 | 5250 | 110000 | | | | | |
| | 23,57 | 234 | 119 | 284 | 144 | 18000 | 5250 | 110000 | | | | | |
| | 21,09 | 262 | 133 | 318 | 161 | 18000 | 5250 | 110000 | | | | | |
| | 19,00 | 291 | 147 | 353 | 179 | 18000 | 5250 | 110000 | | | | | |
| | 17,22 | 321 | 163 | 389 | 197 | 18000 | 5250 | 110000 | | | | | |
| | 15,69 | 352 | 178 | 427 | 217 | 18000 | 5250 | 110000 | | | | | |
| | 14,35 | 385 | 195 | 467 | 237 | 18000 | 5250 | 110000 | | | | | |
| | 11,22 | 492 | 250 | 598 | 303 | 18000 | 5250 | 110000 | | | | | |
| | 10,70 | 516 | 262 | 627 | 318 | 18000 | 5250 | 110000 | | | | | |
| | 9,744 | 567 | 287 | 688 | 349 | 18000 | 5250 | 110000 | | | | | |
| | 8,915 | 619 | 314 | 752 | 381 | 18000 | 5250 | 110000 | | | | | |
| | 8,186 | 675 | 342 | 819 | 415 | 18000 | 5250 | 110000 | | | | | |
| | 6,965 | 793 | 402 | 963 | 488 | 18000 | 5250 | 110000 | | | | | |
| | 5,983 | 923 | 468 | 1121 | 568 | 18000 | 5250 | 110000 | | | | | |
| | | | | | | | | | | IRA IRF IRAF | 152 | | |
| | | | | | | | | | | | | | |
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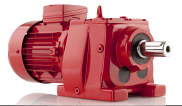
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 85 Nm | 81,37 | 0,16 | 17 | 0,19 | 21 | 85 | 390 | 2100 | İRA İRF İRAF | 43 | 175 176 177 | 10 11 12 |
| | 70,05 | 0,19 | 20 | 0,23 | 24 | 85 | 390 | 2100 | | | | |
| | 60,90 | 0,21 | 23 | 0,26 | 28 | 85 | 390 | 2100 | | | | |
| | 53,33 | 0,24 | 26 | 0,30 | 32 | 85 | 390 | 2100 | | | | |
| | 46,98 | 0,28 | 30 | 0,34 | 36 | 85 | 390 | 2100 | | | | |
| | 41,85 | 0,31 | 33 | 0,38 | 41 | 85 | 390 | 2100 | | | | |
| | 36,38 | 0,36 | 38 | 0,44 | 47 | 85 | 390 | 2100 | | | | |
| | 31,86 | 0,41 | 44 | 0,50 | 53 | 85 | 390 | 2100 | | | | |
| | 28,06 | 0,46 | 50 | 0,56 | 61 | 85 | 390 | 2100 | | | | |
| | 26,19 | 0,50 | 53 | 0,60 | 65 | 85 | 390 | 2100 | | | | |
| | 24,83 | 0,53 | 56 | 0,64 | 68 | 85 | 390 | 2000 | | | | |
| | 22,62 | 0,58 | 62 | 0,70 | 75 | 85 | 390 | 2000 | | | | |
| | 21,11 | 0,62 | 66 | 0,75 | 81 | 85 | 390 | 2000 | | | | |
| | 20,01 | 0,65 | 70 | 0,79 | 85 | 85 | 390 | 2000 | | | | |
| | 18,59 | 0,70 | 75 | 0,85 | 91 | 85 | 390 | 2000 | | | | |
| | 17,76 | 0,73 | 79 | 0,89 | 96 | 85 | 390 | 1850 | | | | |
| | 16,45 | 0,79 | 85 | 0,96 | 103 | 85 | 390 | 1850 | | | | |
| | 15,81 | 0,82 | 89 | 1,0 | 108 | 85 | 390 | 1850 | | | | |
| | 14,60 | 0,89 | 96 | 1,1 | 116 | 85 | 390 | 1850 | | | | |
| | 14,09 | 0,93 | 99 | 1,1 | 121 | 85 | 390 | 1800 | | | | |
| | 13,00 | 1,0 | 108 | 1,2 | 131 | 85 | 390 | 1800 | | | | |
| | 11,58 | 1,1 | 121 | 1,4 | 147 | 85 | 390 | 1800 | | | | |
| | 11,24 | 1,1 | 125 | 1,4 | 151 | 85 | 390 | 800 | | | | |
| | 9,845 | 1,3 | 142 | 1,6 | 173 | 85 | 390 | 800 | | | | |
| | 8,672 | 1,5 | 161 | 1,8 | 196 | 85 | 390 | 800 | | | | |
| | 7,673 | 1,7 | 182 | 2,0 | 222 | 85 | 390 | 750 | | | | |
| | 6,872 | 1,9 | 204 | 2,3 | 247 | 85 | 390 | 750 | | | | |
| | 6,080 | 2,1 | 230 | 2,6 | 280 | 85 | 390 | 750 | | | | |
| | 5,538 | 2,3 | 253 | 2,8 | 307 | 85 | 390 | 750 | | | | |
| | 5,398 | 2,4 | 259 | 2,9 | 315 | 85 | 390 | 750 | | | | |
| 4,900 | 2,6 | 286 | 3,2 | 347 | 85 | 390 | 750 | | | | | |
| 4,803 | 2,7 | 291 | 3,2 | 354 | 85 | 390 | 750 | | | | | |
| 4,350 | 3,0 | 322 | 3,6 | 391 | 85 | 390 | 750 | | | | | |
| 4,280 | 3,0 | 327 | 3,6 | 397 | 85 | 390 | 750 | | | | | |
| 3,870 | 3,3 | 362 | 4,0 | 439 | 85 | 390 | 750 | | | | | |
| 3,449 | 3,7 | 406 | 4,5 | 493 | 85 | 390 | 750 | | | | | |
| 150 Nm | 8598 | 0,00 | 0,16 | 0,00 | 0,20 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 43 | 187 188 189 | 26 28 29 |
| | 7402 | 0,00 | 0,19 | 0,00 | 0,23 | 150 | 390 | 4250 | | | | |
| | 6435 | 0,00 | 0,22 | 0,00 | 0,26 | 150 | 390 | 4250 | | | | |
| | 5419 | 0,00 | 0,26 | 0,01 | 0,31 | 150 | 390 | 4250 | | | | |
| | 4699 | 0,01 | 0,30 | 0,01 | 0,36 | 150 | 390 | 4250 | | | | |
| | 4117 | 0,01 | 0,34 | 0,01 | 0,41 | 150 | 390 | 4250 | | | | |
| | 3338 | 0,01 | 0,42 | 0,01 | 0,51 | 150 | 390 | 4250 | | | | |
| | 2948 | 0,01 | 0,47 | 0,01 | 0,58 | 150 | 390 | 4250 | | | | |
| | 2679 | 0,01 | 0,52 | 0,01 | 0,63 | 150 | 390 | 4250 | | | | |
| | 2346 | 0,01 | 0,60 | 0,01 | 0,72 | 150 | 390 | 4250 | | | | |
| | 2085 | 0,01 | 0,67 | 0,01 | 0,82 | 150 | 390 | 4250 | | | | |
| | 1863 | 0,01 | 0,75 | 0,02 | 0,91 | 150 | 390 | 4250 | | | | |
| | 1641 | 0,01 | 0,85 | 0,02 | 1,04 | 150 | 390 | 4250 | | | | |
| | 1462 | 0,02 | 0,96 | 0,02 | 1,16 | 150 | 390 | 4250 | | | | |
| | 1271 | 0,02 | 1,10 | 0,02 | 1,34 | 150 | 390 | 4250 | | | | |
| | 1204 | 0,02 | 1,16 | 0,02 | 1,41 | 150 | 390 | 4250 | | | | |
| | 1046 | 0,02 | 1,34 | 0,03 | 1,63 | 150 | 390 | 4250 | | | | |
| | 917 | 0,03 | 1,53 | 0,03 | 1,85 | 150 | 390 | 4250 | | | | |
| | 809 | 0,03 | 1,73 | 0,04 | 2,10 | 150 | 390 | 4250 | | | | |
| | | | | | | | | | | | | |



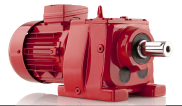
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | 150 Nm | 709 | 0,03 | 1,97 | | | | | | | |
| 630 | 0,04 | | 2,22 | 0,05 | 2,70 | 150 | 390 | 4250 | 188 | 27 | | |
| 555 | 0,04 | | 2,52 | 0,05 | 3,06 | 150 | 390 | 4250 | 189 | 28 | | |
| 496 | 0,05 | | 2,82 | 0,06 | 3,43 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 42 | 187 188 189 | 25 27 28 |
| 1188 | 0,02 | | 1,18 | 0,02 | 1,43 | 150 | 390 | 4250 | | | | |
| 1040 | 0,02 | | 1,35 | 0,03 | 1,63 | 150 | 390 | 4250 | | | | |
| 916 | 0,03 | | 1,53 | 0,03 | 1,86 | 150 | 390 | 4250 | | | | |
| 878 | 0,03 | | 1,59 | 0,03 | 1,94 | 150 | 390 | 4250 | | | | |
| 772 | 0,03 | | 1,81 | 0,04 | 2,20 | 150 | 390 | 4250 | | | | |
| 669 | 0,04 | | 2,09 | 0,04 | 2,54 | 150 | 390 | 4250 | | | | |
| 586 | 0,04 | | 2,39 | 0,05 | 2,90 | 150 | 390 | 4250 | | | | |
| 519 | 0,05 | | 2,70 | 0,06 | 3,28 | 150 | 390 | 4250 | | | | |
| 421 | 0,06 | | 3,33 | 0,07 | 4,04 | 150 | 390 | 4250 | | | | |
| 377 | 0,06 | | 3,71 | 0,08 | 4,51 | 150 | 390 | 4250 | | | | |
| 333 | 0,07 | | 4,20 | 0,09 | 5,11 | 150 | 390 | 4250 | | | | |
| 294 | 0,08 | | 4,76 | 0,10 | 5,78 | 150 | 390 | 4250 | | | | |
| 267 | 0,09 | | 5,24 | 0,11 | 6,37 | 150 | 390 | 4250 | | | | |
| 238 | 0,10 | | 5,88 | 0,12 | 7,14 | 150 | 390 | 4250 | | | | |
| 193 | 0,12 | | 7,25 | 0,15 | 8,81 | 150 | 390 | 4250 | | | | |
| 169 | 0,14 | | 8,28 | 0,17 | 10 | 150 | 390 | 4250 | | | | |
| 148 | 0,16 | | 9,46 | 0,19 | 11 | 150 | 390 | 4250 | | | | |
| 131 | 0,18 | | 11 | 0,22 | 13 | 150 | 390 | 4250 | | | | |
| 116 | 0,20 | | 12 | 0,24 | 15 | 150 | 390 | 4250 | | | | |
| 106 | 0,22 | | 13 | 0,26 | 16 | 150 | 475 | 4250 | | | | |
| 88,98 | 0,26 | | 16 | 0,31 | 19 | 150 | 475 | 4250 | | | | |
| 77,17 | 0,30 | | 18 | 0,36 | 22 | 150 | 475 | 4250 | | | | |
| 67,60 | 0,34 | | 21 | 0,41 | 25 | 150 | 475 | 4250 | | | | |
| 54,82 | 0,42 | | 26 | 0,51 | 31 | 150 | 475 | 4250 | | | | |
| 48,41 | 0,48 | | 29 | 0,58 | 35 | 150 | 475 | 4250 | | | | |
| 43,99 | 0,52 | | 32 | 0,64 | 39 | 150 | 475 | 4250 | | | | |
| 39,10 | 0,59 | | 36 | 0,71 | 43 | 150 | 475 | 4250 | | | | |
| 34,93 | 0,66 | | 40 | 0,80 | 49 | 150 | 475 | 4250 | | | | |
| 31,34 | 0,73 | | 45 | 0,89 | 54 | 150 | 475 | 4250 | | | | |
| 28,21 | 0,82 | | 50 | 0,99 | 60 | 150 | 475 | 4250 | | | | |
| 25,46 | 0,90 | | 55 | 1,1 | 67 | 150 | 475 | 4250 | | | | |
| 23,03 | 1,00 | | 61 | 1,2 | 74 | 150 | 475 | 4250 | | | | |
| 21,88 | 1,1 | | 64 | 1,3 | 78 | 150 | 475 | 4250 | | | | |
| 19,70 | 1,2 | | 71 | 1,4 | 86 | 150 | 475 | 4250 | | | | |
| 17,78 | 1,3 | | 79 | 1,6 | 96 | 150 | 475 | 4250 | | | | |
| 16,08 | 1,4 | | 87 | 1,7 | 106 | 150 | 475 | 4250 | | | | |
| 17,18 | 1,3 | | 81 | 1,6 | 99 | 150 | 475 | 3500 | | | | |
| 15,05 | 1,5 | | 93 | 1,8 | 113 | 150 | 475 | 3500 | | | | |
| 13,29 | 1,7 | 105 | 2,1 | 128 | 150 | 475 | 3500 | | | | | |
| 11,81 | 1,9 | 119 | 2,3 | 144 | 150 | 475 | 3500 | | | | | |
| 10,56 | 2,1 | 133 | 2,6 | 161 | 150 | 475 | 3500 | | | | | |
| 9,470 | 2,4 | 148 | 2,9 | 180 | 150 | 475 | 3500 | | | | | |
| 8,888 | 2,5 | 158 | 3,1 | 191 | 150 | 475 | 3500 | | | | | |
| 7,974 | 2,8 | 176 | 3,5 | 213 | 150 | 475 | 3500 | | | | | |
| 7,178 | 3,2 | 195 | 3,8 | 237 | 150 | 475 | 3500 | | | | | |
| 6,479 | 3,5 | 216 | 4,2 | 262 | 150 | 475 | 3500 | | | | | |
| 5,821 | 3,9 | 241 | 4,7 | 292 | 150 | 475 | 3500 | | | | | |
| 5,254 | 4,3 | 266 | 5,2 | 324 | 150 | 475 | 3500 | | | | | |
| 5,032 | 4,5 | 278 | 5,5 | 338 | 150 | 475 | 3500 | | | | | |
| 4,515 | 5,0 | 310 | 6,1 | 377 | 150 | 475 | 3500 | | | | | |
| 4,064 | 5,6 | 344 | 6,8 | 418 | 150 | 475 | 3500 | | | | | |
| İRA İRF İRAF | 52 | 181 | 16 | | | | | | | | | |
| | | 182 | 18 | | | | | | | | | |
| | | 183 | 19 | | | | | | | | | |
| | | 181 | 15 | | | | | | | | | |
| | | 182 | 17 | | | | | | | | | |
| | | 183 | 18 | | | | | | | | | |



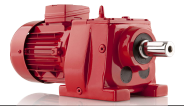
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|--|----|-----|----|-----|----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 150 Nm | 3,668 | 6,2 | 382 | 7,5 | 463 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | | | 181 | 15 | | |
| | 3,317 | 6,8 | 422 | 8,3 | 513 | 150 | 475 | 3500 | | | | | 182 | 17 | | |
| | 3,059 | 7,4 | 458 | 9,0 | 556 | 150 | 475 | 3500 | | | | | 183 | 18 | | |
| | 2,906 | 7,8 | 482 | 9,5 | 585 | 150 | 475 | 3500 | | | | | | | | |
| | 2,572 | 8,8 | 544 | 10,7 | 661 | 150 | 475 | 3500 | | | | | | | | |
| 300 Nm | 128 | 0,36 | 11 | 0,44 | 13 | 300 | 590 | 7000 | İRA İRF İRAF | 631 | | | 193 | 29 | | |
| | 119 | 0,39 | 12 | 0,47 | 14 | 300 | 590 | 7000 | | | | | | | 194 | 34 |
| | 96,27 | 0,48 | 15 | 0,58 | 18 | 300 | 590 | 7000 | | | | | | | 195 | 35 |
| | 87,81 | 0,52 | 16 | 0,64 | 19 | 300 | 590 | 7000 | | | | | | | | |
| | 83,37 | 0,55 | 17 | 0,67 | 20 | 300 | 590 | 7000 | | | | | | | | |
| | 70,96 | 0,65 | 20 | 0,79 | 24 | 300 | 590 | 7000 | | | | | | | | |
| | 61,03 | 0,75 | 23 | 0,92 | 28 | 300 | 590 | 7000 | | | | | | | | |
| | 51,65 | 0,89 | 27 | 1,1 | 33 | 300 | 590 | 7000 | | | | | | | | |
| | 46,79 | 0,98 | 30 | 1,2 | 36 | 300 | 590 | 7000 | | | | | | | | |
| | 42,55 | 1,1 | 33 | 1,3 | 40 | 300 | 590 | 7000 | | | | | | | | |
| | 35,74 | 1,3 | 39 | 1,6 | 48 | 300 | 590 | 7000 | | | | | | | | |
| | 29,85 | 1,5 | 47 | 1,9 | 57 | 300 | 590 | 7000 | | | | | | | | |
| | 25,16 | 1,8 | 56 | 2,2 | 68 | 300 | 590 | 7000 | | | | | | | | |
| | 21,50 | 2,1 | 65 | 2,6 | 79 | 300 | 590 | 7000 | | | | | | | | |
| | 20,53 | 2,2 | 68 | 2,7 | 83 | 300 | 590 | 7000 | | | | | | | | |
| | 18,18 | 2,5 | 77 | 3,1 | 94 | 300 | 590 | 7000 | | | | | | | | |
| | 15,59 | 3,0 | 90 | 3,6 | 109 | 300 | 590 | 7000 | | | | | | | | |
| | 13,81 | 3,3 | 101 | 4,0 | 123 | 300 | 590 | 7000 | | | | | | | | |
| | 16,67 | 2,7 | 84 | 3,3 | 102 | 300 | 590 | 7000 | | | | | | | | |
| | 15,13 | 3,0 | 93 | 3,6 | 112 | 300 | 590 | 7000 | | | | | | | | |
| | 13,48 | 3,4 | 104 | 4,1 | 126 | 300 | 590 | 7000 | | | | | | | | |
| | 12,21 | 3,7 | 115 | 4,5 | 139 | 300 | 590 | 7000 | | | | | | | | |
| | 11,10 | 4,1 | 126 | 5,0 | 153 | 300 | 590 | 7000 | | | | | | | | |
| | 10,07 | 4,5 | 139 | 5,5 | 169 | 300 | 590 | 7000 | | | | | | | | |
| | 9,358 | 4,8 | 150 | 5,9 | 182 | 300 | 590 | 7000 | | | | | | | | |
| | 8,510 | 5,3 | 165 | 6,5 | 200 | 300 | 590 | 7000 | | | | | | | | |
| | 7,673 | 5,9 | 182 | 7,2 | 222 | 300 | 590 | 7000 | | | | | | | | |
| | 7,108 | 6,4 | 197 | 7,7 | 239 | 300 | 590 | 7000 | | | | | | | | |
| | 6,480 | 7,0 | 216 | 8,5 | 262 | 300 | 590 | 7000 | | | | | | | | |
| | 5,992 | 7,6 | 234 | 9,2 | 284 | 300 | 590 | 7000 | | | | | | | | |
| | 5,723 | 7,9 | 245 | 9,6 | 297 | 300 | 590 | 7000 | | | | | | | | |
| | 5,325 | 8,5 | 263 | 10,3 | 319 | 300 | 590 | 7000 | | | | | | | | |
| | 5,060 | 9,0 | 277 | 10,9 | 336 | 300 | 590 | 7000 | | | | | | | | |
| 4,499 | 10,1 | 311 | 12,2 | 378 | 300 | 590 | 7000 | | | | | | | | | |
| 3,998 | 11,3 | 350 | 13,8 | 425 | 300 | 590 | 7000 | | | | | | | | | |
| 3,711 | 12,2 | 377 | 14,8 | 458 | 300 | 590 | 7000 | | | | | | | | | |
| 3,287 | 13,8 | 426 | 16,7 | 517 | 300 | 590 | 7000 | | | | | | | | | |
| 2,917 | 15,5 | 480 | 18,9 | 583 | 300 | 590 | 7000 | | | | | | | | | |
| 2,592 | 17,5 | 540 | 21,2 | 656 | 300 | 590 | 7000 | | | | | | | | | |
| 2,444 | 18,5 | 573 | 22,5 | 696 | 300 | 590 | 7000 | | | | | | | | | |
| 410 Nm | 13520 | 0,00 | 0,10 | 0,01 | 0,13 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | | | 223 | 44 | | |
| | 12617 | 0,01 | 0,11 | 0,01 | 0,13 | 410 | 475 | 7000 | | | | | | | 224 | 49 |
| | 11345 | 0,01 | 0,12 | 0,01 | 0,15 | 410 | 475 | 7000 | | | | | | | 225 | 50 |
| | 10587 | 0,01 | 0,13 | 0,01 | 0,16 | 410 | 475 | 7000 | | | | | | | | |
| | 9873 | 0,01 | 0,14 | 0,01 | 0,17 | 410 | 475 | 7000 | | | | | | | | |
| | 9214 | 0,01 | 0,15 | 0,01 | 0,18 | 410 | 475 | 7000 | | | | | | | | |
| | 7479 | 0,01 | 0,19 | 0,01 | 0,23 | 410 | 475 | 7000 | | | | | | | | |
| | 6508 | 0,01 | 0,22 | 0,01 | 0,26 | 410 | 475 | 7000 | | | | | | | | |
| | 6194 | 0,01 | 0,23 | 0,01 | 0,27 | 410 | 475 | 7000 | | | | | | | | |
| | 5936 | 0,01 | 0,24 | 0,01 | 0,29 | 410 | 475 | 7000 | | | | | | | | |
| | 5780 | 0,01 | 0,24 | 0,01 | 0,29 | 410 | 475 | 7000 | | | | | | | | |
| | 5636 | 0,01 | 0,25 | 0,01 | 0,30 | 410 | 475 | 7000 | | | | | | | | |



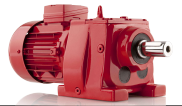
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|--|----|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 410 Nm | 4814 | 0,01 | 0,29 | 0,02 | 0,35 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | | | 223 224 225 | 44 49 50 |
| | 4661 | 0,01 | 0,30 | 0,02 | 0,36 | 410 | 475 | 7000 | | | | | | |
| | 4570 | 0,01 | 0,31 | 0,02 | 0,37 | 410 | 475 | 7000 | | | | | | |
| | 4251 | 0,02 | 0,33 | 0,02 | 0,40 | 410 | 475 | 7000 | | | | | | |
| | 4036 | 0,02 | 0,35 | 0,02 | 0,42 | 410 | 475 | 7000 | | | | | | |
| | 3890 | 0,02 | 0,36 | 0,02 | 0,44 | 410 | 475 | 7000 | | | | | | |
| | 3436 | 0,02 | 0,41 | 0,02 | 0,49 | 410 | 475 | 7000 | | | | | | |
| | 2955 | 0,02 | 0,47 | 0,03 | 0,58 | 410 | 475 | 7000 | | | | | | |
| | 2685 | 0,02 | 0,52 | 0,03 | 0,63 | 410 | 475 | 7000 | | | | | | |
| | 2500 | 0,03 | 0,56 | 0,03 | 0,68 | 410 | 475 | 7000 | | | | | | |
| | 2198 | 0,03 | 0,64 | 0,04 | 0,77 | 410 | 475 | 7000 | | | | | | |
| | 2052 | 0,03 | 0,68 | 0,04 | 0,83 | 410 | 475 | 7000 | | | | | | |
| | 1797 | 0,04 | 0,78 | 0,04 | 0,95 | 410 | 475 | 7000 | | | | | | |
| | 1701 | 0,04 | 0,82 | 0,05 | 1,00 | 410 | 475 | 7000 | | | | | | |
| | 1654 | 0,04 | 0,85 | 0,05 | 1,03 | 410 | 475 | 7000 | | | | | | |
| | 1587 | 0,04 | 0,88 | 0,05 | 1,07 | 410 | 475 | 7000 | | | | | | |
| | 1509 | 0,04 | 0,93 | 0,05 | 1,13 | 410 | 475 | 7000 | | | | | | |
| | 1432 | 0,05 | 0,98 | 0,05 | 1,19 | 410 | 475 | 7000 | | | | | | |
| | 1280 | 0,05 | 1,09 | 0,06 | 1,33 | 410 | 475 | 7000 | | | | | | |
| | 1219 | 0,05 | 1,15 | 0,06 | 1,39 | 410 | 475 | 7000 | | | | | | |
| | 1167 | 0,06 | 1,20 | 0,07 | 1,46 | 410 | 475 | 7000 | | | | | | |
| | 1108 | 0,06 | 1,26 | 0,07 | 1,53 | 410 | 475 | 7000 | | | | | | |
| | 1049 | 0,06 | 1,33 | 0,08 | 1,62 | 410 | 475 | 7000 | | | | | | |
| | 943 | 0,07 | 1,48 | 0,08 | 1,80 | 410 | 475 | 7000 | | | | | | |
| | 887 | 0,07 | 1,58 | 0,09 | 1,92 | 410 | 475 | 7000 | | | | | | |
| | 811 | 0,08 | 1,73 | 0,10 | 2,10 | 410 | 475 | 7000 | | | | | | |
| | 804 | 0,08 | 1,74 | 0,10 | 2,11 | 410 | 475 | 7000 | | | | | | |
| | 731 | 0,09 | 1,92 | 0,11 | 2,33 | 410 | 475 | 7000 | | | | | | |
| | 686 | 0,09 | 2,04 | 0,11 | 2,48 | 410 | 475 | 7000 | | | | | | |
| | 622 | 0,10 | 2,25 | 0,13 | 2,73 | 410 | 475 | 7000 | | | | | | |
| | 614 | 0,11 | 2,28 | 0,13 | 2,77 | 410 | 475 | 7000 | | | | | | |
| | 566 | 0,11 | 2,47 | 0,14 | 3,00 | 410 | 475 | 7000 | | | | | | |
| | 538 | 0,12 | 2,60 | 0,15 | 3,16 | 410 | 475 | 7000 | | | | | | |
| | 475 | 0,14 | 2,95 | 0,17 | 3,58 | 410 | 475 | 7000 | | | | | | |
| | 449 | 0,14 | 3,12 | 0,18 | 3,79 | 410 | 475 | 7000 | | | | | | |
| | 424 | 0,15 | 3,30 | 0,18 | 4,01 | 410 | 475 | 7000 | | | | | | |
| | 396 | 0,16 | 3,54 | 0,20 | 4,29 | 410 | 475 | 7000 | | | | | | |
| | 319 | 0,20 | 4,39 | 0,24 | 5,33 | 410 | 475 | 7000 | | | | | | |
| | 291 | 0,22 | 4,81 | 0,27 | 5,84 | 410 | 475 | 7000 | | | | | | |
| | 276 | 0,23 | 5,06 | 0,28 | 6,15 | 410 | 475 | 7000 | | | | | | |
| | 235 | 0,27 | 5,95 | 0,33 | 7,22 | 410 | 475 | 7000 | | | | | | |
| | 214 | 0,30 | 6,55 | 0,36 | 7,95 | 410 | 475 | 7000 | | | | | | |
| | 182 | 0,35 | 7,69 | 0,43 | 9,34 | 410 | 475 | 7000 | | | | | | |
| | 157 | 0,41 | 8,94 | 0,50 | 11 | 410 | 475 | 7000 | | | | | | |
| | 132 | 0,48 | 11 | 0,59 | 13 | 410 | 475 | 7000 | | | | | | |
| | 128 | 0,49 | 11 | 0,60 | 13 | 410 | 590 | 7000 | | | | | | |
| | 119 | 0,53 | 12 | 0,64 | 14 | 410 | 590 | 7000 | | | | | | |
| 96,27 | 0,65 | 15 | 0,79 | 18 | 410 | 590 | 7000 | | | | | | | |
| 87,81 | 0,72 | 16 | 0,87 | 19 | 410 | 590 | 7000 | | | | | | | |
| 83,37 | 0,75 | 17 | 0,92 | 20 | 410 | 590 | 7000 | | | | | | | |
| 70,96 | 0,89 | 20 | 1,1 | 24 | 410 | 590 | 7000 | | | | | | | |
| 61,03 | 1,0 | 23 | 1,3 | 28 | 410 | 590 | 7000 | | | | | | | |
| 51,65 | 1,2 | 27 | 1,5 | 33 | 410 | 590 | 7000 | | | | | | | |
| 46,79 | 1,3 | 30 | 1,6 | 36 | 410 | 590 | 7000 | | | | | | | |
| 42,55 | 1,5 | 33 | 1,8 | 40 | 410 | 590 | 7000 | | | | | | | |
| 35,74 | 1,8 | 39 | 2,1 | 48 | 410 | 590 | 7000 | | | | | | | |
| 29,85 | 2,1 | 47 | 2,6 | 57 | 410 | 590 | 7000 | | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 63 | | | 211 212 213 | 29 34 35 |



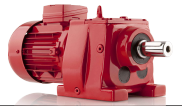
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | | | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|----------------|-------|--------------------|------------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 410 Nm | 25,16 | 2,5 | 56 | 3,0 | 68 | 410 | 590 | 7000 | İRA İRF İRAF | 63 | 211 | 29 | | | | | |
| | 21,50 | 2,9 | 65 | 3,6 | 79 | 410 | 590 | 7000 | | | 212 | 34 | | | | | |
| | 20,53 | 3,1 | 68 | 3,7 | 83 | 410 | 590 | 7000 | | | 213 | 35 | | | | | |
| | 18,18 | 3,5 | 77 | 4,2 | 94 | 410 | 590 | 7000 | İRA İRF İRAF | 62 | 211 212 213 | 24 29 30 | | | | | |
| | 15,59 | 4,0 | 90 | 4,9 | 109 | 410 | 590 | 7000 | | | | | | | | | |
| | 13,81 | 4,6 | 101 | 5,5 | 123 | 410 | 590 | 7000 | | | | | | | | | |
| | 16,67 | 3,7 | 84 | 4,5 | 102 | 410 | 590 | 4500 | | | | | | | | | |
| | 15,13 | 4,1 | 93 | 5,0 | 112 | 410 | 590 | 4500 | | | | | | | | | |
| | 13,48 | 4,6 | 104 | 5,6 | 126 | 410 | 590 | 4500 | | | | | | | | | |
| | 12,21 | 5,1 | 115 | 6,2 | 139 | 410 | 590 | 4500 | | | | | | | | | |
| | 11,10 | 5,6 | 126 | 6,8 | 153 | 410 | 590 | 4500 | | | | | | | | | |
| | 10,07 | 6,1 | 139 | 7,5 | 169 | 410 | 590 | 4500 | | | | | | | | | |
| | 9,358 | 6,6 | 150 | 8,0 | 182 | 410 | 590 | 4500 | | | | | | | | | |
| | 8,510 | 7,3 | 165 | 8,8 | 200 | 410 | 590 | 4500 | | | | | | | | | |
| | 7,673 | 8,1 | 182 | 9,8 | 222 | 410 | 590 | 4500 | | | | | | | | | |
| | 7,108 | 8,7 | 197 | 10,6 | 239 | 410 | 590 | 4500 | | | | | | | | | |
| | 6,480 | 9,6 | 216 | 11,6 | 262 | 410 | 590 | 4500 | | | | | | | | | |
| | 5,992 | 10,3 | 234 | 12,6 | 284 | 410 | 590 | 4500 | | | | | | | | | |
| | 5,723 | 10,8 | 245 | 13,1 | 297 | 410 | 590 | 4500 | | | | | | | | | |
| | 5,325 | 11,6 | 263 | 14,1 | 319 | 410 | 590 | 4500 | | | | | | | | | |
| | 5,060 | 12,2 | 277 | 14,9 | 336 | 410 | 590 | 4500 | | | | | | | | | |
| | 4,499 | 13,8 | 311 | 16,7 | 378 | 410 | 590 | 4500 | | | | | | | | | |
| | 3,998 | 15,5 | 350 | 18,8 | 425 | 410 | 590 | 4500 | | | | | | | | | |
| | 3,711 | 16,7 | 377 | 20,3 | 458 | 410 | 590 | 4500 | | | | | | | | | |
| | 3,287 | 18,8 | 426 | 22,9 | 517 | 410 | 590 | 4500 | | | | | | | | | |
| | 2,917 | 21,2 | 480 | 25,8 | 583 | 410 | 590 | 4500 | | | | | | | | | |
| | 2,592 | 23,9 | 540 | 29,0 | 656 | 410 | 590 | 4500 | | | | | | | | | |
| | 2,444 | 25,3 | 573 | 30,8 | 696 | 410 | 590 | 4500 | | | | | | | | | |
| | 600 Nm | 16071 | 0,01 | 0,09 | 0,01 | 0,11 | 600 | 475 | | | | | 10100 | İRA İRF İRAF | 731 İR 53 | 241 242 243 | 54 57 60 |
| | | 14258 | 0,01 | 0,10 | 0,01 | 0,12 | 600 | 475 | | | | | 10100 | | | | |
| 12326 | | 0,01 | 0,11 | 0,01 | 0,14 | 600 | 475 | 10100 | | | | | | | | | |
| 10380 | | 0,01 | 0,13 | 0,01 | 0,16 | 600 | 475 | 10100 | | | | | | | | | |
| 9001 | | 0,01 | 0,16 | 0,01 | 0,19 | 600 | 475 | 10100 | | | | | | | | | |
| 7782 | | 0,01 | 0,18 | 0,02 | 0,22 | 600 | 475 | 10100 | | | | | | | | | |
| 6862 | | 0,01 | 0,20 | 0,02 | 0,25 | 600 | 475 | 10100 | | | | | | | | | |
| 6012 | | 0,02 | 0,23 | 0,02 | 0,28 | 600 | 475 | 10100 | | | | | | | | | |
| 5301 | | 0,02 | 0,26 | 0,02 | 0,32 | 600 | 475 | 10100 | | | | | | | | | |
| 4299 | | 0,02 | 0,33 | 0,03 | 0,40 | 600 | 475 | 10100 | | | | | | | | | |
| 3796 | | 0,03 | 0,37 | 0,03 | 0,45 | 600 | 475 | 10100 | | | | | | | | | |
| 3450 | | 0,03 | 0,41 | 0,03 | 0,49 | 600 | 475 | 10100 | | | | | | | | | |
| 3068 | | 0,03 | 0,46 | 0,04 | 0,55 | 600 | 475 | 10100 | | | | | | | | | |
| 2747 | | 0,04 | 0,51 | 0,04 | 0,62 | 600 | 475 | 10100 | | | | | | | | | |
| 2443 | | 0,04 | 0,57 | 0,05 | 0,70 | 600 | 475 | 10100 | | | | | | | | | |
| 2613 | | 0,04 | 0,54 | 0,04 | 0,65 | 600 | 475 | 10100 | | | | | | | | | |
| 2318 | | 0,04 | 0,60 | 0,05 | 0,73 | 600 | 475 | 10100 | | | | | | | | | |
| 2004 | | 0,05 | 0,70 | 0,06 | 0,85 | 600 | 475 | 10100 | | | | | | | | | |
| 1872 | | 0,05 | 0,75 | 0,06 | 0,91 | 600 | 475 | 10100 | | | | | | | | | |
| 1640 | | 0,06 | 0,85 | 0,07 | 1,04 | 600 | 475 | 10100 | | | | | | | | | |
| 1446 | | 0,07 | 0,97 | 0,08 | 1,18 | 600 | 475 | 10100 | | | | | | | | | |
| 1286 | | 0,07 | 1,09 | 0,09 | 1,32 | 600 | 475 | 10100 | | | | | | | | | |
| 1172 | | 0,08 | 1,19 | 0,10 | 1,45 | 600 | 475 | 10100 | | | | | | | | | |
| 1035 | | 0,09 | 1,35 | 0,11 | 1,64 | 600 | 475 | 10100 | | | | | | | | | |
| 921 | | 0,10 | 1,52 | 0,13 | 1,85 | 600 | 475 | 10100 | | | | | | | | | |
| 825 | | 0,11 | 1,70 | 0,14 | 2,06 | 600 | 475 | 10100 | | | | | | | | | |
| 743 | | 0,13 | 1,88 | 0,16 | 2,29 | 600 | 475 | 10100 | | | | | | | | | |
| 675 | | 0,14 | 2,07 | 0,17 | 2,52 | 600 | 475 | 10100 | | | | | | | | | |



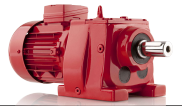
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 417 | 0,22 | 3,36 | 0,27 | 4,08 | 600 | 475 | 10100 | İRA İRF İRAF | 721 İR 52 | 241 242 243 | 50 53 56 |
| | 365 | 0,26 | 3,84 | 0,31 | 4,66 | 600 | 475 | 10100 | | | | |
| | 322 | 0,29 | 4,35 | 0,35 | 5,28 | 600 | 475 | 10100 | | | | |
| | 287 | 0,33 | 4,88 | 0,40 | 5,92 | 600 | 475 | 10100 | | | | |
| | 256 | 0,36 | 5,47 | 0,44 | 6,64 | 600 | 475 | 10100 | | | | |
| | 226 | 0,41 | 6,19 | 0,50 | 7,52 | 600 | 475 | 10100 | | | | |
| | 201 | 0,46 | 6,97 | 0,56 | 8,46 | 600 | 475 | 10100 | | | | |
| | 180 | 0,52 | 7,78 | 0,63 | 9,44 | 600 | 475 | 10100 | | | | |
| | 162 | 0,58 | 8,64 | 0,70 | 10 | 600 | 475 | 10100 | | | | |
| | 145 | 0,64 | 9,66 | 0,78 | 12 | 600 | 475 | 10100 | | | | |
| | 622 | 0,15 | 2,25 | 0,18 | 2,73 | 600 | 475 | 10100 | | | | |
| | 538 | 0,17 | 2,60 | 0,21 | 3,16 | 600 | 475 | 10100 | | | | |
| | 465 | 0,20 | 3,01 | 0,24 | 3,66 | 600 | 475 | 10100 | | | | |
| | 435 | 0,21 | 3,22 | 0,26 | 3,91 | 600 | 475 | 10100 | | | | |
| | 384 | 0,24 | 3,65 | 0,30 | 4,43 | 600 | 475 | 10100 | | | | |
| | 338 | 0,28 | 4,14 | 0,34 | 5,02 | 600 | 475 | 10100 | | | | |
| | 301 | 0,31 | 4,65 | 0,38 | 5,65 | 600 | 475 | 10100 | | | | |
| | 240 | 0,39 | 5,84 | 0,47 | 7,09 | 600 | 475 | 10100 | | | | |
| | 188 | 0,50 | 7,43 | 0,60 | 9,03 | 600 | 475 | 10100 | | | | |
| | 169 | 0,55 | 8,30 | 0,67 | 10 | 600 | 475 | 10100 | | | | |
| | 152 | 0,62 | 9,22 | 0,75 | 11 | 600 | 475 | 10100 | | | | |
| | 152 | 0,61 | 9,21 | 0,73 | 11 | 600 | 1000 | 10100 | | | | |
| | 135 | 0,68 | 10 | 0,83 | 13 | 600 | 1000 | 10100 | | | | |
| | 117 | 0,79 | 12 | 0,96 | 15 | 600 | 1000 | 10100 | | | | |
| | 101 | 0,91 | 14 | 1,1 | 17 | 600 | 1000 | 10100 | | | | |
| | 88,93 | 1,0 | 16 | 1,3 | 19 | 600 | 1000 | 10100 | | | | |
| | 78,43 | 1,2 | 18 | 1,4 | 22 | 600 | 1000 | 10100 | | | | |
| | 69,75 | 1,3 | 20 | 1,6 | 24 | 600 | 1000 | 9700 | | | | |
| | 62,46 | 1,5 | 22 | 1,8 | 27 | 600 | 1000 | 9700 | | | | |
| | 55,54 | 1,7 | 25 | 2,0 | 31 | 600 | 1000 | 9700 | | | | |
| | 49,74 | 1,9 | 28 | 2,2 | 34 | 600 | 1000 | 9700 | | | | |
| | 44,79 | 2,1 | 31 | 2,5 | 38 | 600 | 1000 | 9700 | | | | |
| | 39,89 | 2,3 | 35 | 2,8 | 43 | 600 | 1000 | 9500 | | | | |
| | 35,22 | 2,6 | 40 | 3,2 | 48 | 600 | 1000 | 9500 | | | | |
| | 31,31 | 2,9 | 45 | 3,6 | 54 | 600 | 1000 | 9500 | | | | |
| | 27,97 | 3,3 | 50 | 4,0 | 61 | 600 | 1000 | 9250 | | | | |
| | 25,10 | 3,7 | 56 | 4,5 | 68 | 600 | 1000 | 9250 | | | | |
| | 22,59 | 4,1 | 62 | 4,9 | 75 | 600 | 1000 | 9250 | | | | |
| | 31,62 | 2,9 | 44 | 3,5 | 54 | 600 | 1000 | 7500 | | | | |
| | 28,06 | 3,2 | 50 | 3,9 | 61 | 600 | 1000 | 7500 | | | | |
| | 24,25 | 3,7 | 58 | 4,5 | 70 | 600 | 1000 | 7500 | | | | |
| | 21,39 | 4,2 | 65 | 5,1 | 79 | 600 | 1000 | 7500 | | | | |
| | 19,02 | 4,8 | 74 | 5,8 | 89 | 600 | 1000 | 7250 | | | | |
| | 17,03 | 5,3 | 82 | 6,5 | 100 | 600 | 1000 | 7250 | | | | |
| | 15,40 | 5,9 | 91 | 7,1 | 110 | 600 | 1000 | 7250 | | | | |
| 13,73 | 6,6 | 102 | 8,0 | 124 | 600 | 1000 | 7250 | | | | | |
| 12,13 | 7,5 | 115 | 9,1 | 140 | 600 | 1000 | 7250 | | | | | |
| 11,17 | 8,1 | 125 | 9,9 | 152 | 600 | 1000 | 7250 | | | | | |
| 9,866 | 9,2 | 142 | 11,2 | 172 | 600 | 1000 | 7000 | | | | | |
| 8,769 | 10,3 | 160 | 12,6 | 194 | 600 | 1000 | 7000 | | | | | |
| 7,834 | 11,6 | 179 | 14,1 | 217 | 600 | 1000 | 7000 | | | | | |
| 7,029 | 12,9 | 199 | 15,7 | 242 | 600 | 1000 | 7000 | | | | | |
| 6,327 | 14,3 | 221 | 17,4 | 269 | 600 | 1000 | 7000 | | | | | |
| 5,710 | 15,9 | 245 | 19,3 | 298 | 600 | 1000 | 7000 | | | | | |
| 5,164 | 17,6 | 271 | 21,3 | 329 | 600 | 1000 | 7000 | | | | | |
| 4,677 | 19,4 | 299 | 23,5 | 363 | 600 | 1000 | 7000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 721 | 229 230 231 | 37 40 43 |



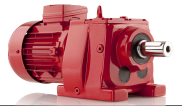
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 4,240 | 21,4 | 330 | 26,0 | 401 | 600 | 1000 | 7000 | iRA iRF iRAF | 721 | 229 | 37 |
| | 3,809 | 23,8 | 368 | 28,9 | 446 | 600 | 1000 | 7000 | | | 230 | 40 |
| | 3,438 | 26,4 | 407 | 32,0 | 494 | 600 | 1000 | 7000 | | | 231 | 43 |
| | 3,109 | 29,2 | 450 | 35,4 | 547 | 600 | 1000 | 7000 | | | | |
| | 2,816 | 32,2 | 497 | 39,1 | 604 | 600 | 1000 | 7000 | | | | |
| | 2,553 | 35,5 | 548 | 43,1 | 666 | 600 | 1000 | 7000 | | | | |
| 870 Nm | 16321 | 0,01 | 0,09 | 0,01 | 0,10 | 870 | 475 | 12100 | iRA iRF iRAF | 73 iR 53 | 259 260 261 | 53 56 59 |
| | 14110 | 0,01 | 0,10 | 0,01 | 0,12 | 870 | 475 | 12100 | | | | |
| | 13744 | 0,01 | 0,10 | 0,01 | 0,12 | 870 | 475 | 12100 | | | | |
| | 11919 | 0,01 | 0,12 | 0,01 | 0,14 | 870 | 475 | 12100 | | | | |
| | 10947 | 0,01 | 0,13 | 0,02 | 0,16 | 870 | 475 | 12100 | | | | |
| | 10304 | 0,01 | 0,14 | 0,02 | 0,16 | 870 | 475 | 12100 | | | | |
| | 9654 | 0,01 | 0,15 | 0,02 | 0,18 | 870 | 475 | 12100 | | | | |
| | 8586 | 0,02 | 0,16 | 0,02 | 0,20 | 870 | 475 | 12100 | | | | |
| | 7688 | 0,02 | 0,18 | 0,02 | 0,22 | 870 | 475 | 12100 | | | | |
| | 6474 | 0,02 | 0,22 | 0,03 | 0,26 | 870 | 475 | 12100 | | | | |
| | 5674 | 0,02 | 0,25 | 0,03 | 0,30 | 870 | 475 | 12100 | | | | |
| | 5287 | 0,03 | 0,26 | 0,03 | 0,32 | 870 | 475 | 12100 | | | | |
| | 4423 | 0,03 | 0,32 | 0,04 | 0,38 | 870 | 475 | 12100 | | | | |
| | 3989 | 0,04 | 0,35 | 0,04 | 0,43 | 870 | 475 | 12100 | | | | |
| | 3522 | 0,04 | 0,40 | 0,05 | 0,48 | 870 | 475 | 12100 | | | | |
| | 3153 | 0,04 | 0,44 | 0,05 | 0,54 | 870 | 475 | 12100 | | | | |
| | 2817 | 0,05 | 0,50 | 0,06 | 0,60 | 870 | 475 | 12100 | | | | |
| | 2527 | 0,06 | 0,55 | 0,07 | 0,67 | 870 | 475 | 12100 | | | | |
| | 2106 | 0,07 | 0,66 | 0,08 | 0,81 | 870 | 475 | 12100 | | | | |
| | 2017 | 0,07 | 0,69 | 0,08 | 0,84 | 870 | 475 | 12100 | | | | |
| | 1882 | 0,07 | 0,74 | 0,09 | 0,90 | 870 | 475 | 12100 | | | | |
| | 1703 | 0,08 | 0,82 | 0,10 | 1,00 | 870 | 475 | 12100 | | | | |
| | 1520 | 0,09 | 0,92 | 0,11 | 1,12 | 870 | 475 | 12100 | | | | |
| | 1410 | 0,10 | 0,99 | 0,12 | 1,21 | 870 | 475 | 12100 | | | | |
| | 1265 | 0,11 | 1,11 | 0,13 | 1,34 | 870 | 475 | 12100 | | | | |
| | 1187 | 0,12 | 1,18 | 0,14 | 1,43 | 870 | 475 | 12100 | | | | |
| | 981 | 0,14 | 1,43 | 0,17 | 1,73 | 870 | 475 | 12100 | | | | |
| | 921 | 0,15 | 1,52 | 0,18 | 1,85 | 870 | 475 | 12100 | | | | |
| | 865 | 0,16 | 1,62 | 0,19 | 1,97 | 870 | 475 | 12100 | | | | |
| | 812 | 0,17 | 1,72 | 0,21 | 2,09 | 870 | 475 | 12100 | | | | |
| | 769 | 0,18 | 1,82 | 0,22 | 2,21 | 870 | 475 | 12100 | | | | |
| | 722 | 0,19 | 1,94 | 0,23 | 2,35 | 870 | 475 | 12100 | | | | |
| | 648 | 0,21 | 2,16 | 0,26 | 2,62 | 870 | 475 | 12100 | | | | |
| | 576 | 0,24 | 2,43 | 0,29 | 2,95 | 870 | 475 | 12100 | | | | |
| | 447 | 0,30 | 3,13 | 0,37 | 3,80 | 870 | 475 | 12100 | | | | |
| | 394 | 0,34 | 3,55 | 0,42 | 4,31 | 870 | 475 | 12100 | | | | |
| 351 | 0,39 | 3,99 | 0,47 | 4,85 | 870 | 475 | 12100 | | | | | |
| 314 | 0,43 | 4,46 | 0,52 | 5,41 | 870 | 475 | 12100 | | | | | |
| 283 | 0,48 | 4,95 | 0,58 | 6,01 | 870 | 475 | 12100 | | | | | |
| 154 | 0,86 | 9,06 | 1,0 | 11 | 870 | 1200 | 12100 | | | | | |
| 134 | 1,00 | 10 | 1,2 | 13 | 870 | 1200 | 12100 | | | | | |
| 103 | 1,3 | 14 | 1,6 | 17 | 870 | 1200 | 12100 | | | | | |
| 91,36 | 1,5 | 15 | 1,8 | 19 | 870 | 1200 | 12100 | | | | | |
| 81,25 | 1,6 | 17 | 2,0 | 21 | 870 | 1200 | 12100 | | | | | |
| 72,76 | 1,8 | 19 | 2,2 | 23 | 870 | 1200 | 12100 | | | | | |
| 65,52 | 2,0 | 21 | 2,5 | 26 | 870 | 1200 | 12100 | | | | | |
| 59,42 | 2,2 | 24 | 2,7 | 29 | 870 | 1200 | 12100 | | | | | |
| 52,47 | 2,5 | 27 | 3,1 | 32 | 870 | 1200 | 12100 | | | | | |
| 46,36 | 2,9 | 30 | 3,5 | 37 | 870 | 1200 | 12100 | | | | | |
| 41,67 | 3,2 | 34 | 3,9 | 41 | 870 | 1200 | 12100 | | | | | |
| 37,38 | 3,6 | 37 | 4,3 | 45 | 870 | 1200 | 12100 | | | | | |
| | | | | | | | | | iRA iRF iRAF | 73 | 247 248 249 | 37 40 43 |



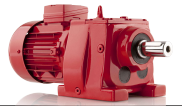
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | | kg | |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|----------|--|--|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1400rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1700rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 870 Nm | 31,16 | 4,3 | 45 | 5,2 | 55 | 870 | 1200 | 12100 | İRA İRF İRAF | 73 | | | 247 248 249 | 37 40 43 |
| | 27,84 | 4,8 | 50 | 5,8 | 61 | 870 | 1200 | 12100 | | | | | | |
| | 24,98 | 5,3 | 56 | 6,5 | 68 | 870 | 1200 | 12100 | | | | | | |
| | 22,48 | 5,9 | 62 | 7,2 | 76 | 870 | 1200 | 12100 | | | | | | |
| | 20,29 | 6,6 | 69 | 8,0 | 84 | 870 | 1200 | 12100 | | | | | | |
| | 18,35 | 7,3 | 76 | 8,8 | 93 | 870 | 1200 | 12100 | | | | | | |
| | 16,62 | 8,0 | 84 | 9,7 | 102 | 870 | 1200 | 12100 | | | | | | |
| | 15,07 | 8,9 | 93 | 10,8 | 113 | 870 | 1200 | 12100 | | | | | | |
| | 13,53 | 9,7 | 104 | 11,8 | 126 | 870 | 1200 | 9000 | | | | | | |
| | 12,02 | 10,9 | 116 | 13,3 | 141 | 870 | 1200 | 9000 | | | | | | |
| | 10,74 | 12,2 | 130 | 14,9 | 158 | 870 | 1200 | 9000 | | | | | | |
| | 9,337 | 14,1 | 150 | 17,1 | 182 | 870 | 1200 | 9000 | | | | | | |
| | 8,333 | 15,8 | 168 | 19,2 | 204 | 870 | 1200 | 9000 | | | | | | |
| | 7,476 | 17,6 | 187 | 21,4 | 227 | 870 | 1200 | 9000 | | | | | | |
| | 6,730 | 19,5 | 208 | 23,7 | 253 | 870 | 1200 | 9000 | | | | | | |
| | 6,074 | 21,6 | 230 | 26,3 | 280 | 870 | 1200 | 9000 | | | | | | |
| | 5,494 | 23,9 | 255 | 29,1 | 309 | 870 | 1200 | 9000 | | | | | | |
| | 4,995 | 26,3 | 280 | 32,0 | 340 | 870 | 1200 | 9000 | | | | | | |
| | 4,497 | 29,2 | 311 | 35,5 | 378 | 870 | 1200 | 9000 | | | | | | |
| | 4,059 | 32,4 | 345 | 39,3 | 419 | 870 | 1200 | 9000 | | | | | | |
| 3,670 | 35,8 | 381 | 43,5 | 463 | 870 | 1200 | 9000 | | | | | | | |
| 3,324 | 39,5 | 421 | 48,0 | 511 | 870 | 1200 | 9000 | | | | | | | |
| 3,014 | 43,6 | 464 | 53,0 | 564 | 870 | 1200 | 9000 | | | | | | | |
| 2,733 | 48,1 | 512 | 58,4 | 622 | 870 | 1200 | 9000 | | | | | | | |
| 2,571 | 51,1 | 545 | 62,1 | 661 | 870 | 1200 | 9000 | | | | | | | |
| 1500 Nm | 18231 | 0,01 | 0,08 | 0,02 | 0,09 | 1500 | 590 | 17000 | İRA İRF İRAF | 83 İR 53 | | | 277 278 279 | 120 125 127 |
| | 15217 | 0,02 | 0,09 | 0,02 | 0,11 | 1500 | 590 | 17000 | | | | | | |
| | 13984 | 0,02 | 0,10 | 0,02 | 0,12 | 1500 | 590 | 17000 | | | | | | |
| | 12302 | 0,02 | 0,11 | 0,02 | 0,14 | 1500 | 590 | 17500 | | | | | | |
| | 10968 | 0,02 | 0,13 | 0,03 | 0,15 | 1500 | 590 | 17500 | | | | | | |
| | 8893 | 0,03 | 0,16 | 0,03 | 0,19 | 1500 | 590 | 17500 | | | | | | |
| | 7902 | 0,03 | 0,18 | 0,04 | 0,22 | 1500 | 590 | 17500 | | | | | | |
| | 7092 | 0,03 | 0,20 | 0,04 | 0,24 | 1500 | 590 | 17500 | | | | | | |
| | 6393 | 0,04 | 0,22 | 0,05 | 0,27 | 1500 | 590 | 17500 | | | | | | |
| | 5484 | 0,04 | 0,26 | 0,05 | 0,31 | 1500 | 590 | 17500 | | | | | | |
| | 4922 | 0,05 | 0,28 | 0,06 | 0,35 | 1500 | 590 | 17500 | | | | | | |
| | 4437 | 0,05 | 0,32 | 0,07 | 0,38 | 1500 | 590 | 17500 | | | | | | |
| | 4015 | 0,06 | 0,35 | 0,07 | 0,42 | 1500 | 590 | 17500 | | | | | | |
| | 3593 | 0,07 | 0,39 | 0,08 | 0,47 | 1500 | 590 | 17500 | | | | | | |
| | 3239 | 0,07 | 0,43 | 0,09 | 0,52 | 1500 | 590 | 17500 | | | | | | |
| | 2930 | 0,08 | 0,48 | 0,10 | 0,58 | 1500 | 590 | 17500 | | | | | | |
| | 2659 | 0,09 | 0,53 | 0,11 | 0,64 | 1500 | 590 | 17500 | | | | | | |
| | 2419 | 0,10 | 0,58 | 0,12 | 0,70 | 1500 | 590 | 17500 | | | | | | |
| | 2205 | 0,11 | 0,63 | 0,13 | 0,77 | 1500 | 590 | 17500 | | | | | | |
| | 2013 | 0,12 | 0,70 | 0,15 | 0,84 | 1500 | 590 | 17500 | | | | | | |
| | 1840 | 0,13 | 0,76 | 0,16 | 0,92 | 1500 | 590 | 17500 | | | | | | |
| | 1778 | 0,13 | 0,79 | 0,16 | 0,96 | 1500 | 590 | 17500 | | | | | | |
| | 1580 | 0,15 | 0,89 | 0,18 | 1,08 | 1500 | 590 | 17500 | | | | | | |
| | 1418 | 0,17 | 0,99 | 0,20 | 1,20 | 1500 | 590 | 17500 | | | | | | |
| | 1308 | 0,18 | 1,07 | 0,22 | 1,30 | 1500 | 590 | 17500 | | | | | | |
| | 1279 | 0,19 | 1,09 | 0,23 | 1,33 | 1500 | 590 | 17500 | | | | | | |
| | 1162 | 0,20 | 1,20 | 0,25 | 1,46 | 1500 | 590 | 17500 | | | | | | |
| | 1157 | 0,20 | 1,21 | 0,25 | 1,47 | 1500 | 590 | 17500 | | | | | | |
| | 1050 | 0,23 | 1,33 | 0,27 | 1,62 | 1500 | 590 | 17500 | | | | | | |
| | 1043 | 0,23 | 1,34 | 0,28 | 1,63 | 1500 | 590 | 17500 | | | | | | |
| 940 | 0,25 | 1,49 | 0,31 | 1,81 | 1500 | 590 | 17500 | | | | | | | |
| 850 | 0,28 | 1,65 | 0,34 | 2,00 | 1500 | 590 | 17500 | | | | | | | |
| 772 | 0,31 | 1,81 | 0,37 | 2,20 | 1500 | 590 | 17500 | | | | | | | |
| 723 | 0,33 | 1,94 | 0,40 | 2,35 | 1500 | 590 | 17500 | | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 82 İR 53 | | | 277 278 279 | 130 135 137 |
| | | | | | | | | | | | | | | |
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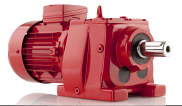
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 1500 Nm | 700 | 0,33 | 2,00 | 0,41 | 2,43 | 1500 | 590 | 17500 | IRA IRF IRAF | 84 | 271 272 273 | 106 111 113 |
| | 635 | 0,37 | 2,21 | 0,45 | 2,68 | 1500 | 590 | 17500 | | | | |
| | 579 | 0,40 | 2,42 | 0,49 | 2,94 | 1500 | 590 | 17500 | | | | |
| | 530 | 0,44 | 2,64 | 0,54 | 3,21 | 1500 | 590 | 17500 | | | | |
| | 487 | 0,48 | 2,87 | 0,58 | 3,49 | 1500 | 590 | 17500 | | | | |
| | 428 | 0,55 | 3,27 | 0,66 | 3,97 | 1500 | 590 | 17500 | | | | |
| | 382 | 0,61 | 3,67 | 0,74 | 4,45 | 1500 | 590 | 17500 | | | | |
| | 343 | 0,68 | 4,08 | 0,83 | 4,96 | 1500 | 590 | 17500 | | | | |
| | 310 | 0,75 | 4,52 | 0,92 | 5,49 | 1500 | 590 | 17500 | | | | |
| | 275 | 0,85 | 5,09 | 1,0 | 6,18 | 1500 | 590 | 17500 | | | | |
| | 273 | 0,86 | 5,13 | 1,0 | 6,23 | 1500 | 590 | 17500 | | | | |
| | 243 | 0,96 | 5,77 | 1,2 | 7,01 | 1500 | 590 | 17500 | | | | |
| | 218 | 1,1 | 6,43 | 1,3 | 7,81 | 1500 | 590 | 17500 | | | | |
| | 196 | 1,2 | 7,13 | 1,4 | 8,66 | 1500 | 590 | 17500 | | | | |
| | 174 | 1,3 | 8,02 | 1,6 | 9,74 | 1500 | 590 | 17500 | | | | |
| | 168 | 1,4 | 8,31 | 1,7 | 10 | 1500 | 590 | 17500 | | | | |
| | 251 | 0,92 | 5,59 | 1,1 | 6,79 | 1500 | 1550 | 17500 | | | | |
| | 221 | 1,0 | 6,33 | 1,3 | 7,69 | 1500 | 1550 | 17500 | | | | |
| | 209 | 1,1 | 6,71 | 1,3 | 8,15 | 1500 | 1550 | 17500 | | | | |
| | 187 | 1,2 | 7,50 | 1,5 | 9,11 | 1500 | 1550 | 17500 | | | | |
| | 168 | 1,4 | 8,32 | 1,7 | 10 | 1500 | 1550 | 17500 | | | | |
| | 153 | 1,5 | 9,17 | 1,8 | 11 | 1500 | 1550 | 17500 | | | | |
| | 139 | 1,7 | 10 | 2,0 | 12 | 1500 | 1550 | 17500 | | | | |
| | 127 | 1,8 | 11 | 2,2 | 13 | 1500 | 1550 | 17500 | | | | |
| | 117 | 2,0 | 12 | 2,4 | 15 | 1500 | 1550 | 17500 | | | | |
| | 103 | 2,2 | 14 | 2,7 | 17 | 1500 | 1550 | 17500 | | | | |
| | 91,85 | 2,5 | 15 | 3,0 | 19 | 1500 | 1550 | 17500 | | | | |
| | 82,47 | 2,8 | 17 | 3,4 | 21 | 1500 | 1550 | 17500 | | | | |
| | 74,47 | 3,1 | 19 | 3,8 | 23 | 1500 | 1550 | 17500 | | | | |
| | 66,18 | 3,5 | 21 | 4,2 | 26 | 1500 | 1550 | 17500 | | | | |
| | 59,39 | 3,9 | 24 | 4,7 | 29 | 1500 | 1550 | 17500 | | | | |
| | 53,54 | 4,3 | 26 | 5,2 | 32 | 1500 | 1550 | 17500 | | | | |
| | 47,59 | 4,8 | 29 | 5,9 | 36 | 1500 | 1550 | 17500 | | | | |
| | 45,93 | 5,0 | 30 | 6,1 | 37 | 1500 | 1550 | 17500 | | | | |
| | 41,22 | 5,6 | 34 | 6,8 | 41 | 1500 | 1550 | 17500 | | | | |
| | 37,16 | 6,2 | 38 | 7,5 | 46 | 1500 | 1550 | 17500 | | | | |
| | 33,03 | 7,0 | 42 | 8,5 | 51 | 1500 | 1550 | 17500 | | | | |
| | 30,08 | 7,6 | 47 | 9,3 | 57 | 1500 | 1550 | 17500 | | | | |
| | 27,12 | 8,5 | 52 | 10,3 | 63 | 1500 | 1550 | 17500 | | | | |
| | 24,54 | 9,4 | 57 | 11,4 | 69 | 1500 | 1550 | 17500 | | | | |
| 22,27 | 10,3 | 63 | 12,5 | 76 | 1500 | 1550 | 17500 | | | | | |
| 20,26 | 11,4 | 69 | 13,8 | 84 | 1500 | 1550 | 17500 | | | | | |
| 18,47 | 12,5 | 76 | 15,1 | 92 | 1500 | 1550 | 17500 | | | | | |
| 16,86 | 13,6 | 83 | 16,6 | 101 | 1500 | 1550 | 17500 | | | | | |
| 15,41 | 14,9 | 91 | 18,1 | 110 | 1500 | 1550 | 17500 | | | | | |
| 14,90 | 15,2 | 94 | 18,5 | 114 | 1500 | 1550 | 13000 | | | | | |
| 13,24 | 17,1 | 106 | 20,8 | 128 | 1500 | 1550 | 13000 | | | | | |
| 11,88 | 19,1 | 118 | 23,2 | 143 | 1500 | 1550 | 13000 | | | | | |
| 10,71 | 21,2 | 131 | 25,7 | 159 | 1500 | 1550 | 13000 | | | | | |
| 9,689 | 23,4 | 144 | 28,4 | 175 | 1500 | 1550 | 13000 | | | | | |
| 8,793 | 25,8 | 159 | 31,3 | 193 | 1500 | 1550 | 13000 | | | | | |
| 8,244 | 27,5 | 170 | 33,4 | 206 | 1500 | 1550 | 13000 | | | | | |
| 7,432 | 30,5 | 188 | 37,0 | 229 | 1500 | 1550 | 13000 | | | | | |
| 6,724 | 33,7 | 208 | 40,9 | 253 | 1500 | 1550 | 13000 | | | | | |
| 6,103 | 37,1 | 229 | 45,1 | 279 | 1500 | 1550 | 13000 | | | | | |
| 5,552 | 40,8 | 252 | 49,6 | 306 | 1500 | 1550 | 13000 | | | | | |
| 5,061 | 44,8 | 277 | 54,4 | 336 | 1500 | 1550 | 13000 | | | | | |
| | | | | | | | | | IRA IRF IRAF | 82 | 265 266 267 | 89 94 96 |



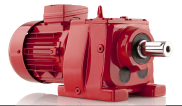
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | |
|--|-------------------------------------|--|---|--|---|---|--|---|---------------------|----------|--|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1400rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1700rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 1500 Nm | 4,620 | 49,1 | 303 | 59,6 | 368 | 1500 | 1550 | 13000 | IRA IRF IRAF | 82 | | 265 266 267 | 89 94 96 |
| | 4,222 | 53,7 | 332 | 65,2 | 403 | 1500 | 1550 | 13000 | | | | | |
| | 4,052 | 55,9 | 346 | 67,9 | 420 | 1500 | 1550 | 13000 | | | | | |
| | 3,694 | 61,4 | 379 | 74,5 | 460 | 1500 | 1550 | 13000 | | | | | |
| | 3,372 | 67,2 | 415 | 81,6 | 504 | 1500 | 1550 | 13000 | | | | | |
| | 3,082 | 73,5 | 454 | 89,3 | 552 | 1500 | 1550 | 13000 | | | | | |
| | 2,926 | 77,5 | 478 | 94,1 | 581 | 1500 | 1550 | 13000 | | | | | |
| | 2,674 | 84,8 | 524 | 103 | 636 | 1500 | 1550 | 13000 | | | | | |
| | 2,373 | 95,5 | 590 | 116 | 716 | 1500 | 1550 | 13000 | | | | | |
| 2800 Nm | 22852 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | IRA IRF IRAF | 93 IR 63 | | 295 296 297 | 154 164 174 |
| | 20623 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 18725 | 0,02 | 0,07 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 18426 | 0,02 | 0,08 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 17911 | 0,03 | 0,08 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 16707 | 0,03 | 0,08 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 16629 | 0,03 | 0,08 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 15663 | 0,03 | 0,09 | 0,03 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 15160 | 0,03 | 0,09 | 0,04 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 15098 | 0,03 | 0,09 | 0,04 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 14679 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 14410 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 13583 | 0,03 | 0,10 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 13137 | 0,03 | 0,11 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 13037 | 0,03 | 0,11 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 12258 | 0,04 | 0,11 | 0,04 | 0,14 | 2800 | 590 | 25000 | | | | | |
| | 11681 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 11577 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 11130 | 0,04 | 0,13 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 10542 | 0,04 | 0,13 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 10288 | 0,04 | 0,14 | 0,05 | 0,17 | 2800 | 590 | 25000 | | | | | |
| | 9565 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| | 9309 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| | 9206 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| | 8565 | 0,05 | 0,16 | 0,06 | 0,20 | 2800 | 590 | 25000 | | | | | |
| | 8198 | 0,05 | 0,17 | 0,07 | 0,21 | 2800 | 590 | 25000 | | | | | |
| | 8006 | 0,06 | 0,17 | 0,07 | 0,21 | 2800 | 590 | 25000 | | | | | |
| | 7808 | 0,06 | 0,18 | 0,07 | 0,22 | 2800 | 590 | 25000 | | | | | |
| | 7366 | 0,06 | 0,19 | 0,07 | 0,23 | 2800 | 590 | 25000 | | | | | |
| | 7224 | 0,06 | 0,19 | 0,08 | 0,24 | 2800 | 590 | 25000 | | | | | |
| | 6881 | 0,07 | 0,20 | 0,08 | 0,25 | 2800 | 590 | 25000 | | | | | |
| | 6715 | 0,07 | 0,21 | 0,08 | 0,25 | 2800 | 590 | 25000 | | | | | |
| | 6420 | 0,07 | 0,22 | 0,09 | 0,26 | 2800 | 590 | 25000 | | | | | |
| | 6115 | 0,07 | 0,23 | 0,09 | 0,28 | 2800 | 590 | 25000 | | | | | |
| | 5918 | 0,08 | 0,24 | 0,09 | 0,29 | 2800 | 590 | 25000 | | | | | |
| | 5745 | 0,08 | 0,24 | 0,09 | 0,30 | 2800 | 590 | 25000 | | | | | |
| | 5472 | 0,08 | 0,26 | 0,10 | 0,31 | 2800 | 590 | 25000 | | | | | |
| | 5259 | 0,09 | 0,27 | 0,10 | 0,32 | 2800 | 590 | 25000 | | | | | |
| | 5169 | 0,09 | 0,27 | 0,11 | 0,33 | 2800 | 590 | 25000 | | | | | |
| | 4872 | 0,09 | 0,29 | 0,11 | 0,35 | 2800 | 590 | 25000 | | | | | |
| 4706 | 0,10 | 0,30 | 0,12 | 0,36 | 2800 | 590 | 25000 | | | | | | |
| 4673 | 0,10 | 0,30 | 0,12 | 0,36 | 2800 | 590 | 25000 | | | | | | |
| 4294 | 0,10 | 0,33 | 0,13 | 0,40 | 2800 | 590 | 25000 | | | | | | |
| 4241 | 0,11 | 0,33 | 0,13 | 0,40 | 2800 | 590 | 25000 | | | | | | |
| 4190 | 0,11 | 0,33 | 0,13 | 0,41 | 2800 | 590 | 25000 | | | | | | |



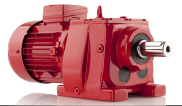
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|----|--|----|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | |
| | | 2800 Nm | 3954 | 0,11 | 0,35 | | | | | | | | 0,14 | 0,43 |
| 3688 | 0,12 | | 0,38 | 0,15 | 0,46 | 2800 | 590 | 25000 | | | | | | |
| 3582 | 0,12 | | 0,39 | 0,15 | 0,47 | 2800 | 590 | 25000 | | | | | | |
| 3341 | 0,13 | | 0,42 | 0,16 | 0,51 | 2800 | 590 | 25000 | | | | | | |
| 3241 | 0,14 | | 0,43 | 0,17 | 0,52 | 2800 | 590 | 25000 | | | | | | |
| 2936 | 0,15 | | 0,48 | 0,18 | 0,58 | 2800 | 590 | 25000 | | | | | | |
| 2878 | 0,15 | | 0,49 | 0,19 | 0,59 | 2800 | 590 | 25000 | | | | | | |
| 2607 | 0,17 | | 0,54 | 0,21 | 0,65 | 2800 | 590 | 25000 | | | | | | |
| 2336 | 0,19 | | 0,60 | 0,23 | 0,73 | 2800 | 590 | 25000 | | | | | | |
| 2108 | 0,21 | | 0,66 | 0,26 | 0,81 | 2800 | 590 | 25000 | | | | | | |
| 1914 | 0,23 | | 0,73 | 0,28 | 0,89 | 2800 | 590 | 25000 | | | | | | |
| 1601 | 0,28 | | 0,87 | 0,34 | 1,06 | 2800 | 590 | 25000 | | | | | | |
| 1473 | 0,30 | | 0,95 | 0,36 | 1,15 | 2800 | 590 | 25000 | | | | | | |
| 1343 | 0,33 | | 1,04 | 0,40 | 1,27 | 2800 | 590 | 25000 | | | | | | |
| 1183 | 0,37 | | 1,18 | 0,45 | 1,44 | 2800 | 590 | 25000 | | | | | | |
| 1052 | 0,42 | | 1,33 | 0,51 | 1,62 | 2800 | 590 | 25000 | | | | | | |
| 941 | 0,47 | | 1,49 | 0,57 | 1,81 | 2800 | 590 | 25000 | | | | | | |
| 838 | 0,53 | | 1,67 | 0,64 | 2,03 | 2800 | 590 | 25000 | | | | | | |
| 739 | 0,60 | | 1,89 | 0,73 | 2,30 | 2800 | 590 | 25000 | | | | | | |
| 656 | 0,67 | | 2,13 | 0,82 | 2,59 | 2800 | 590 | 25000 | | | | | | |
| 587 | 0,75 | | 2,39 | 0,92 | 2,90 | 2800 | 590 | 25000 | | | | | | |
| 528 | 0,84 | | 2,65 | 1,0 | 3,22 | 2800 | 590 | 25000 | | | | | | |
| 478 | 0,91 | | 2,93 | 1,1 | 3,55 | 2800 | 590 | 25000 | | | | | | |
| 431 | 1,0 | | 3,25 | 1,2 | 3,94 | 2800 | 590 | 25000 | | | | | | |
| 380 | 1,1 | | 3,68 | 1,4 | 4,47 | 2800 | 590 | 25000 | | | | | | |
| 338 | 1,3 | | 4,14 | 1,6 | 5,03 | 2800 | 590 | 25000 | | | | | | |
| 302 | 1,4 | | 4,63 | 1,8 | 5,62 | 2800 | 590 | 25000 | | | | | | |
| 269 | 1,6 | | 5,20 | 2,0 | 6,32 | 2800 | 590 | 25000 | | | | | | |
| 237 | 1,8 | | 5,90 | 2,2 | 7,17 | 2800 | 590 | 25000 | | | | | | |
| 211 | 2,1 | | 6,64 | 2,5 | 8,07 | 2800 | 590 | 25000 | | | | | | |
| 189 | 2,3 | | 7,42 | 2,8 | 9,01 | 2800 | 590 | 25000 | | | | | | |
| 170 | 2,6 | | 8,25 | 3,1 | 10 | 2800 | 590 | 25000 | | | | | | |
| 153 | 2,8 | | 9,12 | 3,5 | 11 | 2800 | 590 | 25000 | | | | | | |
| 293 | 1,5 | | 4,77 | 1,8 | 5,79 | 2800 | 2500 | 25000 | | | | | | |
| 274 | 1,6 | | 5,11 | 1,9 | 6,21 | 2800 | 2500 | 25000 | | | | | | |
| 241 | 1,8 | | 5,82 | 2,2 | 7,07 | 2800 | 2500 | 25000 | | | | | | |
| 214 | 2,0 | | 6,55 | 2,4 | 7,96 | 2800 | 2500 | 25000 | | | | | | |
| 191 | 2,2 | | 7,32 | 2,7 | 8,88 | 2800 | 2500 | 25000 | | | | | | |
| 173 | 2,5 | | 8,11 | 3,0 | 9,84 | 2800 | 2500 | 25000 | | | | | | |
| 157 | 2,7 | | 8,93 | 3,3 | 11 | 2800 | 2500 | 25000 | | | | | | |
| 131 | 3,3 | | 11 | 4,0 | 13 | 2800 | 2500 | 25000 | | | | | | |
| 121 | 3,6 | | 12 | 4,3 | 14 | 2800 | 2500 | 25000 | | | | | | |
| 110 | 3,9 | | 13 | 4,7 | 15 | 2800 | 2500 | 25000 | | | | | | |
| 96,96 | 4,4 | | 14 | 5,4 | 18 | 2800 | 2500 | 25000 | | | | | | |
| 86,17 | 5,0 | | 16 | 6,1 | 20 | 2800 | 2500 | 25000 | | | | | | |
| 77,10 | 5,6 | | 18 | 6,8 | 22 | 2800 | 2500 | 25000 | | | | | | |
| 68,66 | 6,3 | | 20 | 7,6 | 25 | 2800 | 2500 | 25000 | | | | | | |
| 60,50 | 7,1 | | 23 | 8,6 | 28 | 2800 | 2500 | 25000 | | | | | | |
| 53,77 | 8,0 | 26 | 9,7 | 32 | 2800 | 2500 | 25000 | | | | | | | |
| 48,11 | 8,9 | 29 | 10,8 | 35 | 2800 | 2500 | 25000 | | | | | | | |
| 43,29 | 9,9 | 32 | 12,0 | 39 | 2800 | 2500 | 25000 | | | | | | | |
| 39,14 | 11,0 | 36 | 13,3 | 43 | 2800 | 2500 | 25000 | | | | | | | |
| 35,52 | 12,1 | 39 | 14,7 | 48 | 2800 | 2500 | 25000 | | | | | | | |
| 32,34 | 13,3 | 43 | 16,1 | 53 | 2800 | 2500 | 25000 | | | | | | | |
| 29,53 | 14,5 | 47 | 17,7 | 58 | 2800 | 2500 | 25000 | | | | | | | |
| 27,01 | 15,9 | 52 | 19,3 | 63 | 2800 | 2500 | 25000 | | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 93 | | | 283 284 285 | 133 143 153 |



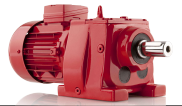
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|------------------|-----|-----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 2800 Nm | 24,76 | 17,3 | 57 | 21,1 | 69 | 2800 | 2500 | 25000 | İRA İRF İRAF | 93 | 283 | 133 |
| | 20,09 | 21,4 | 70 | 26,0 | 85 | 2800 | 2500 | 25000 | | | 284 | 143 |
| | 16,85 | 25,5 | 83 | 31,0 | 101 | 2800 | 2500 | 25000 | | | 285 | 153 |
| | 14,21 | 30,2 | 99 | 36,7 | 120 | 2800 | 2500 | 25000 | İRA İRF İRAF | 92 | 283 | 163 |
| | 23,38 | 18,1 | 60 | 22,0 | 73 | 2800 | 2500 | 20000 | | | | |
| | 20,60 | 20,5 | 68 | 24,9 | 83 | 2800 | 2500 | 20000 | | | | |
| | 18,31 | 23,1 | 76 | 28,1 | 93 | 2800 | 2500 | 20000 | | | | |
| | 16,38 | 25,8 | 85 | 31,4 | 104 | 2800 | 2500 | 20000 | | | | |
| | 14,74 | 28,7 | 95 | 34,8 | 115 | 2800 | 2500 | 20000 | | | | |
| | 13,33 | 31,7 | 105 | 38,5 | 128 | 2800 | 2500 | 20000 | | | | |
| | 11,01 | 38,4 | 127 | 46,6 | 154 | 2800 | 2500 | 20000 | | | | |
| | 10,05 | 42,1 | 139 | 51,1 | 169 | 2800 | 2500 | 20000 | | | | |
| | 9,200 | 46,0 | 152 | 55,8 | 185 | 2800 | 2500 | 20000 | | | | |
| | 8,317 | 50,9 | 168 | 61,8 | 204 | 2800 | 2500 | 20000 | | | | |
| | 7,548 | 56,1 | 185 | 68,1 | 225 | 2800 | 2500 | 20000 | | | | |
| | 6,872 | 61,6 | 204 | 74,8 | 247 | 2800 | 2500 | 20000 | | | | |
| | 6,274 | 67,4 | 223 | 81,9 | 271 | 2800 | 2500 | 20000 | | | | |
| | 5,740 | 73,7 | 244 | 89,5 | 296 | 2800 | 2500 | 20000 | | | | |
| | 5,261 | 80,4 | 266 | 97,6 | 323 | 2800 | 2500 | 20000 | | | | |
| | 4,437 | 95,4 | 316 | 116 | 383 | 2800 | 2500 | 20000 | | | | |
| | 4,080 | 104 | 343 | 126 | 417 | 2800 | 2500 | 20000 | | | | |
| | 3,753 | 113 | 373 | 137 | 453 | 2800 | 2500 | 20000 | | | | |
| | 3,580 | 118 | 391 | 143 | 475 | 2800 | 2500 | 20000 | | | | |
| | 3,019 | 140 | 464 | 170 | 563 | 2800 | 2500 | 20000 | | | | |
| 2,776 | 152 | 504 | 185 | 612 | 2800 | 2500 | 20000 | | | | | |
| 2,554 | 166 | 548 | 201 | 666 | 2800 | 2500 | 20000 | | | | | |
| 2,450 | 173 | 571 | 210 | 694 | 2800 | 2500 | 20000 | | | | | |
| 4300 Nm | 22099 | 0,03 | 0,06 | 0,04 | 0,08 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 73 | 313 | 253 |
| | 18788 | 0,04 | 0,07 | 0,04 | 0,09 | 4300 | 1200 | 34000 | | | | |
| | 16845 | 0,04 | 0,08 | 0,05 | 0,10 | 4300 | 1200 | 34000 | | | | |
| | 15213 | 0,05 | 0,09 | 0,06 | 0,11 | 4300 | 1200 | 34000 | | | | |
| | 13823 | 0,05 | 0,10 | 0,06 | 0,12 | 4300 | 1200 | 34000 | | | | |
| | 12625 | 0,05 | 0,11 | 0,07 | 0,13 | 4300 | 1200 | 34000 | | | | |
| | 11581 | 0,06 | 0,12 | 0,07 | 0,15 | 4300 | 1200 | 34000 | | | | |
| | 10325 | 0,07 | 0,14 | 0,08 | 0,16 | 4300 | 1200 | 34000 | | | | |
| | 9118 | 0,08 | 0,15 | 0,09 | 0,19 | 4300 | 1200 | 34000 | | | | |
| | 8104 | 0,09 | 0,17 | 0,10 | 0,21 | 4300 | 1200 | 34000 | | | | |
| | 7241 | 0,10 | 0,19 | 0,12 | 0,23 | 4300 | 1200 | 34000 | | | | |
| | 6496 | 0,11 | 0,22 | 0,13 | 0,26 | 4300 | 1200 | 34000 | | | | |
| | 5848 | 0,12 | 0,24 | 0,14 | 0,29 | 4300 | 1200 | 34000 | | | | |
| | 5278 | 0,13 | 0,27 | 0,16 | 0,32 | 4300 | 1200 | 34000 | | | | |
| | 4790 | 0,14 | 0,29 | 0,17 | 0,35 | 4300 | 1200 | 34000 | | | | |
| | 4230 | 0,16 | 0,33 | 0,20 | 0,40 | 4300 | 1200 | 34000 | | | | |
| | 3760 | 0,18 | 0,37 | 0,22 | 0,45 | 4300 | 1200 | 34000 | | | | |
| | 3359 | 0,21 | 0,42 | 0,25 | 0,51 | 4300 | 1200 | 34000 | | | | |
| | 3014 | 0,23 | 0,46 | 0,28 | 0,56 | 4300 | 1200 | 34000 | | | | |
| | 2713 | 0,25 | 0,52 | 0,31 | 0,63 | 4300 | 1200 | 34000 | | | | |
| | 2448 | 0,28 | 0,57 | 0,34 | 0,69 | 4300 | 1200 | 34000 | | | | |
| | 2733 | 0,25 | 0,51 | 0,30 | 0,62 | 4300 | 1200 | 34000 | | | | |
| | 2413 | 0,28 | 0,58 | 0,34 | 0,70 | 4300 | 1200 | 34000 | | | | |
| | 2145 | 0,32 | 0,65 | 0,38 | 0,79 | 4300 | 1200 | 34000 | | | | |
| 1916 | 0,35 | 0,73 | 0,43 | 0,89 | 4300 | 1200 | 34000 | | | | | |
| 1635 | 0,42 | 0,86 | 0,50 | 1,04 | 4300 | 1200 | 34000 | | | | | |
| 1460 | 0,47 | 0,96 | 0,57 | 1,16 | 4300 | 1200 | 34000 | | | | | |
| 1311 | 0,52 | 1,07 | 0,63 | 1,30 | 4300 | 1200 | 34000 | | | | | |
| 1180 | 0,58 | 1,19 | 0,70 | 1,44 | 4300 | 1200 | 34000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 102 İR 73 | 313 | 246 |
| | | | | | | | | | | | 314 | 249 |
| | | | | | | | | | | | 315 | 271 |



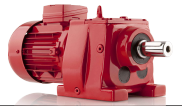
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 4300 Nm | 1173 | 0,58 | 1,19 | 0,70 | 1,45 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 72 | 313 | 251 |
| | 1046 | 0,65 | 1,34 | 0,79 | 1,63 | 4300 | 1200 | 34000 | | | 314 | 254 |
| | 923 | 0,74 | 1,52 | 0,89 | 1,84 | 4300 | 1200 | 34000 | | | 315 | 276 |
| | 821 | 0,83 | 1,71 | 1,0 | 2,07 | 4300 | 1200 | 34000 | İRA İRF İRAF | 104 | 307 308 309 | 246 249 271 |
| | 803 | 0,83 | 1,74 | 1,0 | 2,12 | 4300 | 1200 | 34000 | | | | |
| | 720 | 0,93 | 1,95 | 1,1 | 2,36 | 4300 | 1200 | 34000 | | | | |
| | 612 | 1,1 | 2,29 | 1,3 | 2,78 | 4300 | 1200 | 34000 | | | | |
| | 548 | 1,2 | 2,55 | 1,5 | 3,10 | 4300 | 1200 | 34000 | | | | |
| | 495 | 1,4 | 2,83 | 1,6 | 3,44 | 4300 | 1200 | 34000 | | | | |
| | 447 | 1,5 | 3,13 | 1,8 | 3,81 | 4300 | 1200 | 34000 | | | | |
| | 406 | 1,7 | 3,45 | 2,0 | 4,19 | 4300 | 1200 | 34000 | | | | |
| | 371 | 1,8 | 3,78 | 2,2 | 4,59 | 4300 | 1200 | 34000 | | | | |
| | 340 | 2,0 | 4,12 | 2,4 | 5,00 | 4300 | 1200 | 34000 | | | | |
| | 306 | 2,2 | 4,57 | 2,7 | 5,55 | 4300 | 1200 | 34000 | | | | |
| | 281 | 2,4 | 4,98 | 2,9 | 6,05 | 4300 | 1200 | 34000 | | | | |
| | 256 | 2,6 | 5,47 | 3,1 | 6,64 | 4300 | 3750 | 30000 | İRA İRF İRAF | 103 | 301 302 303 | 207 210 232 |
| | 225 | 2,9 | 6,22 | 3,6 | 7,55 | 4300 | 3750 | 30000 | | | | |
| | 208 | 3,2 | 6,74 | 3,9 | 8,19 | 4300 | 3750 | 30000 | | | | |
| | 185 | 3,6 | 7,58 | 4,3 | 9,21 | 4300 | 3750 | 30000 | | | | |
| | 165 | 4,0 | 8,46 | 4,8 | 10 | 4300 | 3750 | 30000 | | | | |
| | 141 | 4,7 | 9,95 | 5,7 | 12 | 4300 | 3750 | 30000 | | | | |
| | 126 | 5,2 | 11 | 6,3 | 13 | 4300 | 3750 | 30000 | | | | |
| | 113 | 5,8 | 12 | 7,1 | 15 | 4300 | 3750 | 30000 | | | | |
| | 104 | 6,4 | 14 | 7,7 | 16 | 4300 | 3750 | 30000 | | | | |
| | 94,54 | 7,0 | 15 | 8,5 | 18 | 4300 | 3750 | 30000 | | | | |
| | 86,72 | 7,6 | 16 | 9,2 | 20 | 4300 | 3750 | 30000 | | | | |
| | 77,32 | 8,5 | 18 | 10,4 | 22 | 4300 | 3750 | 30000 | | | | |
| | 68,28 | 9,7 | 21 | 11,7 | 25 | 4300 | 3750 | 30000 | | | | |
| | 60,69 | 10,9 | 23 | 13,2 | 28 | 4300 | 3750 | 30000 | | | | |
| | 54,22 | 12,2 | 26 | 14,8 | 31 | 4300 | 3750 | 30000 | | | | |
| | 48,65 | 13,6 | 29 | 16,5 | 35 | 4300 | 3750 | 30000 | | | | |
| | 43,79 | 15,1 | 32 | 18,3 | 39 | 4300 | 3750 | 30000 | | | | |
| | 39,53 | 16,7 | 35 | 20,3 | 43 | 4300 | 3750 | 30000 | | | | |
| | 35,87 | 18,4 | 39 | 22,3 | 47 | 4300 | 3750 | 30000 | | | | |
| | 31,68 | 20,8 | 44 | 25,3 | 54 | 4300 | 3750 | 30000 | | | | |
| | 28,16 | 23,4 | 50 | 28,4 | 60 | 4300 | 3750 | 30000 | | | | |
| | 25,16 | 26,2 | 56 | 31,8 | 68 | 4300 | 3750 | 30000 | | | | |
| | 22,57 | 29,2 | 62 | 35,5 | 75 | 4300 | 3750 | 30000 | | | | |
| | 20,32 | 32,5 | 69 | 39,4 | 84 | 4300 | 3750 | 30000 | | | | |
| | 18,37 | 35,9 | 76 | 43,6 | 93 | 4300 | 3750 | 30000 | | | | |
| | 16,58 | 39,8 | 84 | 48,3 | 103 | 4300 | 3750 | 30000 | | | | |
| | 15,02 | 43,9 | 93 | 53,3 | 113 | 4300 | 3750 | 30000 | | | | |
| 17,69 | 36,7 | 79 | 44,6 | 96 | 4300 | 3750 | 25000 | İRA İRF İRAF | 102 | 301 302 303 | 200 203 225 | |
| 15,62 | 41,6 | 90 | 50,5 | 109 | 4300 | 3750 | 25000 | | | | | |
| 13,89 | 46,8 | 101 | 56,8 | 122 | 4300 | 3750 | 25000 | | | | | |
| 12,41 | 52,4 | 113 | 63,6 | 137 | 4300 | 3750 | 25000 | | | | | |
| 10,59 | 61,4 | 132 | 74,5 | 161 | 4300 | 3750 | 25000 | | | | | |
| 9,457 | 68,7 | 148 | 83,4 | 180 | 4300 | 3750 | 25000 | | | | | |
| 8,485 | 76,6 | 165 | 93,0 | 200 | 4300 | 3750 | 25000 | | | | | |
| 7,638 | 85,1 | 183 | 103 | 223 | 4300 | 3750 | 25000 | | | | | |
| 7,144 | 90,9 | 196 | 110 | 238 | 4300 | 3750 | 25000 | | | | | |
| 6,382 | 102 | 219 | 124 | 266 | 4300 | 3750 | 25000 | | | | | |
| 5,726 | 113 | 244 | 138 | 297 | 4300 | 3750 | 25000 | | | | | |
| 5,154 | 126 | 272 | 153 | 330 | 4300 | 3750 | 21000 | | | | | |
| 4,652 | 140 | 301 | 170 | 365 | 4300 | 3750 | 21000 | | | | | |
| 4,207 | 154 | 333 | 188 | 404 | 4300 | 3750 | 21000 | | | | | |
| 3,723 | 175 | 376 | 212 | 457 | 4300 | 3750 | 21000 | | | | | |



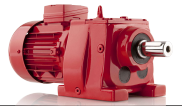
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|-----------------------------|------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | 4300 Nm | 3,360 | 193 | 417 | | | | | | | |
| 3,039 | 214 | | 461 | 260 | 559 | 4300 | 3750 | 21000 | 302 | 203 | | |
| 2,752 | 236 | | 509 | 287 | 618 | 4300 | 3750 | 19000 | 303 | 225 | | |
| 2,495 | 260 | | 561 | 316 | 681 | 4300 | 3750 | 19000 | | | | |
| 2,263 | 287 | | 619 | 349 | 751 | 4300 | 3750 | 19000 | | | | |
| 8000 Nm | 32309 | 0,04 | 0,04 | 0,05 | 0,05 | 8000 | 1200 | 52000 | İRA İRF İRAF | 123 İR 73 | 331 332 333 | 338 340 368 |
| | 28749 | 0,04 | 0,05 | 0,05 | 0,06 | 8000 | 1200 | 52000 | | | | |
| | 25807 | 0,05 | 0,05 | 0,06 | 0,07 | 8000 | 1200 | 52000 | | | | |
| | 23337 | 0,06 | 0,06 | 0,07 | 0,07 | 8000 | 1200 | 52000 | | | | |
| | 18918 | 0,07 | 0,07 | 0,08 | 0,09 | 8000 | 1200 | 52000 | | | | |
| | 17260 | 0,07 | 0,08 | 0,09 | 0,10 | 8000 | 1200 | 52000 | | | | |
| | 15494 | 0,08 | 0,09 | 0,10 | 0,11 | 8000 | 1200 | 52000 | | | | |
| | 13395 | 0,10 | 0,10 | 0,12 | 0,13 | 8000 | 1200 | 52000 | | | | |
| | 12113 | 0,11 | 0,12 | 0,13 | 0,14 | 8000 | 1200 | 52000 | | | | |
| | 11190 | 0,11 | 0,13 | 0,14 | 0,15 | 8000 | 1200 | 52000 | | | | |
| | 10209 | 0,13 | 0,14 | 0,15 | 0,17 | 8000 | 1200 | 52000 | | | | |
| | 9165 | 0,14 | 0,15 | 0,17 | 0,19 | 8000 | 1200 | 52000 | | | | |
| | 8288 | 0,15 | 0,17 | 0,19 | 0,21 | 8000 | 1200 | 52000 | | | | |
| | 7928 | 0,16 | 0,18 | 0,20 | 0,21 | 8000 | 1200 | 52000 | | | | |
| | 6426 | 0,20 | 0,22 | 0,24 | 0,26 | 8000 | 1200 | 52000 | | | | |
| | 5863 | 0,22 | 0,24 | 0,27 | 0,29 | 8000 | 1200 | 52000 | | | | |
| | 5263 | 0,24 | 0,27 | 0,30 | 0,32 | 8000 | 1200 | 52000 | | | | |
| | 4759 | 0,27 | 0,29 | 0,33 | 0,36 | 8000 | 1200 | 52000 | | | | |
| | 4059 | 0,31 | 0,34 | 0,38 | 0,42 | 8000 | 1200 | 52000 | | | | |
| | 3671 | 0,34 | 0,38 | 0,42 | 0,46 | 8000 | 1200 | 52000 | | | | |
| | 3509 | 0,36 | 0,40 | 0,44 | 0,48 | 8000 | 1200 | 52000 | | | | |
| | 3173 | 0,40 | 0,44 | 0,48 | 0,54 | 8000 | 1200 | 52000 | | | | |
| | 2829 | 0,45 | 0,49 | 0,54 | 0,60 | 8000 | 1200 | 52000 | | | | |
| | 2517 | 0,50 | 0,56 | 0,61 | 0,68 | 8000 | 1200 | 52000 | | | | |
| | 2260 | 0,56 | 0,62 | 0,68 | 0,75 | 8000 | 1200 | 52000 | | | | |
| | 2043 | 0,62 | 0,69 | 0,75 | 0,83 | 8000 | 1200 | 52000 | | | | |
| | 1657 | 0,76 | 0,84 | 0,93 | 1,03 | 8000 | 1200 | 52000 | | | | |
| | 1511 | 0,84 | 0,93 | 1,0 | 1,13 | 8000 | 1200 | 52000 | | | | |
| | 1357 | 0,93 | 1,03 | 1,1 | 1,25 | 8000 | 1200 | 52000 | | | | |
| | 1227 | 1,0 | 1,14 | 1,3 | 1,39 | 8000 | 1200 | 52000 | | | | |
| | 1025 | 1,2 | 1,37 | 1,5 | 1,66 | 8000 | 1200 | 52000 | | | | |
| | 902 | 1,4 | 1,55 | 1,7 | 1,88 | 8000 | 1200 | 52000 | | | | |
| 883 | 1,4 | 1,59 | 1,7 | 1,92 | 8000 | 1200 | 52000 | | | | | |
| 799 | 1,6 | 1,75 | 1,9 | 2,13 | 8000 | 1200 | 52000 | | | | | |
| 647 | 1,9 | 2,16 | 2,3 | 2,63 | 8000 | 1200 | 52000 | | | | | |
| 591 | 2,1 | 2,37 | 2,6 | 2,88 | 8000 | 1200 | 52000 | | | | | |
| 530 | 2,3 | 2,64 | 2,9 | 3,21 | 8000 | 1200 | 52000 | | | | | |
| 479 | 2,6 | 2,92 | 3,2 | 3,55 | 8000 | 1200 | 52000 | | | | | |
| 400 | 3,1 | 3,50 | 3,8 | 4,24 | 8000 | 1200 | 52000 | | | | | |
| 352 | 3,5 | 3,97 | 4,3 | 4,82 | 8000 | 1200 | 52000 | | | | | |
| 313 | 4,0 | 4,48 | 4,8 | 5,44 | 8000 | 1200 | 52000 | | | | | |
| 279 | 4,5 | 5,01 | 5,4 | 6,09 | 8000 | 1200 | 52000 | | | | | |
| 251 | 5,0 | 5,58 | 6,0 | 6,77 | 8000 | 1200 | 52000 | | | | | |
| 226 | 5,5 | 6,18 | 6,7 | 7,51 | 8000 | 1200 | 52000 | | | | | |
| 215 | 5,8 | 6,51 | 7,0 | 7,90 | 8000 | 1200 | 52000 | | | | | |
| 209 | 5,9 | 6,69 | 7,1 | 8,13 | 8000 | 3750 | 41000 | | | | | |
| 186 | 6,6 | 7,52 | 8,0 | 9,13 | 8000 | 3750 | 41000 | | | | | |
| 167 | 7,3 | 8,38 | 8,9 | 10 | 8000 | 3750 | 41000 | | | | | |
| 151 | 8,1 | 9,27 | 9,9 | 11 | 8000 | 3750 | 41000 | | | | | |
| 122 | 10,0 | 11 | 12,2 | 14 | 8000 | 3750 | 41000 | | | | | |
| 112 | 11,0 | 13 | 13,3 | 15 | 8000 | 3750 | 41000 | | | | | |
| 100 | 12,2 | 14 | 14,9 | 17 | 8000 | 3750 | 41000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 123 | 319 | 323 |
| | | | | | | | | | | | 320 | 325 |
| | | | | | | | | | | | 321 | 353 |



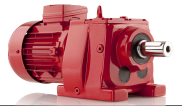
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|--|----|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 8000 Nm | 90,71 | 13,5 | 15 | 16,4 | 19 | 8000 | 3750 | 41000 | İRA İRF İRAF | 123 | | | 319 320 321 | 323 325 353 |
| | 75,77 | 16,2 | 18 | 19,7 | 22 | 8000 | 3750 | 41000 | | | | | | |
| | 66,67 | 18,4 | 21 | 22,4 | 25 | 8000 | 3750 | 41000 | | | | | | |
| | 59,16 | 20,7 | 24 | 25,2 | 29 | 8000 | 3750 | 39700 | | | | | | |
| | 52,85 | 23,2 | 26 | 28,2 | 32 | 8000 | 3750 | 39700 | | | | | | |
| | 47,47 | 25,8 | 29 | 31,4 | 36 | 8000 | 3750 | 39700 | | | | | | |
| | 42,84 | 28,6 | 33 | 34,8 | 40 | 8000 | 3750 | 39700 | | | | | | |
| | 40,70 | 30,2 | 34 | 36,6 | 42 | 8000 | 3750 | 39700 | | | | | | |
| | 36,11 | 34,0 | 39 | 41,3 | 47 | 8000 | 3750 | 39700 | | | | | | |
| | 32,26 | 38,0 | 43 | 46,2 | 53 | 8000 | 3750 | 39700 | | | | | | |
| | 28,98 | 42,3 | 48 | 51,4 | 59 | 8000 | 3750 | 39700 | | | | | | |
| | 26,15 | 46,9 | 54 | 57,0 | 65 | 8000 | 3750 | 39700 | | | | | | |
| | 23,69 | 51,8 | 59 | 62,9 | 72 | 8000 | 3750 | 39700 | | | | | | |
| | 21,52 | 57,0 | 65 | 69,2 | 79 | 8000 | 3750 | 39700 | | | | | | |
| | 19,60 | 62,6 | 71 | 76,0 | 87 | 8000 | 3750 | 39700 | | | | | | |
| | 17,89 | 68,6 | 78 | 83,3 | 95 | 8000 | 3750 | 39700 | | | | | | |
| | 26,28 | 46,0 | 53 | 55,8 | 65 | 8000 | 3750 | 45000 | | | | | | |
| | 23,77 | 50,9 | 59 | 61,8 | 72 | 8000 | 3750 | 45000 | | | | | | |
| | 19,85 | 60,9 | 71 | 73,9 | 86 | 8000 | 3750 | 45000 | | | | | | |
| | 17,47 | 69,2 | 80 | 84,0 | 97 | 8000 | 3750 | 45000 | | | | | | |
| | 15,50 | 78,0 | 90 | 94,7 | 110 | 8000 | 3750 | 45000 | | | | | | |
| | 13,85 | 87,3 | 101 | 106 | 123 | 8000 | 3750 | 45000 | | | | | | |
| | 12,44 | 97,2 | 113 | 118 | 137 | 8000 | 3750 | 45000 | | | | | | |
| | 11,50 | 105 | 122 | 128 | 148 | 8000 | 3750 | 45000 | | | | | | |
| | 10,20 | 119 | 137 | 144 | 167 | 8000 | 3750 | 45000 | | | | | | |
| | 9,112 | 133 | 154 | 161 | 187 | 8000 | 3750 | 45000 | | | | | | |
| | 8,185 | 148 | 171 | 179 | 208 | 8000 | 3750 | 45000 | | | | | | |
| | 7,724 | 156 | 181 | 190 | 220 | 8000 | 3750 | 45000 | | | | | | |
| | 6,938 | 174 | 202 | 212 | 245 | 8000 | 3750 | 45000 | | | | | | |
| | 6,261 | 193 | 224 | 234 | 272 | 8000 | 3750 | 45000 | | | | | | |
| 5,671 | 213 | 247 | 259 | 300 | 8000 | 3750 | 45000 | | | | | | | |
| 5,153 | 235 | 272 | 285 | 330 | 8000 | 3750 | 45000 | | | | | | | |
| 4,694 | 258 | 298 | 313 | 362 | 8000 | 3750 | 45000 | | | | | | | |
| 4,284 | 282 | 327 | 343 | 397 | 8000 | 3750 | 45000 | | | | | | | |
| 3,917 | 309 | 357 | 375 | 434 | 8000 | 3750 | 45000 | | | | | | | |
| 3,585 | 337 | 391 | 409 | 474 | 8000 | 3750 | 45000 | | | | | | | |
| 3,284 | 368 | 426 | 447 | 518 | 8000 | 3750 | 45000 | | | | | | | |
| 13000 Nm | 537 | 3,8 | 2,61 | 4,6 | 3,17 | 13000 | 1550 | 60000 | İRA İRF İRAF | 143 İR 82 | | | 355 356 357 | 587 601 627 |
| | 443 | 4,6 | 3,16 | 5,6 | 3,84 | 13000 | 1550 | 60000 | | | | | | |
| | 398 | 5,2 | 3,52 | 6,3 | 4,27 | 13000 | 1550 | 60000 | | | | | | |
| | 359 | 5,7 | 3,90 | 7,0 | 4,74 | 13000 | 1550 | 60000 | | | | | | |
| | 331 | 6,2 | 4,23 | 7,5 | 5,14 | 13000 | 1550 | 60000 | | | | | | |
| | 277 | 7,4 | 5,05 | 9,0 | 6,14 | 13000 | 1550 | 60000 | | | | | | |
| | 249 | 8,3 | 5,62 | 10,0 | 6,83 | 13000 | 1550 | 60000 | | | | | | |
| | 225 | 9,1 | 6,22 | 11,1 | 7,56 | 13000 | 1550 | 60000 | | | | | | |
| | 207 | 9,9 | 6,76 | 12,1 | 8,21 | 13000 | 1550 | 60000 | | | | | | |
| | 187 | 11,0 | 7,49 | 13,3 | 9,09 | 13000 | 1550 | 60000 | | | | | | |
| | 157 | 13,1 | 8,92 | 15,9 | 11 | 13000 | 1550 | 60000 | | | | | | |
| | 24943 | 0,08 | 0,06 | 0,10 | 0,07 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | | | 349 350 351 | 513 527 553 |
| | 21564 | 0,10 | 0,06 | 0,12 | 0,08 | 13000 | 1200 | 60000 | | | | | | |
| | 19545 | 0,11 | 0,07 | 0,13 | 0,09 | 13000 | 1200 | 60000 | | | | | | |
| | 17730 | 0,12 | 0,08 | 0,14 | 0,10 | 13000 | 1200 | 60000 | | | | | | |
| | 15134 | 0,14 | 0,09 | 0,17 | 0,11 | 13000 | 1200 | 60000 | | | | | | |
| | 13372 | 0,16 | 0,10 | 0,19 | 0,13 | 13000 | 1200 | 60000 | | | | | | |
| | 12131 | 0,17 | 0,12 | 0,21 | 0,14 | 13000 | 1200 | 60000 | | | | | | |
| | 10788 | 0,19 | 0,13 | 0,23 | 0,16 | 13000 | 1200 | 60000 | | | | | | |
| | 9446 | 0,22 | 0,15 | 0,27 | 0,18 | 13000 | 1200 | 60000 | | | | | | |



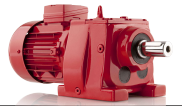
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|-----------|--|-------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 13000 Nm | 8427 | 0,25 | 0,17 | 0,30 | 0,20 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | | | 349 350 351 | 513 527 553 |
| | 7474 | 0,28 | 0,19 | 0,34 | 0,23 | 13000 | 1200 | 60000 | | | | | | |
| | 6732 | 0,31 | 0,21 | 0,38 | 0,25 | 13000 | 1200 | 60000 | | | | | | |
| | 5907 | 0,35 | 0,24 | 0,43 | 0,29 | 13000 | 1200 | 60000 | | | | | | |
| | 5425 | 0,38 | 0,26 | 0,47 | 0,31 | 13000 | 1200 | 60000 | | | | | | |
| | 4839 | 0,43 | 0,29 | 0,52 | 0,35 | 13000 | 1200 | 60000 | | | | | | |
| | 4347 | 0,48 | 0,32 | 0,58 | 0,39 | 13000 | 1200 | 60000 | | | | | | |
| | 3814 | 0,55 | 0,37 | 0,66 | 0,45 | 13000 | 1200 | 60000 | | | | | | |
| | 3404 | 0,61 | 0,41 | 0,74 | 0,50 | 13000 | 1200 | 60000 | | | | | | |
| | 3026 | 0,69 | 0,46 | 0,84 | 0,56 | 13000 | 1200 | 60000 | | | | | | |
| | 2717 | 0,77 | 0,52 | 0,93 | 0,63 | 13000 | 1200 | 60000 | | | | | | |
| | 2184 | 0,94 | 0,64 | 1,1 | 0,78 | 13000 | 1200 | 60000 | | | | | | |
| | 1979 | 1,0 | 0,71 | 1,3 | 0,86 | 13000 | 1200 | 60000 | | | | | | |
| | 1759 | 1,2 | 0,80 | 1,4 | 0,97 | 13000 | 1200 | 60000 | | | | | | |
| | 1596 | 1,3 | 0,88 | 1,6 | 1,07 | 13000 | 1200 | 60000 | | | | | | |
| | 1365 | 1,5 | 1,03 | 1,8 | 1,25 | 13000 | 1200 | 60000 | | | | | | |
| | 1110 | 1,9 | 1,26 | 2,2 | 1,53 | 13000 | 1200 | 60000 | | | | | | |
| | 990 | 2,1 | 1,41 | 2,5 | 1,72 | 13000 | 1200 | 60000 | | | | | | |
| | 889 | 2,3 | 1,57 | 2,8 | 1,91 | 13000 | 1200 | 60000 | | | | | | |
| | 780 | 2,6 | 1,79 | 3,2 | 2,18 | 13000 | 1200 | 60000 | | | | | | |
| | 696 | 3,0 | 2,01 | 3,6 | 2,44 | 13000 | 1200 | 60000 | | | | | | |
| | 595 | 3,5 | 2,35 | 4,2 | 2,86 | 13000 | 1200 | 60000 | | | | | | |
| | 546 | 3,7 | 2,57 | 4,5 | 3,12 | 13000 | 1200 | 60000 | | | | | | |
| | 488 | 4,2 | 2,87 | 5,0 | 3,49 | 13000 | 1200 | 60000 | | | | | | |
| | 438 | 4,6 | 3,20 | 5,6 | 3,88 | 13000 | 1200 | 60000 | | | | | | |
| | 384 | 5,3 | 3,64 | 6,4 | 4,42 | 13000 | 1200 | 60000 | | | | | | |
| | 345 | 5,9 | 4,06 | 7,1 | 4,93 | 13000 | 1200 | 60000 | | | | | | |
| | 308 | 6,6 | 4,55 | 8,0 | 5,53 | 13000 | 1200 | 60000 | | | | | | |
| | 276 | 7,3 | 5,07 | 8,9 | 6,16 | 13000 | 1200 | 60000 | | | | | | |
| | 263 | 7,7 | 5,32 | 9,3 | 6,47 | 13000 | 1200 | 60000 | | | | | | |
| | 236 | 8,6 | 5,93 | 10,4 | 7,20 | 13000 | 1200 | 60000 | | | | | | |
| | 213 | 9,5 | 6,58 | 11,6 | 7,99 | 13000 | 1200 | 60000 | | | | | | |
| | 192 | 10,5 | 7,27 | 12,8 | 8,83 | 13000 | 1200 | 60000 | | | | | | |
| | 175 | 11,6 | 8,02 | 14,1 | 9,73 | 13000 | 1200 | 60000 | | | | | | |
| | 161 | 12,3 | 8,67 | 15,0 | 11 | 13000 | 3750 | 60000 | | | | | | |
| | 146 | 13,6 | 9,56 | 16,5 | 12 | 13000 | 3750 | 60000 | | | | | | |
| | 133 | 15,0 | 11 | 18,2 | 13 | 13000 | 3750 | 60000 | | | | | | |
| | 103 | 19,3 | 14 | 23,4 | 16 | 13000 | 3750 | 60000 | | | | | | |
| | 92,24 | 21,6 | 15 | 26,3 | 18 | 13000 | 3750 | 60000 | | | | | | |
| | 82,86 | 24,1 | 17 | 29,2 | 21 | 13000 | 3750 | 60000 | | | | | | |
| | 72,71 | 27,4 | 19 | 33,3 | 23 | 13000 | 3750 | 60000 | | | | | | |
| | 64,89 | 30,7 | 22 | 37,3 | 26 | 13000 | 3750 | 60000 | | | | | | |
| | 58,24 | 34,2 | 24 | 41,6 | 29 | 13000 | 3750 | 60000 | | | | | | |
| | 55,48 | 35,9 | 25 | 43,6 | 31 | 13000 | 3750 | 60000 | | | | | | |
| | 49,79 | 40,1 | 28 | 48,6 | 34 | 13000 | 3750 | 60000 | | | | | | |
| 44,88 | 44,4 | 31 | 53,9 | 38 | 13000 | 3750 | 60000 | | | | | | | |
| 40,61 | 49,1 | 34 | 59,6 | 42 | 13000 | 3750 | 60000 | | | | | | | |
| 36,86 | 54,1 | 38 | 65,7 | 46 | 13000 | 3750 | 60000 | | | | | | | |
| 33,53 | 59,5 | 42 | 72,2 | 51 | 13000 | 3750 | 60000 | | | | | | | |
| 27,90 | 71,5 | 50 | 86,8 | 61 | 13000 | 3750 | 60000 | | | | | | | |
| 23,32 | 85,5 | 60 | 104 | 73 | 13000 | 3750 | 60000 | | | | | | | |
| 20,02 | 99,6 | 70 | 121 | 85 | 13000 | 3750 | 60000 | | | | | | | |
| 20,02 | 98,1 | 70 | 119 | 85 | 13000 | 3750 | 60000 | | | | | | | |
| 18,16 | 108 | 77 | 131 | 94 | 13000 | 3750 | 60000 | | | | | | | |
| 16,20 | 121 | 86 | 147 | 105 | 13000 | 3750 | 60000 | | | | | | | |
| 14,56 | 135 | 96 | 164 | 117 | 13000 | 3750 | 60000 | | | | | | | |
| 12,77 | 154 | 110 | 187 | 133 | 13000 | 3750 | 60000 | | | | | | | |
| | | | | | | | | İRA İRF İRAF | 143 | | | 337 338 339 | 526 540 566 | |
| | | | | | | | | | İRA İRF İRAF | 142 | | | 337 338 339 | 476 490 516 |



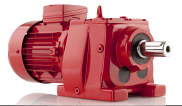
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|---|------------------------------------|---|---|--|---|--------------------|------------|-------------------|----------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1400rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1700rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 13000 Nm | 11,40 | 172 | 123 | 209 | 149 | 13000 | 3750 | 60000 | İRA İRF İRAF | 142 | 337 338 339 | 476 490 516 |
| | 10,23 | 192 | 137 | 233 | 166 | 13000 | 3750 | 60000 | | | | |
| | 9,222 | 213 | 152 | 259 | 184 | 13000 | 3750 | 60000 | | | | |
| | 8,344 | 235 | 168 | 286 | 204 | 13000 | 3750 | 60000 | | | | |
| | 7,573 | 259 | 185 | 315 | 224 | 13000 | 3750 | 60000 | | | | |
| | 6,890 | 285 | 203 | 346 | 247 | 13000 | 3750 | 60000 | | | | |
| | 5,733 | 343 | 244 | 416 | 297 | 13000 | 3750 | 60000 | | | | |
| | 4,792 | 410 | 292 | 498 | 355 | 13000 | 3750 | 60000 | | | | |
| 18000 Nm | 7067 | 0,40 | 0,20 | 0,49 | 0,24 | 18000 | 3750 | 110000 | İRA İRF İRAF | 153 İR 103 | 379 380 381 | 1170 1220 1240 |
| | 6223 | 0,46 | 0,22 | 0,56 | 0,27 | 18000 | 3750 | 110000 | | | | |
| | 5577 | 0,51 | 0,25 | 0,62 | 0,30 | 18000 | 3750 | 110000 | | | | |
| | 5035 | 0,57 | 0,28 | 0,69 | 0,34 | 18000 | 3750 | 110000 | | | | |
| | 4570 | 0,62 | 0,31 | 0,76 | 0,37 | 18000 | 3750 | 110000 | | | | |
| | 3586 | 0,79 | 0,39 | 0,96 | 0,47 | 18000 | 3750 | 110000 | | | | |
| | 3205 | 0,89 | 0,44 | 1,1 | 0,53 | 18000 | 3750 | 110000 | | | | |
| | 2588 | 1,1 | 0,54 | 1,3 | 0,66 | 18000 | 3750 | 110000 | | | | |
| | 27213 | 0,11 | 0,05 | 0,13 | 0,06 | 18000 | 2500 | 110000 | | | | |
| | 23722 | 0,12 | 0,06 | 0,15 | 0,07 | 18000 | 2500 | 110000 | | | | |
| | 19875 | 0,15 | 0,07 | 0,18 | 0,09 | 18000 | 2500 | 110000 | | | | |
| | 17651 | 0,16 | 0,08 | 0,20 | 0,10 | 18000 | 2500 | 110000 | | | | |
| | 16020 | 0,18 | 0,09 | 0,22 | 0,11 | 18000 | 2500 | 110000 | | | | |
| | 14354 | 0,20 | 0,10 | 0,24 | 0,12 | 18000 | 2500 | 110000 | | | | |
| | 13011 | 0,22 | 0,11 | 0,27 | 0,13 | 18000 | 2500 | 110000 | | | | |
| | 11306 | 0,26 | 0,12 | 0,31 | 0,15 | 18000 | 2500 | 110000 | | | | |
| | 9958 | 0,29 | 0,14 | 0,35 | 0,17 | 18000 | 2500 | 110000 | | | | |
| | 8987 | 0,32 | 0,16 | 0,39 | 0,19 | 18000 | 2500 | 110000 | | | | |
| | 7647 | 0,38 | 0,18 | 0,46 | 0,22 | 18000 | 2500 | 110000 | | | | |
| | 6643 | 0,43 | 0,21 | 0,53 | 0,26 | 18000 | 2500 | 110000 | | | | |
| | 6078 | 0,48 | 0,23 | 0,58 | 0,28 | 18000 | 2500 | 110000 | | | | |
| | 5519 | 0,52 | 0,25 | 0,64 | 0,31 | 18000 | 2500 | 110000 | | | | |
| | 4312 | 0,67 | 0,32 | 0,81 | 0,39 | 18000 | 2500 | 110000 | | | | |
| | 3704 | 0,78 | 0,38 | 0,95 | 0,46 | 18000 | 2500 | 110000 | | | | |
| | 3098 | 0,93 | 0,45 | 1,1 | 0,55 | 18000 | 2500 | 110000 | | | | |
| | 2596 | 1,1 | 0,54 | 1,3 | 0,65 | 18000 | 2500 | 110000 | | | | |
| | 2288 | 1,2 | 0,61 | 1,5 | 0,74 | 18000 | 2500 | 110000 | | | | |
| | 2033 | 1,4 | 0,69 | 1,7 | 0,84 | 18000 | 2500 | 110000 | | | | |
| | 1819 | 1,6 | 0,77 | 1,9 | 0,93 | 18000 | 2500 | 110000 | | | | |
| | 1637 | 1,7 | 0,86 | 2,1 | 1,04 | 18000 | 2500 | 110000 | | | | |
| | 1371 | 2,1 | 1,02 | 2,5 | 1,24 | 18000 | 2500 | 110000 | | | | |
| | 1240 | 2,3 | 1,13 | 2,8 | 1,37 | 18000 | 2500 | 110000 | | | | |
| | 1024 | 2,8 | 1,37 | 3,4 | 1,66 | 18000 | 2500 | 110000 | | | | |
| | 825 | 3,4 | 1,70 | 4,2 | 2,06 | 18000 | 2500 | 110000 | | | | |
| | 784 | 3,6 | 1,79 | 4,3 | 2,17 | 18000 | 2500 | 110000 | | | | |
| | 695 | 4,0 | 2,01 | 4,9 | 2,44 | 18000 | 2500 | 110000 | | | | |
| | 612 | 4,6 | 2,29 | 5,6 | 2,78 | 18000 | 2500 | 110000 | | | | |
| | 549 | 5,1 | 2,55 | 6,2 | 3,10 | 18000 | 2500 | 110000 | | | | |
| | 495 | 5,7 | 2,83 | 6,9 | 3,43 | 18000 | 2500 | 110000 | | | | |
| | 432 | 6,5 | 3,24 | 7,9 | 3,94 | 18000 | 2500 | 110000 | | | | |
| 362 | 7,7 | 3,87 | 9,4 | 4,70 | 18000 | 2500 | 110000 | | | | | |
| 321 | 8,7 | 4,36 | 10,6 | 5,29 | 18000 | 2500 | 110000 | | | | | |
| 292 | 9,6 | 4,80 | 11,7 | 5,83 | 18000 | 2500 | 110000 | | | | | |
| 264 | 10,6 | 5,30 | 12,9 | 6,43 | 18000 | 2500 | 110000 | | | | | |
| 230 | 12,2 | 6,09 | 14,8 | 7,40 | 18000 | 2500 | 110000 | | | | | |
| 222 | 12,4 | 6,31 | 15,1 | 7,66 | 18000 | 5250 | 110000 | | | | | |
| 202 | 13,7 | 6,94 | 16,6 | 8,43 | 18000 | 5250 | 110000 | | | | | |
| 179 | 15,4 | 7,83 | 18,8 | 9,51 | 18000 | 5250 | 110000 | | | | | |
| 157 | 17,5 | 8,89 | 21,3 | 11 | 18000 | 5250 | 110000 | | | | | |



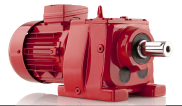
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i Ratio <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M ₂ Output Torque <i>Par de salida</i> [Nm] | F _{Q1} Over Loads <i>Sobrecargas</i> [N] | F _{Q10} Over Loads <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | |
|--|--|--|---|--|---|---|--|---|---------------------|--------------------|-----|----|-------------------|----------------------|
| | | P ₁ Power <i>Potencia</i> [kW] | n ₂ Output Speeds <i>Velocidad de salida</i> [r.p.m] (n ₁ =1400rpm) | P ₁ Power <i>Potencia</i> [kW] | n ₂ Output Speeds <i>Velocidad de salida</i> [r.p.m] (n ₁ =1700rpm) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 18000 Nm | 141 | 19,6 | 9,92 | 23,8 | 12 | 18000 | 5250 | 110000 | îRA îRF îRAF | 153 | | | 361 362 363 | 1006 1056 1076 |
| | 127 | 21,7 | 11 | 26,3 | 13 | 18000 | 5250 | 110000 | | | | | | |
| | 111 | 24,9 | 13 | 30,2 | 15 | 18000 | 5250 | 110000 | | | | | | |
| | 93,05 | 29,7 | 15 | 36,0 | 18 | 18000 | 5250 | 110000 | | | | | | |
| | 82,63 | 33,4 | 17 | 40,6 | 21 | 18000 | 5250 | 110000 | | | | | | |
| | 75,00 | 36,8 | 19 | 44,7 | 23 | 18000 | 5250 | 110000 | | | | | | |
| | 67,98 | 40,6 | 21 | 49,3 | 25 | 18000 | 5250 | 110000 | | | | | | |
| | 59,07 | 46,7 | 24 | 56,8 | 29 | 18000 | 5250 | 110000 | | | | | | |
| | 52,03 | 53,1 | 27 | 64,4 | 33 | 18000 | 5250 | 110000 | | | | | | |
| | 44,27 | 62,4 | 32 | 75,7 | 38 | 18000 | 5250 | 110000 | | | | | | |
| | 38,46 | 71,8 | 36 | 87,2 | 44 | 18000 | 5250 | 110000 | | | | | | |
| | 35,19 | 78,5 | 40 | 95,3 | 48 | 18000 | 5250 | 110000 | | | | | | |
| | 27,50 | 100 | 51 | 122 | 62 | 18000 | 5250 | 110000 | | | | | | |
| | 23,62 | 117 | 59 | 142 | 72 | 18000 | 5250 | 110000 | | | | | | |
| | 28,55 | 96,7 | 49 | 117 | 60 | 18000 | 5250 | 110000 | | | | | | |
| | 25,93 | 106 | 54 | 129 | 66 | 18000 | 5250 | 110000 | | | | | | |
| | 23,57 | 117 | 59 | 142 | 72 | 18000 | 5250 | 110000 | | | | | | |
| | 21,09 | 131 | 66 | 159 | 81 | 18000 | 5250 | 110000 | | | | | | |
| | 19,00 | 145 | 74 | 176 | 89 | 18000 | 5250 | 110000 | | | | | | |
| | 17,22 | 160 | 81 | 195 | 99 | 18000 | 5250 | 110000 | | | | | | |
| | 15,69 | 176 | 89 | 214 | 108 | 18000 | 5250 | 110000 | | | | | | |
| | 14,35 | 192 | 98 | 234 | 118 | 18000 | 5250 | 110000 | | | | | | |
| | 11,22 | 246 | 125 | 299 | 152 | 18000 | 5250 | 110000 | | | | | | |
| | 10,70 | 258 | 131 | 313 | 159 | 18000 | 5250 | 110000 | | | | | | |
| | 9,744 | 283 | 144 | 344 | 174 | 18000 | 5250 | 110000 | | | | | | |
| | 8,915 | 310 | 157 | 376 | 191 | 18000 | 5250 | 110000 | | | | | | |
| | 8,186 | 337 | 171 | 410 | 208 | 18000 | 5250 | 110000 | | | | | | |
| | 6,965 | 396 | 201 | 481 | 244 | 18000 | 5250 | 110000 | | | | | | |
| | 5,983 | 461 | 234 | 560 | 284 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | | îRA îRF îRAF | 152 | | | 361 362 363 |
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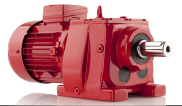
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 85 Nm | 81,37 | 0,10 | 11 | 0,13 | 14 | 85 | 390 | 2100 | İRA İRF İRAF | 43 | 175 176 177 | 10 11 12 |
| | 70,05 | 0,12 | 13 | 0,15 | 16 | 85 | 390 | 2100 | | | | |
| | 60,90 | 0,14 | 15 | 0,17 | 18 | 85 | 390 | 2100 | | | | |
| | 53,33 | 0,16 | 17 | 0,19 | 21 | 85 | 390 | 2100 | | | | |
| | 46,98 | 0,18 | 19 | 0,22 | 23 | 85 | 390 | 2100 | | | | |
| | 41,85 | 0,20 | 22 | 0,24 | 26 | 85 | 390 | 2100 | | | | |
| | 36,38 | 0,23 | 25 | 0,28 | 30 | 85 | 390 | 2100 | | | | |
| | 31,86 | 0,26 | 28 | 0,32 | 35 | 85 | 390 | 2100 | | | | |
| | 28,06 | 0,30 | 32 | 0,37 | 39 | 85 | 390 | 2100 | | | | |
| | 26,19 | 0,32 | 34 | 0,39 | 42 | 85 | 390 | 2100 | | | | |
| | 24,83 | 0,34 | 36 | 0,41 | 44 | 85 | 390 | 2000 | | | | |
| | 22,62 | 0,37 | 40 | 0,45 | 49 | 85 | 390 | 2000 | | | | |
| | 21,11 | 0,40 | 43 | 0,49 | 52 | 85 | 390 | 2000 | | | | |
| | 20,01 | 0,42 | 45 | 0,51 | 55 | 85 | 390 | 2000 | | | | |
| | 18,59 | 0,45 | 48 | 0,55 | 59 | 85 | 390 | 2000 | | | | |
| | 17,76 | 0,47 | 51 | 0,58 | 62 | 85 | 390 | 1850 | | | | |
| | 16,45 | 0,51 | 55 | 0,62 | 67 | 85 | 390 | 1850 | | | | |
| | 15,81 | 0,53 | 57 | 0,65 | 70 | 85 | 390 | 1850 | | | | |
| | 14,60 | 0,57 | 62 | 0,70 | 75 | 85 | 390 | 1850 | | | | |
| | 14,09 | 0,60 | 64 | 0,73 | 78 | 85 | 390 | 1800 | | | | |
| | 13,00 | 0,65 | 69 | 0,79 | 85 | 85 | 390 | 1800 | | | | |
| | 11,58 | 0,72 | 78 | 0,88 | 95 | 85 | 390 | 1800 | | | | |
| | 11,24 | 0,73 | 80 | 0,90 | 98 | 85 | 390 | 800 | | | | |
| | 9,845 | 0,84 | 91 | 1,0 | 112 | 85 | 390 | 800 | | | | |
| | 8,672 | 0,95 | 104 | 1,2 | 127 | 85 | 390 | 800 | | | | |
| | 7,673 | 1,1 | 117 | 1,3 | 143 | 85 | 390 | 750 | | | | |
| | 6,872 | 1,2 | 131 | 1,5 | 160 | 85 | 390 | 750 | | | | |
| | 6,080 | 1,4 | 148 | 1,7 | 181 | 85 | 390 | 750 | | | | |
| | 5,538 | 1,5 | 163 | 1,8 | 199 | 85 | 390 | 750 | | | | |
| | 5,398 | 1,5 | 167 | 1,9 | 204 | 85 | 390 | 750 | | | | |
| 4,900 | 1,7 | 184 | 2,1 | 224 | 85 | 390 | 750 | | | | | |
| 4,803 | 1,7 | 187 | 2,1 | 229 | 85 | 390 | 750 | | | | | |
| 4,350 | 1,9 | 207 | 2,3 | 253 | 85 | 390 | 750 | | | | | |
| 4,280 | 1,9 | 210 | 2,4 | 257 | 85 | 390 | 750 | | | | | |
| 3,870 | 2,1 | 233 | 2,6 | 284 | 85 | 390 | 750 | | | | | |
| 3,449 | 2,4 | 261 | 2,9 | 319 | 85 | 390 | 750 | | | | | |
| 150 Nm | 8598 | 0,00 | 0,10 | 0,00 | 0,13 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 43 | 187 188 189 | 26 28 29 |
| | 7402 | 0,00 | 0,12 | 0,00 | 0,15 | 150 | 390 | 4250 | | | | |
| | 6435 | 0,00 | 0,14 | 0,00 | 0,17 | 150 | 390 | 4250 | | | | |
| | 5419 | 0,00 | 0,17 | 0,00 | 0,20 | 150 | 390 | 4250 | | | | |
| | 4699 | 0,00 | 0,19 | 0,00 | 0,23 | 150 | 390 | 4250 | | | | |
| | 4117 | 0,00 | 0,22 | 0,00 | 0,27 | 150 | 390 | 4250 | | | | |
| | 3338 | 0,00 | 0,27 | 0,01 | 0,33 | 150 | 390 | 4250 | | | | |
| | 2948 | 0,01 | 0,31 | 0,01 | 0,37 | 150 | 390 | 4250 | | | | |
| | 2679 | 0,01 | 0,34 | 0,01 | 0,41 | 150 | 390 | 4250 | | | | |
| | 2346 | 0,01 | 0,38 | 0,01 | 0,47 | 150 | 390 | 4250 | | | | |
| | 2085 | 0,01 | 0,43 | 0,01 | 0,53 | 150 | 390 | 4250 | | | | |
| | 1863 | 0,01 | 0,48 | 0,01 | 0,59 | 150 | 390 | 4250 | | | | |
| | 1641 | 0,01 | 0,55 | 0,01 | 0,67 | 150 | 390 | 4250 | | | | |
| | 1462 | 0,01 | 0,62 | 0,01 | 0,75 | 150 | 390 | 4250 | | | | |
| | 1271 | 0,01 | 0,71 | 0,01 | 0,87 | 150 | 390 | 4250 | | | | |
| | 1204 | 0,01 | 0,75 | 0,02 | 0,91 | 150 | 390 | 4250 | | | | |
| | 1046 | 0,01 | 0,86 | 0,02 | 1,05 | 150 | 390 | 4250 | | | | |
| | 917 | 0,02 | 0,98 | 0,02 | 1,20 | 150 | 390 | 4250 | | | | |
| | 809 | 0,02 | 1,11 | 0,02 | 1,36 | 150 | 390 | 4250 | | | | |
| | | | | | | | | | | | | |



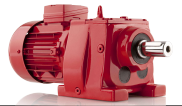
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | |
|--|-------------------------------------|--|--|--|---|---|--|---|---------------------|----------|-----|-----|-----|----|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=900rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1100rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 150 Nm | 709 | 0,02 | 1,27 | 0,03 | 1,55 | 150 | 390 | 4250 | İRA İRF İRAF | 52 İR 43 | 187 | 25 | | |
| | 630 | 0,02 | 1,43 | 0,03 | 1,75 | 150 | 390 | 4250 | | | 188 | 27 | | |
| | 555 | 0,03 | 1,62 | 0,03 | 1,98 | 150 | 390 | 4250 | | | 189 | 28 | | |
| | 496 | 0,03 | 1,81 | 0,04 | 2,22 | 150 | 390 | 4250 | | | | | | |
| | 1188 | 0,01 | 0,76 | 0,02 | 0,93 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 42 | 187 | 25 | | |
| | 1040 | 0,01 | 0,87 | 0,02 | 1,06 | 150 | 390 | 4250 | | | | | 188 | 27 |
| | 916 | 0,02 | 0,98 | 0,02 | 1,20 | 150 | 390 | 4250 | | | | | 189 | 28 |
| | 878 | 0,02 | 1,03 | 0,02 | 1,25 | 150 | 390 | 4250 | | | | | | |
| | 772 | 0,02 | 1,17 | 0,02 | 1,42 | 150 | 390 | 4250 | | | | | | |
| | 669 | 0,02 | 1,35 | 0,03 | 1,64 | 150 | 390 | 4250 | | | | | | |
| | 586 | 0,03 | 1,54 | 0,03 | 1,88 | 150 | 390 | 4250 | | | | | | |
| | 519 | 0,03 | 1,73 | 0,04 | 2,12 | 150 | 390 | 4250 | | | | | | |
| | 421 | 0,04 | 2,14 | 0,04 | 2,61 | 150 | 390 | 4250 | | | | | | |
| | 377 | 0,04 | 2,39 | 0,05 | 2,92 | 150 | 390 | 4250 | | | | | | |
| | 333 | 0,05 | 2,70 | 0,06 | 3,30 | 150 | 390 | 4250 | | | | | | |
| | 294 | 0,05 | 3,06 | 0,06 | 3,74 | 150 | 390 | 4250 | | | | | | |
| | 267 | 0,06 | 3,37 | 0,07 | 4,12 | 150 | 390 | 4250 | | | | | | |
| | 238 | 0,06 | 3,78 | 0,08 | 4,62 | 150 | 390 | 4250 | | | | | | |
| | 193 | 0,08 | 4,66 | 0,10 | 5,70 | 150 | 390 | 4250 | İRA İRF İRAF | 52 İR 42 | 187 | 24 | | |
| | 169 | 0,09 | 5,33 | 0,11 | 6,51 | 150 | 390 | 4250 | | | | | 188 | 26 |
| | 148 | 0,10 | 6,08 | 0,12 | 7,43 | 150 | 390 | 4250 | | | | | 189 | 27 |
| | 131 | 0,11 | 6,87 | 0,14 | 8,40 | 150 | 390 | 4250 | | | | | | |
| | 116 | 0,13 | 7,76 | 0,16 | 9,48 | 150 | 390 | 4250 | | | | | | |
| | 106 | 0,14 | 8,52 | 0,17 | 10 | 150 | 475 | 4250 | | | | | | |
| | 88,98 | 0,17 | 10 | 0,20 | 12 | 150 | 475 | 4250 | İRA İRF İRAF | 53 | 181 | 16 | | |
| | 77,17 | 0,19 | 12 | 0,23 | 14 | 150 | 475 | 4250 | | | | | 182 | 18 |
| | 67,60 | 0,22 | 13 | 0,27 | 16 | 150 | 475 | 4250 | | | | | 183 | 19 |
| | 54,82 | 0,27 | 16 | 0,33 | 20 | 150 | 475 | 4250 | | | | | | |
| | 48,41 | 0,31 | 19 | 0,37 | 23 | 150 | 475 | 4250 | | | | | | |
| | 43,99 | 0,34 | 20 | 0,41 | 25 | 150 | 475 | 4250 | | | | | | |
| | 39,10 | 0,38 | 23 | 0,46 | 28 | 150 | 475 | 4250 | | | | | | |
| | 34,93 | 0,42 | 26 | 0,52 | 31 | 150 | 475 | 4250 | | | | | | |
| | 31,34 | 0,47 | 29 | 0,58 | 35 | 150 | 475 | 4250 | | | | | | |
| | 28,21 | 0,52 | 32 | 0,64 | 39 | 150 | 475 | 4250 | | | | | | |
| | 25,46 | 0,58 | 35 | 0,71 | 43 | 150 | 475 | 4250 | | | | | | |
| | 23,03 | 0,64 | 39 | 0,79 | 48 | 150 | 475 | 4250 | | | | | | |
| | 21,88 | 0,68 | 41 | 0,83 | 50 | 150 | 475 | 4250 | | | | | | |
| | 19,70 | 0,75 | 46 | 0,92 | 56 | 150 | 475 | 4250 | | | | | | |
| | 17,78 | 0,83 | 51 | 1,0 | 62 | 150 | 475 | 4250 | | | | | | |
| | 16,08 | 0,92 | 56 | 1,1 | 68 | 150 | 475 | 4250 | | | | | | |
| 17,18 | 0,85 | 52 | 1,0 | 64 | 150 | 475 | 3500 | | | | | | | |
| 15,05 | 0,97 | 60 | 1,2 | 73 | 150 | 475 | 3500 | | | | | | | |
| 13,29 | 1,1 | 68 | 1,3 | 83 | 150 | 475 | 3500 | | | | | | | |
| 11,81 | 1,2 | 76 | 1,5 | 93 | 150 | 475 | 3500 | | | | | | | |
| 10,56 | 1,4 | 85 | 1,7 | 104 | 150 | 475 | 3500 | | | | | | | |
| 9,470 | 1,5 | 95 | 1,9 | 116 | 150 | 475 | 3500 | | | | | | | |
| 8,888 | 1,6 | 101 | 2,0 | 124 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | 181 | 15 | | | |
| 7,974 | 1,8 | 113 | 2,2 | 138 | 150 | 475 | 3500 | | | | | 182 | 17 | |
| 7,178 | 2,0 | 125 | 2,5 | 153 | 150 | 475 | 3500 | | | | | 183 | 18 | |
| 6,479 | 2,2 | 139 | 2,7 | 170 | 150 | 475 | 3500 | | | | | | | |
| 5,821 | 2,5 | 155 | 3,1 | 189 | 150 | 475 | 3500 | | | | | | | |
| 5,254 | 2,8 | 171 | 3,4 | 209 | 150 | 475 | 3500 | | | | | | | |
| 5,032 | 2,9 | 179 | 3,5 | 219 | 150 | 475 | 3500 | | | | | | | |
| 4,515 | 3,2 | 199 | 3,9 | 244 | 150 | 475 | 3500 | | | | | | | |
| 4,064 | 3,6 | 221 | 4,4 | 271 | 150 | 475 | 3500 | | | | | | | |



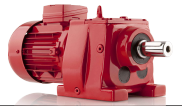
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 150 Nm | 3,668 | 4,0 | 245 | 4,9 | 300 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | 181 182 183 | 15 17 18 |
| | 3,317 | 4,4 | 271 | 5,4 | 332 | 150 | 475 | 3500 | | | | |
| | 3,059 | 4,8 | 294 | 5,8 | 360 | 150 | 475 | 3500 | | | | |
| | 2,906 | 5,0 | 310 | 6,1 | 379 | 150 | 475 | 3500 | | | | |
| | 2,572 | 5,7 | 350 | 6,9 | 428 | 150 | 475 | 3500 | | | | |
| 300 Nm | 128 | 0,23 | 7,03 | 0,28 | 8,60 | 300 | 590 | 7000 | İRA İRF İRAF | 631 | 193 194 195 | 29 34 35 |
| | 119 | 0,25 | 7,54 | 0,30 | 9,21 | 300 | 590 | 7000 | | | | |
| | 96,27 | 0,31 | 9,35 | 0,38 | 11 | 300 | 590 | 7000 | | | | |
| | 87,81 | 0,34 | 10 | 0,41 | 13 | 300 | 590 | 7000 | | | | |
| | 83,37 | 0,35 | 11 | 0,43 | 13 | 300 | 590 | 7000 | | | | |
| | 70,96 | 0,42 | 13 | 0,51 | 16 | 300 | 590 | 7000 | | | | |
| | 61,03 | 0,48 | 15 | 0,59 | 18 | 300 | 590 | 7000 | | | | |
| | 51,65 | 0,57 | 17 | 0,70 | 21 | 300 | 590 | 7000 | | | | |
| | 46,79 | 0,63 | 19 | 0,77 | 24 | 300 | 590 | 7000 | | | | |
| | 42,55 | 0,70 | 21 | 0,85 | 26 | 300 | 590 | 7000 | | | | |
| | 35,74 | 0,83 | 25 | 1,0 | 31 | 300 | 590 | 7000 | | | | |
| | 29,85 | 0,99 | 30 | 1,2 | 37 | 300 | 590 | 7000 | | | | |
| | 25,16 | 1,2 | 36 | 1,4 | 44 | 300 | 590 | 7000 | | | | |
| | 21,50 | 1,4 | 42 | 1,7 | 51 | 300 | 590 | 7000 | | | | |
| | 20,53 | 1,4 | 44 | 1,8 | 54 | 300 | 590 | 7000 | | | | |
| | 18,18 | 1,6 | 50 | 2,0 | 61 | 300 | 590 | 7000 | | | | |
| | 15,59 | 1,9 | 58 | 2,3 | 71 | 300 | 590 | 7000 | | | | |
| | 13,81 | 2,1 | 65 | 2,6 | 80 | 300 | 590 | 7000 | | | | |
| | 16,67 | 1,7 | 54 | 2,1 | 66 | 300 | 590 | 7000 | | | | |
| | 15,13 | 1,9 | 59 | 2,4 | 73 | 300 | 590 | 7000 | | | | |
| | 13,48 | 2,2 | 67 | 2,6 | 82 | 300 | 590 | 7000 | | | | |
| | 12,21 | 2,4 | 74 | 2,9 | 90 | 300 | 590 | 7000 | | | | |
| | 11,10 | 2,6 | 81 | 3,2 | 99 | 300 | 590 | 7000 | | | | |
| | 10,07 | 2,9 | 89 | 3,5 | 109 | 300 | 590 | 7000 | | | | |
| | 9,358 | 3,1 | 96 | 3,8 | 118 | 300 | 590 | 7000 | | | | |
| | 8,510 | 3,4 | 106 | 4,2 | 129 | 300 | 590 | 7000 | | | | |
| | 7,673 | 3,8 | 117 | 4,6 | 143 | 300 | 590 | 7000 | | | | |
| | 7,108 | 4,1 | 127 | 5,0 | 155 | 300 | 590 | 7000 | | | | |
| | 6,480 | 4,5 | 139 | 5,5 | 170 | 300 | 590 | 7000 | | | | |
| | 5,992 | 4,9 | 150 | 5,9 | 184 | 300 | 590 | 7000 | | | | |
| | 5,723 | 5,1 | 157 | 6,2 | 192 | 300 | 590 | 7000 | | | | |
| | 5,325 | 5,5 | 169 | 6,7 | 207 | 300 | 590 | 7000 | | | | |
| 5,060 | 5,8 | 178 | 7,0 | 217 | 300 | 590 | 7000 | | | | | |
| 4,499 | 6,5 | 200 | 7,9 | 244 | 300 | 590 | 7000 | | | | | |
| 3,998 | 7,3 | 225 | 8,9 | 275 | 300 | 590 | 7000 | | | | | |
| 3,711 | 7,9 | 243 | 9,6 | 296 | 300 | 590 | 7000 | | | | | |
| 3,287 | 8,9 | 274 | 10,8 | 335 | 300 | 590 | 7000 | | | | | |
| 2,917 | 10,0 | 309 | 12,2 | 377 | 300 | 590 | 7000 | | | | | |
| 2,592 | 11,2 | 347 | 13,7 | 424 | 300 | 590 | 7000 | | | | | |
| 2,444 | 11,9 | 368 | 14,6 | 450 | 300 | 590 | 7000 | | | | | |
| 410 Nm | 13520 | 0,00 | 0,07 | 0,00 | 0,08 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 224 225 | 44 49 50 |
| | 12617 | 0,00 | 0,07 | 0,00 | 0,09 | 410 | 475 | 7000 | | | | |
| | 11345 | 0,00 | 0,08 | 0,00 | 0,10 | 410 | 475 | 7000 | | | | |
| | 10587 | 0,00 | 0,09 | 0,00 | 0,10 | 410 | 475 | 7000 | | | | |
| | 9873 | 0,00 | 0,09 | 0,01 | 0,11 | 410 | 475 | 7000 | | | | |
| | 9214 | 0,00 | 0,10 | 0,01 | 0,12 | 410 | 475 | 7000 | | | | |
| | 7479 | 0,01 | 0,12 | 0,01 | 0,15 | 410 | 475 | 7000 | | | | |
| | 6508 | 0,01 | 0,14 | 0,01 | 0,17 | 410 | 475 | 7000 | | | | |
| | 6194 | 0,01 | 0,15 | 0,01 | 0,18 | 410 | 475 | 7000 | | | | |
| | 5936 | 0,01 | 0,15 | 0,01 | 0,19 | 410 | 475 | 7000 | | | | |
| | 5780 | 0,01 | 0,16 | 0,01 | 0,19 | 410 | 475 | 7000 | | | | |
| | 5636 | 0,01 | 0,16 | 0,01 | 0,20 | 410 | 475 | 7000 | | | | |



| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 410 Nm | 4814 | 0,01 | 0,19 | 0,01 | 0,23 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 224 225 | 44 49 50 |
| | 4661 | 0,01 | 0,19 | 0,01 | 0,24 | 410 | 475 | 7000 | | | | |
| | 4570 | 0,01 | 0,20 | 0,01 | 0,24 | 410 | 475 | 7000 | | | | |
| | 4251 | 0,01 | 0,21 | 0,01 | 0,26 | 410 | 475 | 7000 | | | | |
| | 4036 | 0,01 | 0,22 | 0,01 | 0,27 | 410 | 475 | 7000 | | | | |
| | 3890 | 0,01 | 0,23 | 0,01 | 0,28 | 410 | 475 | 7000 | | | | |
| | 3436 | 0,01 | 0,26 | 0,02 | 0,32 | 410 | 475 | 7000 | | | | |
| | 2955 | 0,01 | 0,30 | 0,02 | 0,37 | 410 | 475 | 7000 | | | | |
| | 2685 | 0,02 | 0,34 | 0,02 | 0,41 | 410 | 475 | 7000 | | | | |
| | 2500 | 0,02 | 0,36 | 0,02 | 0,44 | 410 | 475 | 7000 | | | | |
| | 2198 | 0,02 | 0,41 | 0,02 | 0,50 | 410 | 475 | 7000 | | | | |
| | 2052 | 0,02 | 0,44 | 0,02 | 0,54 | 410 | 475 | 7000 | | | | |
| | 1797 | 0,02 | 0,50 | 0,03 | 0,61 | 410 | 475 | 7000 | | | | |
| | 1701 | 0,02 | 0,53 | 0,03 | 0,65 | 410 | 475 | 7000 | | | | |
| | 1654 | 0,03 | 0,54 | 0,03 | 0,67 | 410 | 475 | 7000 | | | | |
| | 1587 | 0,03 | 0,57 | 0,03 | 0,69 | 410 | 475 | 7000 | | | | |
| | 1509 | 0,03 | 0,60 | 0,03 | 0,73 | 410 | 475 | 7000 | | | | |
| | 1432 | 0,03 | 0,63 | 0,04 | 0,77 | 410 | 475 | 7000 | | | | |
| | 1280 | 0,03 | 0,70 | 0,04 | 0,86 | 410 | 475 | 7000 | | | | |
| | 1219 | 0,03 | 0,74 | 0,04 | 0,90 | 410 | 475 | 7000 | | | | |
| | 1167 | 0,04 | 0,77 | 0,04 | 0,94 | 410 | 475 | 7000 | | | | |
| | 1108 | 0,04 | 0,81 | 0,05 | 0,99 | 410 | 475 | 7000 | | | | |
| | 1049 | 0,04 | 0,86 | 0,05 | 1,05 | 410 | 475 | 7000 | | | | |
| | 943 | 0,04 | 0,95 | 0,05 | 1,17 | 410 | 475 | 7000 | | | | |
| | 887 | 0,05 | 1,01 | 0,06 | 1,24 | 410 | 475 | 7000 | | | | |
| | 811 | 0,05 | 1,11 | 0,06 | 1,36 | 410 | 475 | 7000 | | | | |
| | 804 | 0,05 | 1,12 | 0,06 | 1,37 | 410 | 475 | 7000 | | | | |
| | 731 | 0,06 | 1,23 | 0,07 | 1,50 | 410 | 475 | 7000 | | | | |
| | 686 | 0,06 | 1,31 | 0,07 | 1,60 | 410 | 475 | 7000 | | | | |
| | 622 | 0,07 | 1,45 | 0,08 | 1,77 | 410 | 475 | 7000 | | | | |
| | 614 | 0,07 | 1,47 | 0,08 | 1,79 | 410 | 475 | 7000 | | | | |
| | 566 | 0,07 | 1,59 | 0,09 | 1,94 | 410 | 475 | 7000 | | | | |
| | 538 | 0,08 | 1,67 | 0,09 | 2,04 | 410 | 475 | 7000 | | | | |
| | 475 | 0,09 | 1,89 | 0,11 | 2,32 | 410 | 475 | 7000 | | | | |
| | 449 | 0,09 | 2,00 | 0,11 | 2,45 | 410 | 475 | 7000 | | | | |
| | 424 | 0,10 | 2,12 | 0,12 | 2,59 | 410 | 475 | 7000 | | | | |
| | 396 | 0,10 | 2,27 | 0,13 | 2,78 | 410 | 475 | 7000 | | | | |
| | 319 | 0,13 | 2,82 | 0,16 | 3,45 | 410 | 475 | 7000 | | | | |
| | 291 | 0,14 | 3,09 | 0,17 | 3,78 | 410 | 475 | 7000 | | | | |
| | 276 | 0,15 | 3,26 | 0,18 | 3,98 | 410 | 475 | 7000 | | | | |
| | 235 | 0,17 | 3,82 | 0,21 | 4,67 | 410 | 475 | 7000 | | | | |
| | 214 | 0,19 | 4,21 | 0,23 | 5,14 | 410 | 475 | 7000 | | | | |
| | 182 | 0,23 | 4,94 | 0,28 | 6,04 | 410 | 475 | 7000 | | | | |
| | 157 | 0,26 | 5,75 | 0,32 | 7,03 | 410 | 475 | 7000 | | | | |
| | 132 | 0,31 | 6,79 | 0,38 | 8,30 | 410 | 475 | 7000 | | | | |
| 128 | 0,32 | 7,03 | 0,39 | 8,60 | 410 | 590 | 7000 | | | | | |
| 119 | 0,34 | 7,54 | 0,41 | 9,21 | 410 | 590 | 7000 | | | | | |
| 96,27 | 0,42 | 9,35 | 0,51 | 11 | 410 | 590 | 7000 | | | | | |
| 87,81 | 0,46 | 10 | 0,56 | 13 | 410 | 590 | 7000 | | | | | |
| 83,37 | 0,48 | 11 | 0,59 | 13 | 410 | 590 | 7000 | | | | | |
| 70,96 | 0,57 | 13 | 0,70 | 16 | 410 | 590 | 7000 | | | | | |
| 61,03 | 0,66 | 15 | 0,81 | 18 | 410 | 590 | 7000 | | | | | |
| 51,65 | 0,78 | 17 | 0,96 | 21 | 410 | 590 | 7000 | | | | | |
| 46,79 | 0,86 | 19 | 1,1 | 24 | 410 | 590 | 7000 | | | | | |
| 42,55 | 0,95 | 21 | 1,2 | 26 | 410 | 590 | 7000 | | | | | |
| 35,74 | 1,1 | 25 | 1,4 | 31 | 410 | 590 | 7000 | | | | | |
| 29,85 | 1,4 | 30 | 1,7 | 37 | 410 | 590 | 7000 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 63 | 211 212 213 | 29 34 35 |

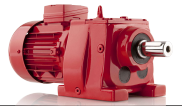


| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|--------------------|-------------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 410 Nm | 25,16 | 1,6 | 36 | 2,0 | 44 | 410 | 590 | 7000 | İRA İRF İRAF | 63 | 211 | 29 | |
| | 21,50 | 1,9 | 42 | 2,3 | 51 | 410 | 590 | 7000 | | | 212 | 34 | |
| | 20,53 | 2,0 | 44 | 2,4 | 54 | 410 | 590 | 7000 | | | 213 | 35 | |
| | 18,18 | 2,2 | 50 | 2,7 | 61 | 410 | 590 | 7000 | İRA İRF İRAF | 62 | 211 212 213 | 24 29 30 | |
| | 15,59 | 2,6 | 58 | 3,2 | 71 | 410 | 590 | 7000 | | | | | |
| | 13,81 | 2,9 | 65 | 3,6 | 80 | 410 | 590 | 7000 | | | | | |
| | 16,67 | 2,4 | 54 | 2,9 | 66 | 410 | 590 | 4500 | | | | | |
| | 15,13 | 2,6 | 59 | 3,2 | 73 | 410 | 590 | 4500 | | | | | |
| | 13,48 | 3,0 | 67 | 3,6 | 82 | 410 | 590 | 4500 | | | | | |
| | 12,21 | 3,3 | 74 | 4,0 | 90 | 410 | 590 | 4500 | | | | | |
| | 11,10 | 3,6 | 81 | 4,4 | 99 | 410 | 590 | 4500 | | | | | |
| | 10,07 | 4,0 | 89 | 4,8 | 109 | 410 | 590 | 4500 | | | | | |
| | 9,358 | 4,3 | 96 | 5,2 | 118 | 410 | 590 | 4500 | | | | | |
| | 8,510 | 4,7 | 106 | 5,7 | 129 | 410 | 590 | 4500 | | | | | |
| | 7,673 | 5,2 | 117 | 6,3 | 143 | 410 | 590 | 4500 | | | | | |
| | 7,108 | 5,6 | 127 | 6,8 | 155 | 410 | 590 | 4500 | | | | | |
| | 6,480 | 6,1 | 139 | 7,5 | 170 | 410 | 590 | 4500 | | | | | |
| | 5,992 | 6,6 | 150 | 8,1 | 184 | 410 | 590 | 4500 | | | | | |
| | 5,723 | 7,0 | 157 | 8,5 | 192 | 410 | 590 | 4500 | | | | | |
| | 5,325 | 7,5 | 169 | 9,1 | 207 | 410 | 590 | 4500 | | | | | |
| | 5,060 | 7,9 | 178 | 9,6 | 217 | 410 | 590 | 4500 | | | | | |
| | 4,499 | 8,9 | 200 | 10,8 | 244 | 410 | 590 | 4500 | | | | | |
| | 3,998 | 10,0 | 225 | 12,2 | 275 | 410 | 590 | 4500 | | | | | |
| | 3,711 | 10,7 | 243 | 13,1 | 296 | 410 | 590 | 4500 | | | | | |
| | 3,287 | 12,1 | 274 | 14,8 | 335 | 410 | 590 | 4500 | | | | | |
| | 2,917 | 13,7 | 309 | 16,7 | 377 | 410 | 590 | 4500 | | | | | |
| | 2,592 | 15,4 | 347 | 18,8 | 424 | 410 | 590 | 4500 | | | | | |
| | 2,444 | 16,3 | 368 | 19,9 | 450 | 410 | 590 | 4500 | | | | | |
| | 600 Nm | 16071 | 0,00 | 0,06 | 0,00 | 0,07 | 600 | 475 | 10100 | İRA İRF İRAF | 731 İR 53 | 241 242 243 | 54 57 60 |
| | | 14258 | 0,00 | 0,06 | 0,01 | 0,08 | 600 | 475 | 10100 | | | | |
| 12326 | | 0,01 | 0,07 | 0,01 | 0,09 | 600 | 475 | 10100 | | | | | |
| 10380 | | 0,01 | 0,09 | 0,01 | 0,11 | 600 | 475 | 10100 | | | | | |
| 9001 | | 0,01 | 0,10 | 0,01 | 0,12 | 600 | 475 | 10100 | | | | | |
| 7782 | | 0,01 | 0,12 | 0,01 | 0,14 | 600 | 475 | 10100 | | | | | |
| 6862 | | 0,01 | 0,13 | 0,01 | 0,16 | 600 | 475 | 10100 | | | | | |
| 6012 | | 0,01 | 0,15 | 0,01 | 0,18 | 600 | 475 | 10100 | | | | | |
| 5301 | | 0,01 | 0,17 | 0,01 | 0,21 | 600 | 475 | 10100 | | | | | |
| 4299 | | 0,01 | 0,21 | 0,02 | 0,26 | 600 | 475 | 10100 | | | | | |
| 3796 | | 0,02 | 0,24 | 0,02 | 0,29 | 600 | 475 | 10100 | | | | | |
| 3450 | | 0,02 | 0,26 | 0,02 | 0,32 | 600 | 475 | 10100 | | | | | |
| 3068 | | 0,02 | 0,29 | 0,02 | 0,36 | 600 | 475 | 10100 | | | | | |
| 2747 | | 0,02 | 0,33 | 0,03 | 0,40 | 600 | 475 | 10100 | | | | | |
| 2443 | | 0,03 | 0,37 | 0,03 | 0,45 | 600 | 475 | 10100 | | | | | |
| 2613 | | 0,02 | 0,34 | 0,03 | 0,42 | 600 | 475 | 10100 | İRA İRF İRAF | 731 İR 52 | 241 242 243 | 54 57 60 | |
| 2318 | | 0,03 | 0,39 | 0,03 | 0,47 | 600 | 475 | 10100 | | | | | |
| 2004 | | 0,03 | 0,45 | 0,04 | 0,55 | 600 | 475 | 10100 | | | | | |
| İRA İRF İRAF | | 1872 | 0,03 | 0,48 | 0,04 | 0,59 | 600 | 475 | 10100 | 721 İR 53 | 241 242 243 | 53 56 59 | |
| | | 1640 | 0,04 | 0,55 | 0,05 | 0,67 | 600 | 475 | 10100 | | | | |
| | | 1446 | 0,04 | 0,62 | 0,05 | 0,76 | 600 | 475 | 10100 | | | | |
| | | 1286 | 0,05 | 0,70 | 0,06 | 0,86 | 600 | 475 | 10100 | | | | |
| | | 1172 | 0,05 | 0,77 | 0,06 | 0,94 | 600 | 475 | 10100 | | | | |
| | | 1035 | 0,06 | 0,87 | 0,07 | 1,06 | 600 | 475 | 10100 | | | | |
| | | 921 | 0,07 | 0,98 | 0,08 | 1,19 | 600 | 475 | 10100 | | | | |
| | | 825 | 0,07 | 1,09 | 0,09 | 1,33 | 600 | 475 | 10100 | | | | |
| | | 743 | 0,08 | 1,21 | 0,10 | 1,48 | 600 | 475 | 10100 | | | | |
| | | 675 | 0,09 | 1,33 | 0,11 | 1,63 | 600 | 475 | 10100 | | | | |

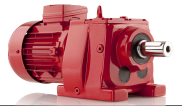


| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | |
|--|-------------------------------------|--|--|--|---|---|--|---|---------------------|-----------|--|----|-------------------|----------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=900rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1100rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 600 Nm | 417 | 0,14 | 2,16 | 0,18 | 2,64 | 600 | 475 | 10100 | İRA İRF İRAF | 721 İR 52 | | | 241 242 243 | 50 53 56 |
| | 365 | 0,16 | 2,47 | 0,20 | 3,01 | 600 | 475 | 10100 | | | | | | |
| | 322 | 0,19 | 2,80 | 0,23 | 3,42 | 600 | 475 | 10100 | | | | | | |
| | 287 | 0,21 | 3,14 | 0,26 | 3,83 | 600 | 475 | 10100 | | | | | | |
| | 256 | 0,23 | 3,52 | 0,29 | 4,30 | 600 | 475 | 10100 | | | | | | |
| | 226 | 0,27 | 3,98 | 0,32 | 4,87 | 600 | 475 | 10100 | | | | | | |
| | 201 | 0,30 | 4,48 | 0,37 | 5,47 | 600 | 475 | 10100 | | | | | | |
| | 180 | 0,33 | 5,00 | 0,41 | 6,11 | 600 | 475 | 10100 | | | | | | |
| | 162 | 0,37 | 5,56 | 0,45 | 6,79 | 600 | 475 | 10100 | | | | | | |
| | 145 | 0,41 | 6,21 | 0,51 | 7,59 | 600 | 475 | 10100 | | | | | | |
| | 622 | 0,10 | 1,45 | 0,12 | 1,77 | 600 | 475 | 10100 | | | | | | |
| | 538 | 0,11 | 1,67 | 0,14 | 2,05 | 600 | 475 | 10100 | | | | | | |
| | 465 | 0,13 | 1,94 | 0,16 | 2,37 | 600 | 475 | 10100 | | | | | | |
| | 435 | 0,14 | 2,07 | 0,17 | 2,53 | 600 | 475 | 10100 | | | | | | |
| | 384 | 0,16 | 2,34 | 0,19 | 2,87 | 600 | 475 | 10100 | | | | | | |
| | 338 | 0,18 | 2,66 | 0,22 | 3,25 | 600 | 475 | 10100 | | | | | | |
| | 301 | 0,20 | 2,99 | 0,24 | 3,65 | 600 | 475 | 10100 | | | | | | |
| | 240 | 0,25 | 3,75 | 0,31 | 4,59 | 600 | 475 | 10100 | | | | | | |
| | 188 | 0,32 | 4,78 | 0,39 | 5,84 | 600 | 475 | 10100 | | | | | | |
| | 169 | 0,36 | 5,34 | 0,44 | 6,52 | 600 | 475 | 10100 | | | | | | |
| | 152 | 0,40 | 5,92 | 0,48 | 7,24 | 600 | 475 | 10100 | | | | | | |
| | 152 | 0,39 | 5,92 | 0,48 | 7,23 | 600 | 1000 | 10100 | | | | | | |
| | 135 | 0,44 | 6,67 | 0,54 | 8,15 | 600 | 1000 | 10100 | | | | | | |
| | 117 | 0,51 | 7,72 | 0,62 | 9,43 | 600 | 1000 | 10100 | | | | | | |
| | 101 | 0,59 | 8,92 | 0,72 | 11 | 600 | 1000 | 10100 | | | | | | |
| | 88,93 | 0,67 | 10 | 0,81 | 12 | 600 | 1000 | 10100 | | | | | | |
| | 78,43 | 0,75 | 11 | 0,92 | 14 | 600 | 1000 | 10100 | | | | | | |
| | 69,75 | 0,85 | 13 | 1,0 | 16 | 600 | 1000 | 9700 | | | | | | |
| | 62,46 | 0,95 | 14 | 1,2 | 18 | 600 | 1000 | 9700 | | | | | | |
| | 55,54 | 1,1 | 16 | 1,3 | 20 | 600 | 1000 | 9700 | | | | | | |
| | 49,74 | 1,2 | 18 | 1,5 | 22 | 600 | 1000 | 9700 | | | | | | |
| | 44,79 | 1,3 | 20 | 1,6 | 25 | 600 | 1000 | 9700 | | | | | | |
| | 39,89 | 1,5 | 23 | 1,8 | 28 | 600 | 1000 | 9500 | | | | | | |
| | 35,22 | 1,7 | 26 | 2,1 | 31 | 600 | 1000 | 9500 | | | | | | |
| | 31,31 | 1,9 | 29 | 2,3 | 35 | 600 | 1000 | 9500 | | | | | | |
| | 27,97 | 2,1 | 32 | 2,6 | 39 | 600 | 1000 | 9250 | | | | | | |
| | 25,10 | 2,4 | 36 | 2,9 | 44 | 600 | 1000 | 9250 | | | | | | |
| | 22,59 | 2,6 | 40 | 3,2 | 49 | 600 | 1000 | 9250 | | | | | | |
| | 31,62 | 1,8 | 28 | 2,3 | 35 | 600 | 1000 | 7500 | | | | | | |
| | 28,06 | 2,1 | 32 | 2,5 | 39 | 600 | 1000 | 7500 | | | | | | |
| | 24,25 | 2,4 | 37 | 2,9 | 45 | 600 | 1000 | 7500 | | | | | | |
| | 21,39 | 2,7 | 42 | 3,3 | 51 | 600 | 1000 | 7500 | | | | | | |
| 19,02 | 3,1 | 47 | 3,7 | 58 | 600 | 1000 | 7250 | | | | | | | |
| 17,03 | 3,4 | 53 | 4,2 | 65 | 600 | 1000 | 7250 | | | | | | | |
| 15,40 | 3,8 | 58 | 4,6 | 71 | 600 | 1000 | 7250 | | | | | | | |
| 13,73 | 4,2 | 66 | 5,2 | 80 | 600 | 1000 | 7250 | | | | | | | |
| 12,13 | 4,8 | 74 | 5,9 | 91 | 600 | 1000 | 7250 | | | | | | | |
| 11,17 | 5,2 | 81 | 6,4 | 98 | 600 | 1000 | 7250 | | | | | | | |
| 9,866 | 5,9 | 91 | 7,2 | 111 | 600 | 1000 | 7000 | | | | | | | |
| 8,769 | 6,6 | 103 | 8,1 | 125 | 600 | 1000 | 7000 | | | | | | | |
| 7,834 | 7,4 | 115 | 9,1 | 140 | 600 | 1000 | 7000 | | | | | | | |
| 7,029 | 8,3 | 128 | 10,1 | 156 | 600 | 1000 | 7000 | | | | | | | |
| 6,327 | 9,2 | 142 | 11,3 | 174 | 600 | 1000 | 7000 | | | | | | | |
| 5,710 | 10,2 | 158 | 12,5 | 193 | 600 | 1000 | 7000 | | | | | | | |
| 5,164 | 11,3 | 174 | 13,8 | 213 | 600 | 1000 | 7000 | | | | | | | |
| 4,677 | 12,5 | 192 | 15,2 | 235 | 600 | 1000 | 7000 | | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 741 | | | 235 236 237 | 47 50 53 |
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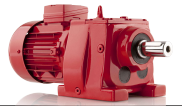
Performance Tables / Tablas de rendimiento



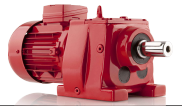
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|-----------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 4,240 | 13,7 | 212 | 16,8 | 259 | 600 | 1000 | 7000 | İRA İRF İRAF | 721 | 229 | 37 |
| | 3,809 | 15,3 | 236 | 18,7 | 289 | 600 | 1000 | 7000 | | | 230 | 40 |
| | 3,438 | 17,0 | 262 | 20,7 | 320 | 600 | 1000 | 7000 | | | 231 | 43 |
| | 3,109 | 18,7 | 289 | 22,9 | 354 | 600 | 1000 | 7000 | | | | |
| | 2,816 | 20,7 | 320 | 25,3 | 391 | 600 | 1000 | 7000 | | | | |
| | 2,553 | 22,8 | 353 | 27,9 | 431 | 600 | 1000 | 7000 | | | | |
| 870 Nm | 16321 | 0,01 | 0,06 | 0,01 | 0,07 | 870 | 475 | 12100 | İRA İRF İRAF | 73 İR 53 | 259 260 261 | 53 56 59 |
| | 14110 | 0,01 | 0,06 | 0,01 | 0,08 | 870 | 475 | 12100 | | | | |
| | 13744 | 0,01 | 0,07 | 0,01 | 0,08 | 870 | 475 | 12100 | | | | |
| | 11919 | 0,01 | 0,08 | 0,01 | 0,09 | 870 | 475 | 12100 | | | | |
| | 10947 | 0,01 | 0,08 | 0,01 | 0,10 | 870 | 475 | 12100 | | | | |
| | 10304 | 0,01 | 0,09 | 0,01 | 0,11 | 870 | 475 | 12100 | | | | |
| | 9654 | 0,01 | 0,09 | 0,01 | 0,11 | 870 | 475 | 12100 | | | | |
| | 8586 | 0,01 | 0,10 | 0,01 | 0,13 | 870 | 475 | 12100 | | | | |
| | 7688 | 0,01 | 0,12 | 0,01 | 0,14 | 870 | 475 | 12100 | | | | |
| | 6474 | 0,01 | 0,14 | 0,02 | 0,17 | 870 | 475 | 12100 | | | | |
| | 5674 | 0,02 | 0,16 | 0,02 | 0,19 | 870 | 475 | 12100 | | | | |
| | 5287 | 0,02 | 0,17 | 0,02 | 0,21 | 870 | 475 | 12100 | | | | |
| | 4423 | 0,02 | 0,20 | 0,02 | 0,25 | 870 | 475 | 12100 | | | | |
| | 3989 | 0,02 | 0,23 | 0,03 | 0,28 | 870 | 475 | 12100 | | | | |
| | 3522 | 0,03 | 0,26 | 0,03 | 0,31 | 870 | 475 | 12100 | | | | |
| | 3153 | 0,03 | 0,29 | 0,03 | 0,35 | 870 | 475 | 12100 | | | | |
| | 2817 | 0,03 | 0,32 | 0,04 | 0,39 | 870 | 475 | 12100 | | | | |
| | 2527 | 0,04 | 0,36 | 0,04 | 0,44 | 870 | 475 | 12100 | | | | |
| | 2106 | 0,04 | 0,43 | 0,05 | 0,52 | 870 | 475 | 12100 | | | | |
| | 2017 | 0,04 | 0,45 | 0,05 | 0,55 | 870 | 475 | 12100 | | | | |
| | 1882 | 0,05 | 0,48 | 0,06 | 0,58 | 870 | 475 | 12100 | | | | |
| | 1703 | 0,05 | 0,53 | 0,06 | 0,65 | 870 | 475 | 12100 | | | | |
| | 1520 | 0,06 | 0,59 | 0,07 | 0,72 | 870 | 475 | 12100 | | | | |
| | 1410 | 0,06 | 0,64 | 0,08 | 0,78 | 870 | 475 | 12100 | | | | |
| | 1265 | 0,07 | 0,71 | 0,09 | 0,87 | 870 | 475 | 12100 | | | | |
| | 1187 | 0,07 | 0,76 | 0,09 | 0,93 | 870 | 475 | 12100 | | | | |
| | 981 | 0,09 | 0,92 | 0,11 | 1,12 | 870 | 475 | 12100 | | | | |
| | 921 | 0,10 | 0,98 | 0,12 | 1,19 | 870 | 475 | 12100 | | | | |
| | 865 | 0,10 | 1,04 | 0,12 | 1,27 | 870 | 475 | 12100 | | | | |
| | 812 | 0,11 | 1,11 | 0,13 | 1,35 | 870 | 475 | 12100 | | | | |
| | 769 | 0,11 | 1,17 | 0,14 | 1,43 | 870 | 475 | 12100 | | | | |
| | 722 | 0,12 | 1,25 | 0,15 | 1,52 | 870 | 475 | 12100 | | | | |
| | 648 | 0,14 | 1,39 | 0,17 | 1,70 | 870 | 475 | 12100 | | | | |
| | 576 | 0,15 | 1,56 | 0,18 | 1,91 | 870 | 475 | 12100 | | | | |
| | 447 | 0,19 | 2,01 | 0,24 | 2,46 | 870 | 475 | 12100 | | | | |
| 394 | 0,22 | 2,28 | 0,27 | 2,79 | 870 | 475 | 12100 | | | | | |
| 351 | 0,25 | 2,57 | 0,30 | 3,14 | 870 | 475 | 12100 | | | | | |
| 314 | 0,28 | 2,87 | 0,34 | 3,50 | 870 | 475 | 12100 | | | | | |
| 283 | 0,31 | 3,18 | 0,38 | 3,89 | 870 | 475 | 12100 | | | | | |
| 154 | 0,56 | 5,83 | 0,68 | 7,12 | 870 | 1200 | 12100 | | | | | |
| 134 | 0,64 | 6,74 | 0,79 | 8,24 | 870 | 1200 | 12100 | | | | | |
| 103 | 0,83 | 8,74 | 1,0 | 11 | 870 | 1200 | 12100 | | | | | |
| 91,36 | 0,94 | 9,85 | 1,1 | 12 | 870 | 1200 | 12100 | | | | | |
| 81,25 | 1,1 | 11 | 1,3 | 14 | 870 | 1200 | 12100 | | | | | |
| 72,76 | 1,2 | 12 | 1,4 | 15 | 870 | 1200 | 12100 | | | | | |
| 65,52 | 1,3 | 14 | 1,6 | 17 | 870 | 1200 | 12100 | | | | | |
| 59,42 | 1,4 | 15 | 1,8 | 19 | 870 | 1200 | 12100 | | | | | |
| 52,47 | 1,6 | 17 | 2,0 | 21 | 870 | 1200 | 12100 | | | | | |
| 46,36 | 1,9 | 19 | 2,3 | 24 | 870 | 1200 | 12100 | | | | | |
| 41,67 | 2,1 | 22 | 2,5 | 26 | 870 | 1200 | 12100 | | | | | |
| 37,38 | 2,3 | 24 | 2,8 | 29 | 870 | 1200 | 12100 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 73 | 247 | 37 |
| | | | | | | | | | | | 248 | 40 |
| | | | | | | | | | | | 249 | 43 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |



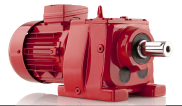
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|---|---|-----------------|----|-------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 870 Nm | 31,16 | 2,8 | 29 | 3,4 | 35 | 870 | 1200 | 12100 | IRA IRF IRAF | 73 | | | 247 248 249 | 37 40 43 | |
| | 27,84 | 3,1 | 32 | 3,8 | 40 | 870 | 1200 | 12100 | | | | | | | |
| | 24,98 | 3,4 | 36 | 4,2 | 44 | 870 | 1200 | 12100 | | | | | | | |
| | 22,48 | 3,8 | 40 | 4,7 | 49 | 870 | 1200 | 12100 | | | | | | | |
| | 20,29 | 4,2 | 44 | 5,2 | 54 | 870 | 1200 | 12100 | | | | | | | |
| | 18,35 | 4,7 | 49 | 5,7 | 60 | 870 | 1200 | 12100 | | | | | | | |
| | 16,62 | 5,2 | 54 | 6,3 | 66 | 870 | 1200 | 12100 | | | | | | | |
| | 15,07 | 5,7 | 60 | 7,0 | 73 | 870 | 1200 | 12100 | | | | | | | |
| | 13,53 | 6,2 | 67 | 7,6 | 81 | 870 | 1200 | 9000 | | | | | | | |
| | 12,02 | 7,0 | 75 | 8,6 | 91 | 870 | 1200 | 9000 | | | | | | | |
| | 10,74 | 7,9 | 84 | 9,6 | 102 | 870 | 1200 | 9000 | | | | | | | |
| | 9,337 | 9,1 | 96 | 11,1 | 118 | 870 | 1200 | 9000 | | | | | | | |
| | 8,333 | 10,1 | 108 | 12,4 | 132 | 870 | 1200 | 9000 | | | | | | | |
| | 7,476 | 11,3 | 120 | 13,8 | 147 | 870 | 1200 | 9000 | | | | | | | |
| | 6,730 | 12,6 | 134 | 15,3 | 163 | 870 | 1200 | 9000 | | | | | | | |
| | 6,074 | 13,9 | 148 | 17,0 | 181 | 870 | 1200 | 9000 | | | | | | | |
| | 5,494 | 15,4 | 164 | 18,8 | 200 | 870 | 1200 | 9000 | | | | | | | |
| | 4,995 | 16,9 | 180 | 20,7 | 220 | 870 | 1200 | 9000 | | | | | | | |
| | 4,497 | 18,8 | 200 | 23,0 | 245 | 870 | 1200 | 9000 | | | | | | | |
| | 4,059 | 20,8 | 222 | 25,4 | 271 | 870 | 1200 | 9000 | | | | | | | |
| | 3,670 | 23,0 | 245 | 28,1 | 300 | 870 | 1200 | 9000 | | | | | | | |
| | 3,324 | 25,4 | 271 | 31,1 | 331 | 870 | 1200 | 9000 | | | | | | | |
| | 3,014 | 28,0 | 299 | 34,3 | 365 | 870 | 1200 | 9000 | | | | | | | |
| | 2,733 | 30,9 | 329 | 37,8 | 402 | 870 | 1200 | 9000 | | | | | | | |
| 2,571 | 32,9 | 350 | 40,2 | 428 | 870 | 1200 | 9000 | | | | | | | | |
| 1500 Nm | 18231 | 0,01 | 0,05 | 0,01 | 0,06 | 1500 | 590 | 17000 | IRA IRF IRAF | 83 IR 53 | | | 277 278 279 | 120 125 127 | |
| | 15217 | 0,01 | 0,06 | 0,01 | 0,07 | 1500 | 590 | 17000 | | | | | | | |
| | 13984 | 0,01 | 0,06 | 0,01 | 0,08 | 1500 | 590 | 17000 | | | | | | | |
| | 12302 | 0,01 | 0,07 | 0,02 | 0,09 | 1500 | 590 | 17500 | | | | | | | |
| | 10968 | 0,01 | 0,08 | 0,02 | 0,10 | 1500 | 590 | 17500 | | | | | | | |
| | 8893 | 0,02 | 0,10 | 0,02 | 0,12 | 1500 | 590 | 17500 | | | | | | | |
| | 7902 | 0,02 | 0,11 | 0,02 | 0,14 | 1500 | 590 | 17500 | | | | | | | |
| | 7092 | 0,02 | 0,13 | 0,03 | 0,16 | 1500 | 590 | 17500 | | | | | | | |
| | 6393 | 0,02 | 0,14 | 0,03 | 0,17 | 1500 | 590 | 17500 | | | | | | | |
| | 5484 | 0,03 | 0,16 | 0,03 | 0,20 | 1500 | 590 | 17500 | | | | | | | |
| | 4922 | 0,03 | 0,18 | 0,04 | 0,22 | 1500 | 590 | 17500 | | | | | | | |
| | 4437 | 0,03 | 0,20 | 0,04 | 0,25 | 1500 | 590 | 17500 | | | | | | | |
| | 4015 | 0,04 | 0,22 | 0,05 | 0,27 | 1500 | 590 | 17500 | | | | | | | |
| | 3593 | 0,04 | 0,25 | 0,05 | 0,31 | 1500 | 590 | 17500 | | | | | | | |
| | 3239 | 0,05 | 0,28 | 0,06 | 0,34 | 1500 | 590 | 17500 | | | | | | | |
| | 2930 | 0,05 | 0,31 | 0,06 | 0,38 | 1500 | 590 | 17500 | | | | | | | |
| | 2659 | 0,06 | 0,34 | 0,07 | 0,41 | 1500 | 590 | 17500 | | | | | | | |
| | 2419 | 0,06 | 0,37 | 0,08 | 0,45 | 1500 | 590 | 17500 | | | | | | | |
| | 2205 | 0,07 | 0,41 | 0,09 | 0,50 | 1500 | 590 | 17500 | | | | | | | |
| | 2013 | 0,08 | 0,45 | 0,09 | 0,55 | 1500 | 590 | 17500 | | | | | | | |
| | 1840 | 0,08 | 0,49 | 0,10 | 0,60 | 1500 | 590 | 17500 | | | | | | | |
| | 1778 | 0,09 | 0,51 | 0,10 | 0,62 | 1500 | 590 | 17500 | | | | | | | |
| | 1580 | 0,10 | 0,57 | 0,12 | 0,70 | 1500 | 590 | 17500 | | | | | | | |
| | 1418 | 0,11 | 0,63 | 0,13 | 0,78 | 1500 | 590 | 17500 | | | | | | | |
| | 1308 | 0,12 | 0,69 | 0,14 | 0,84 | 1500 | 590 | 17500 | | | | | | | |
| | 1279 | 0,12 | 0,70 | 0,15 | 0,86 | 1500 | 590 | 17500 | | | | | | | |
| | 1162 | 0,13 | 0,77 | 0,16 | 0,95 | 1500 | 590 | 17500 | | | | | | | |
| | 1157 | 0,13 | 0,78 | 0,16 | 0,95 | 1500 | 590 | 17500 | | | | | | | |
| | 1050 | 0,15 | 0,86 | 0,18 | 1,05 | 1500 | 590 | 17500 | | | | | | | |
| | 1043 | 0,15 | 0,86 | 0,18 | 1,05 | 1500 | 590 | 17500 | | | | | | | |
| | 940 | 0,16 | 0,96 | 0,20 | 1,17 | 1500 | 590 | 17500 | | | | | | | |
| | 850 | 0,18 | 1,06 | 0,22 | 1,29 | 1500 | 590 | 17500 | | | | | | | |
| | 772 | 0,20 | 1,17 | 0,24 | 1,42 | 1500 | 590 | 17500 | | | | | | | |
| | 723 | 0,21 | 1,24 | 0,26 | 1,52 | 1500 | 590 | 17500 | | | | | | | |
| | | | | | | | | | | IRA IRF IRAF | 82 IR 53 | | | 277 278 279 | 130 135 137 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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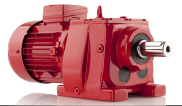
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|-------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 1500 Nm | 700 | 0,21 | 1,29 | 0,26 | 1,57 | 1500 | 590 | 17500 | IRA IRF IRAF | 84 | 271 272 273 | 106 111 113 |
| | 635 | 0,24 | 1,42 | 0,29 | 1,73 | 1500 | 590 | 17500 | | | | |
| | 579 | 0,26 | 1,56 | 0,32 | 1,90 | 1500 | 590 | 17500 | | | | |
| | 530 | 0,28 | 1,70 | 0,35 | 2,08 | 1500 | 590 | 17500 | | | | |
| | 487 | 0,31 | 1,85 | 0,38 | 2,26 | 1500 | 590 | 17500 | | | | |
| | 428 | 0,35 | 2,10 | 0,43 | 2,57 | 1500 | 590 | 17500 | | | | |
| | 382 | 0,39 | 2,36 | 0,48 | 2,88 | 1500 | 590 | 17500 | | | | |
| | 343 | 0,44 | 2,62 | 0,54 | 3,21 | 1500 | 590 | 17500 | | | | |
| | 310 | 0,48 | 2,91 | 0,59 | 3,55 | 1500 | 590 | 17500 | | | | |
| | 275 | 0,55 | 3,27 | 0,67 | 4,00 | 1500 | 590 | 17500 | | | | |
| | 273 | 0,55 | 3,30 | 0,67 | 4,03 | 1500 | 590 | 17500 | | | | |
| | 243 | 0,62 | 3,71 | 0,76 | 4,53 | 1500 | 590 | 17500 | | | | |
| | 218 | 0,69 | 4,13 | 0,84 | 5,05 | 1500 | 590 | 17500 | | | | |
| | 196 | 0,76 | 4,58 | 0,93 | 5,60 | 1500 | 590 | 17500 | | | | |
| | 174 | 0,86 | 5,16 | 1,1 | 6,30 | 1500 | 590 | 17500 | | | | |
| | 168 | 0,89 | 5,34 | 1,1 | 6,53 | 1500 | 590 | 17500 | | | | |
| | 251 | 0,59 | 3,59 | 0,72 | 4,39 | 1500 | 1550 | 17500 | | | | |
| | 221 | 0,67 | 4,07 | 0,82 | 4,97 | 1500 | 1550 | 17500 | | | | |
| | 209 | 0,71 | 4,31 | 0,87 | 5,27 | 1500 | 1550 | 17500 | | | | |
| | 187 | 0,79 | 4,82 | 0,97 | 5,89 | 1500 | 1550 | 17500 | | | | |
| | 168 | 0,88 | 5,35 | 1,1 | 6,53 | 1500 | 1550 | 17500 | | | | |
| | 153 | 0,97 | 5,89 | 1,2 | 7,20 | 1500 | 1550 | 17500 | | | | |
| | 139 | 1,1 | 6,47 | 1,3 | 7,90 | 1500 | 1550 | 17500 | | | | |
| | 127 | 1,2 | 7,06 | 1,4 | 8,63 | 1500 | 1550 | 17500 | | | | |
| | 117 | 1,3 | 7,68 | 1,5 | 9,39 | 1500 | 1550 | 17500 | | | | |
| | 103 | 1,4 | 8,74 | 1,8 | 11 | 1500 | 1550 | 17500 | | | | |
| | 91,85 | 1,6 | 9,80 | 2,0 | 12 | 1500 | 1550 | 17500 | | | | |
| | 82,47 | 1,8 | 11 | 2,2 | 13 | 1500 | 1550 | 17500 | | | | |
| | 74,47 | 2,0 | 12 | 2,4 | 15 | 1500 | 1550 | 17500 | | | | |
| | 66,18 | 2,2 | 14 | 2,7 | 17 | 1500 | 1550 | 17500 | | | | |
| | 59,39 | 2,5 | 15 | 3,0 | 19 | 1500 | 1550 | 17500 | | | | |
| | 53,54 | 2,8 | 17 | 3,4 | 21 | 1500 | 1550 | 17500 | | | | |
| | 47,59 | 3,1 | 19 | 3,8 | 23 | 1500 | 1550 | 17500 | | | | |
| | 45,93 | 3,2 | 20 | 3,9 | 24 | 1500 | 1550 | 17500 | | | | |
| | 41,22 | 3,6 | 22 | 4,4 | 27 | 1500 | 1550 | 17500 | | | | |
| | 37,16 | 4,0 | 24 | 4,9 | 30 | 1500 | 1550 | 17500 | | | | |
| | 33,03 | 4,5 | 27 | 5,5 | 33 | 1500 | 1550 | 17500 | | | | |
| | 30,08 | 4,9 | 30 | 6,0 | 37 | 1500 | 1550 | 17500 | | | | |
| | 27,12 | 5,5 | 33 | 6,7 | 41 | 1500 | 1550 | 17500 | | | | |
| | 24,54 | 6,0 | 37 | 7,4 | 45 | 1500 | 1550 | 17500 | | | | |
| | 22,27 | 6,6 | 40 | 8,1 | 49 | 1500 | 1550 | 17500 | | | | |
| | 20,26 | 7,3 | 44 | 8,9 | 54 | 1500 | 1550 | 17500 | | | | |
| 18,47 | 8,0 | 49 | 9,8 | 60 | 1500 | 1550 | 17500 | | | | | |
| 16,86 | 8,8 | 53 | 10,7 | 65 | 1500 | 1550 | 17500 | | | | | |
| 15,41 | 9,6 | 58 | 11,7 | 71 | 1500 | 1550 | 17500 | | | | | |
| 14,90 | 9,8 | 60 | 12,0 | 74 | 1500 | 1550 | 13000 | | | | | |
| 13,24 | 11,0 | 68 | 13,5 | 83 | 1500 | 1550 | 13000 | | | | | |
| 11,88 | 12,3 | 76 | 15,0 | 93 | 1500 | 1550 | 13000 | | | | | |
| 10,71 | 13,6 | 84 | 16,6 | 103 | 1500 | 1550 | 13000 | | | | | |
| 9,689 | 15,0 | 93 | 18,4 | 114 | 1500 | 1550 | 13000 | | | | | |
| 8,793 | 16,6 | 102 | 20,3 | 125 | 1500 | 1550 | 13000 | | | | | |
| 8,244 | 17,7 | 109 | 21,6 | 133 | 1500 | 1550 | 13000 | | | | | |
| 7,432 | 19,6 | 121 | 24,0 | 148 | 1500 | 1550 | 13000 | | | | | |
| 6,724 | 21,7 | 134 | 26,5 | 164 | 1500 | 1550 | 13000 | | | | | |
| 6,103 | 23,9 | 147 | 29,2 | 180 | 1500 | 1550 | 13000 | | | | | |
| 5,552 | 26,2 | 162 | 32,1 | 198 | 1500 | 1550 | 13000 | | | | | |
| 5,061 | 28,8 | 178 | 35,2 | 217 | 1500 | 1550 | 13000 | | | | | |
| | | | | | | | | IRA IRF IRAF | 82 | 265 266 267 | 89 94 96 | |



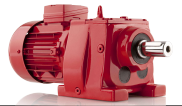
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|---|-----------------|--|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 1500 Nm | 4,620 | 31,5 | 195 | 38,5 | 238 | 1500 | 1550 | 13000 | IRA IRF IRAF | 82 | | 265 266 267 | 89 94 96 |
| | 4,222 | 34,5 | 213 | 42,2 | 261 | 1500 | 1550 | 13000 | | | | | |
| | 4,052 | 36,0 | 222 | 43,9 | 271 | 1500 | 1550 | 13000 | | | | | |
| | 3,694 | 39,4 | 244 | 48,2 | 298 | 1500 | 1550 | 13000 | | | | | |
| | 3,372 | 43,2 | 267 | 52,8 | 326 | 1500 | 1550 | 13000 | | | | | |
| | 3,082 | 47,3 | 292 | 57,8 | 357 | 1500 | 1550 | 13000 | | | | | |
| | 2,926 | 49,8 | 308 | 60,9 | 376 | 1500 | 1550 | 13000 | | | | | |
| | 2,674 | 54,5 | 337 | 66,6 | 411 | 1500 | 1550 | 13000 | | | | | |
| | 2,373 | 61,4 | 379 | 75,0 | 464 | 1500 | 1550 | 13000 | | | | | |
| 2800 Nm | 22852 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | IRA IRF IRAF | 93 IR 63 | | 295 296 297 | 154 164 174 |
| | 20623 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 18725 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 18426 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 17911 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 16707 | 0,02 | 0,05 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 16629 | 0,02 | 0,05 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 15663 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 15160 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 15098 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 14679 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 14410 | 0,02 | 0,06 | 0,02 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 13583 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 13137 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 13037 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 12258 | 0,02 | 0,07 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 11681 | 0,02 | 0,08 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 11577 | 0,02 | 0,08 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 11130 | 0,03 | 0,08 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 10542 | 0,03 | 0,09 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 10288 | 0,03 | 0,09 | 0,03 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 9565 | 0,03 | 0,09 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 9309 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 9206 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 8565 | 0,03 | 0,11 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 8198 | 0,04 | 0,11 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 8006 | 0,04 | 0,11 | 0,04 | 0,14 | 2800 | 590 | 25000 | | | | | |
| | 7808 | 0,04 | 0,12 | 0,05 | 0,14 | 2800 | 590 | 25000 | | | | | |
| | 7366 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 7224 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 6881 | 0,04 | 0,13 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 6715 | 0,04 | 0,13 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 6420 | 0,05 | 0,14 | 0,06 | 0,17 | 2800 | 590 | 25000 | | | | | |
| | 6115 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| | 5918 | 0,05 | 0,15 | 0,06 | 0,19 | 2800 | 590 | 25000 | | | | | |
| | 5745 | 0,05 | 0,16 | 0,06 | 0,19 | 2800 | 590 | 25000 | | | | | |
| | 5472 | 0,05 | 0,16 | 0,06 | 0,20 | 2800 | 590 | 25000 | | | | | |
| | 5259 | 0,05 | 0,17 | 0,07 | 0,21 | 2800 | 590 | 25000 | | | | | |
| | 5169 | 0,06 | 0,17 | 0,07 | 0,21 | 2800 | 590 | 25000 | | | | | |
| | 4872 | 0,06 | 0,18 | 0,07 | 0,23 | 2800 | 590 | 25000 | | | | | |
| | 4706 | 0,06 | 0,19 | 0,08 | 0,23 | 2800 | 590 | 25000 | | | | | |
| 4673 | 0,06 | 0,19 | 0,08 | 0,24 | 2800 | 590 | 25000 | | | | | | |
| 4294 | 0,07 | 0,21 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | | |
| 4241 | 0,07 | 0,21 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | | |
| 4190 | 0,07 | 0,21 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | | |



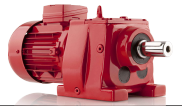
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 2800 Nm | 3954 | 0,07 | 0,23 | 0,09 | 0,28 | 2800 | 590 | 25000 | İRA İRF İRAF | 93 İR 62 | 295 296 297 | 149 159 169 |
| | 3688 | 0,08 | 0,24 | 0,09 | 0,30 | 2800 | 590 | 25000 | | | | |
| | 3582 | 0,08 | 0,25 | 0,10 | 0,31 | 2800 | 590 | 25000 | | | | |
| | 3341 | 0,09 | 0,27 | 0,10 | 0,33 | 2800 | 590 | 25000 | | | | |
| | 3241 | 0,09 | 0,28 | 0,11 | 0,34 | 2800 | 590 | 25000 | | | | |
| | 2936 | 0,10 | 0,31 | 0,12 | 0,37 | 2800 | 590 | 25000 | | | | |
| | 2878 | 0,10 | 0,31 | 0,12 | 0,38 | 2800 | 590 | 25000 | | | | |
| | 2607 | 0,11 | 0,35 | 0,13 | 0,42 | 2800 | 590 | 25000 | | | | |
| | 2336 | 0,12 | 0,39 | 0,15 | 0,47 | 2800 | 590 | 25000 | | | | |
| | 2108 | 0,14 | 0,43 | 0,17 | 0,52 | 2800 | 590 | 25000 | | | | |
| | 1914 | 0,15 | 0,47 | 0,18 | 0,57 | 2800 | 590 | 25000 | | | | |
| | 1601 | 0,18 | 0,56 | 0,22 | 0,69 | 2800 | 590 | 25000 | | | | |
| | 1473 | 0,19 | 0,61 | 0,24 | 0,75 | 2800 | 590 | 25000 | | | | |
| | 1343 | 0,21 | 0,67 | 0,26 | 0,82 | 2800 | 590 | 25000 | | | | |
| | 1183 | 0,24 | 0,76 | 0,29 | 0,93 | 2800 | 590 | 25000 | | | | |
| | 1052 | 0,27 | 0,86 | 0,33 | 1,05 | 2800 | 590 | 25000 | | | | |
| | 941 | 0,30 | 0,96 | 0,37 | 1,17 | 2800 | 590 | 25000 | | | | |
| | 838 | 0,34 | 1,07 | 0,42 | 1,31 | 2800 | 590 | 25000 | | | | |
| | 739 | 0,39 | 1,22 | 0,47 | 1,49 | 2800 | 590 | 25000 | | | | |
| | 656 | 0,43 | 1,37 | 0,53 | 1,68 | 2800 | 590 | 25000 | | | | |
| | 587 | 0,48 | 1,53 | 0,59 | 1,87 | 2800 | 590 | 25000 | | | | |
| | 528 | 0,54 | 1,70 | 0,66 | 2,08 | 2800 | 590 | 25000 | | | | |
| | 478 | 0,59 | 1,88 | 0,72 | 2,30 | 2800 | 590 | 25000 | | | | |
| | 431 | 0,65 | 2,09 | 0,79 | 2,55 | 2800 | 590 | 25000 | | | | |
| | 380 | 0,74 | 2,37 | 0,90 | 2,89 | 2800 | 590 | 25000 | | | | |
| | 338 | 0,83 | 2,66 | 1,0 | 3,26 | 2800 | 590 | 25000 | | | | |
| | 302 | 0,93 | 2,98 | 1,1 | 3,64 | 2800 | 590 | 25000 | | | | |
| | 269 | 1,0 | 3,34 | 1,3 | 4,09 | 2800 | 590 | 25000 | | | | |
| | 237 | 1,2 | 3,79 | 1,4 | 4,64 | 2800 | 590 | 25000 | | | | |
| | 211 | 1,3 | 4,27 | 1,6 | 5,22 | 2800 | 590 | 25000 | | | | |
| | 189 | 1,5 | 4,77 | 1,8 | 5,83 | 2800 | 590 | 25000 | | | | |
| | 170 | 1,7 | 5,30 | 2,0 | 6,48 | 2800 | 590 | 25000 | | | | |
| | 153 | 1,8 | 5,87 | 2,2 | 7,17 | 2800 | 590 | 25000 | | | | |
| | 293 | 0,94 | 3,07 | 1,1 | 3,75 | 2800 | 2500 | 25000 | | | | |
| | 274 | 1,0 | 3,29 | 1,2 | 4,02 | 2800 | 2500 | 25000 | | | | |
| | 241 | 1,1 | 3,74 | 1,4 | 4,57 | 2800 | 2500 | 25000 | | | | |
| | 214 | 1,3 | 4,21 | 1,6 | 5,15 | 2800 | 2500 | 25000 | | | | |
| | 191 | 1,4 | 4,70 | 1,8 | 5,75 | 2800 | 2500 | 25000 | | | | |
| | 173 | 1,6 | 5,21 | 2,0 | 6,37 | 2800 | 2500 | 25000 | | | | |
| | 157 | 1,8 | 5,74 | 2,2 | 7,01 | 2800 | 2500 | 25000 | | | | |
| 131 | 2,1 | 6,86 | 2,6 | 8,39 | 2800 | 2500 | 25000 | | | | | |
| 121 | 2,3 | 7,46 | 2,8 | 9,11 | 2800 | 2500 | 25000 | | | | | |
| 110 | 2,5 | 8,18 | 3,1 | 10,00 | 2800 | 2500 | 25000 | | | | | |
| 96,96 | 2,8 | 9,28 | 3,5 | 11 | 2800 | 2500 | 25000 | | | | | |
| 86,17 | 3,2 | 10 | 3,9 | 13 | 2800 | 2500 | 25000 | | | | | |
| 77,10 | 3,6 | 12 | 4,4 | 14 | 2800 | 2500 | 25000 | | | | | |
| 68,66 | 4,0 | 13 | 4,9 | 16 | 2800 | 2500 | 25000 | | | | | |
| 60,50 | 4,6 | 15 | 5,6 | 18 | 2800 | 2500 | 25000 | | | | | |
| 53,77 | 5,1 | 17 | 6,3 | 20 | 2800 | 2500 | 25000 | | | | | |
| 48,11 | 5,7 | 19 | 7,0 | 23 | 2800 | 2500 | 25000 | | | | | |
| 43,29 | 6,4 | 21 | 7,8 | 25 | 2800 | 2500 | 25000 | | | | | |
| 39,14 | 7,1 | 23 | 8,6 | 28 | 2800 | 2500 | 25000 | | | | | |
| 35,52 | 7,8 | 25 | 9,5 | 31 | 2800 | 2500 | 25000 | | | | | |
| 32,34 | 8,5 | 28 | 10,4 | 34 | 2800 | 2500 | 25000 | | | | | |
| 29,53 | 9,4 | 30 | 11,4 | 37 | 2800 | 2500 | 25000 | | | | | |
| 27,01 | 10,2 | 33 | 12,5 | 41 | 2800 | 2500 | 25000 | | | | | |
| | | | | | | | | | | | 283 284 285 | 133 143 153 |



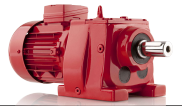
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|--|--|---|---|--|---|---------------------|-----------|-----|-----|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=900rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 2800 Nm | 24,76 | 11,2 | 36 | 13,6 | 44 | 2800 | 2500 | 25000 | İRA İRF İRAF | 93 | 283 | 133 |
| | 20,09 | 13,7 | 45 | 16,8 | 55 | 2800 | 2500 | 25000 | | | 284 | 143 |
| | 16,85 | 16,4 | 53 | 20,0 | 65 | 2800 | 2500 | 25000 | | | 285 | 153 |
| | 14,21 | 19,4 | 63 | 23,7 | 77 | 2800 | 2500 | 25000 | İRA İRF İRAF | 92 | 283 | 163 |
| | 23,38 | 11,6 | 38 | 14,2 | 47 | 2800 | 2500 | 20000 | | | | |
| | 20,60 | 13,2 | 44 | 16,1 | 53 | 2800 | 2500 | 20000 | | | | |
| | 18,31 | 14,9 | 49 | 18,2 | 60 | 2800 | 2500 | 20000 | | | | |
| | 16,38 | 16,6 | 55 | 20,3 | 67 | 2800 | 2500 | 20000 | | | | |
| | 14,74 | 18,4 | 61 | 22,5 | 75 | 2800 | 2500 | 20000 | | | | |
| | 13,33 | 20,4 | 68 | 24,9 | 83 | 2800 | 2500 | 20000 | | | | |
| | 11,01 | 24,7 | 82 | 30,2 | 100 | 2800 | 2500 | 20000 | | | | |
| | 10,05 | 27,1 | 90 | 33,1 | 109 | 2800 | 2500 | 20000 | | | | |
| | 9,200 | 29,6 | 98 | 36,1 | 120 | 2800 | 2500 | 20000 | | | | |
| | 8,317 | 32,7 | 108 | 40,0 | 132 | 2800 | 2500 | 20000 | | | | |
| | 7,548 | 36,0 | 119 | 44,0 | 146 | 2800 | 2500 | 20000 | | | | |
| | 6,872 | 39,6 | 131 | 48,4 | 160 | 2800 | 2500 | 20000 | | | | |
| | 6,274 | 43,3 | 143 | 53,0 | 175 | 2800 | 2500 | 20000 | | | | |
| | 5,740 | 47,4 | 157 | 57,9 | 192 | 2800 | 2500 | 20000 | | | | |
| | 5,261 | 51,7 | 171 | 63,2 | 209 | 2800 | 2500 | 20000 | | | | |
| | 4,437 | 61,3 | 203 | 74,9 | 248 | 2800 | 2500 | 20000 | | | | |
| 4,080 | 66,7 | 221 | 81,5 | 270 | 2800 | 2500 | 20000 | | | | | |
| 3,753 | 72,5 | 240 | 88,6 | 293 | 2800 | 2500 | 20000 | | | | | |
| 3,580 | 76,0 | 251 | 92,9 | 307 | 2800 | 2500 | 20000 | | | | | |
| 3,019 | 90,1 | 298 | 110 | 364 | 2800 | 2500 | 20000 | | | | | |
| 2,776 | 98,0 | 324 | 120 | 396 | 2800 | 2500 | 20000 | | | | | |
| 2,554 | 106 | 352 | 130 | 431 | 2800 | 2500 | 20000 | | | | | |
| 2,450 | 111 | 367 | 136 | 449 | 2800 | 2500 | 20000 | | | | | |
| 4300 Nm | 22099 | 0,02 | 0,04 | 0,02 | 0,05 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 73 | 313 | 253 |
| | 18788 | 0,02 | 0,05 | 0,03 | 0,06 | 4300 | 1200 | 34000 | | | | |
| | 16845 | 0,03 | 0,05 | 0,03 | 0,07 | 4300 | 1200 | 34000 | | | | |
| | 15213 | 0,03 | 0,06 | 0,04 | 0,07 | 4300 | 1200 | 34000 | | | | |
| | 13823 | 0,03 | 0,07 | 0,04 | 0,08 | 4300 | 1200 | 34000 | | | | |
| | 12625 | 0,04 | 0,07 | 0,04 | 0,09 | 4300 | 1200 | 34000 | | | | |
| | 11581 | 0,04 | 0,08 | 0,05 | 0,09 | 4300 | 1200 | 34000 | | | | |
| | 10325 | 0,04 | 0,09 | 0,05 | 0,11 | 4300 | 1200 | 34000 | | | | |
| | 9118 | 0,05 | 0,10 | 0,06 | 0,12 | 4300 | 1200 | 34000 | | | | |
| | 8104 | 0,05 | 0,11 | 0,07 | 0,14 | 4300 | 1200 | 34000 | | | | |
| | 7241 | 0,06 | 0,12 | 0,07 | 0,15 | 4300 | 1200 | 34000 | | | | |
| | 6496 | 0,07 | 0,14 | 0,08 | 0,17 | 4300 | 1200 | 34000 | | | | |
| | 5848 | 0,08 | 0,15 | 0,09 | 0,19 | 4300 | 1200 | 34000 | | | | |
| | 5278 | 0,08 | 0,17 | 0,10 | 0,21 | 4300 | 1200 | 34000 | | | | |
| | 4790 | 0,09 | 0,19 | 0,11 | 0,23 | 4300 | 1200 | 34000 | | | | |
| | 4230 | 0,10 | 0,21 | 0,13 | 0,26 | 4300 | 1200 | 34000 | | | | |
| | 3760 | 0,12 | 0,24 | 0,14 | 0,29 | 4300 | 1200 | 34000 | | | | |
| | 3359 | 0,13 | 0,27 | 0,16 | 0,33 | 4300 | 1200 | 34000 | | | | |
| | 3014 | 0,15 | 0,30 | 0,18 | 0,36 | 4300 | 1200 | 34000 | | | | |
| | 2713 | 0,16 | 0,33 | 0,20 | 0,41 | 4300 | 1200 | 34000 | | | | |
| 2448 | 0,18 | 0,37 | 0,22 | 0,45 | 4300 | 1200 | 34000 | | | | | |
| 2733 | 0,16 | 0,33 | 0,20 | 0,40 | 4300 | 1200 | 34000 | İRA İRF İRAF | 102 İR 73 | 313 | 246 | |
| 2413 | 0,18 | 0,37 | 0,22 | 0,46 | 4300 | 1200 | 34000 | | | | | |
| 2145 | 0,20 | 0,42 | 0,25 | 0,51 | 4300 | 1200 | 34000 | | | | | |
| 1916 | 0,23 | 0,47 | 0,28 | 0,57 | 4300 | 1200 | 34000 | | | | | |
| 1635 | 0,27 | 0,55 | 0,33 | 0,67 | 4300 | 1200 | 34000 | | | | | |
| 1460 | 0,30 | 0,62 | 0,37 | 0,75 | 4300 | 1200 | 34000 | | | | | |
| 1311 | 0,33 | 0,69 | 0,41 | 0,84 | 4300 | 1200 | 34000 | | | | | |
| 1180 | 0,37 | 0,76 | 0,45 | 0,93 | 4300 | 1200 | 34000 | | | | | |



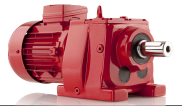
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 4300 Nm | 1173 | 0,37 | 0,77 | 0,46 | 0,94 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 İR 72 | 313 | 251 |
| | 1046 | 0,42 | 0,86 | 0,51 | 1,05 | 4300 | 1200 | 34000 | | | 314 | 254 |
| | 923 | 0,47 | 0,98 | 0,58 | 1,19 | 4300 | 1200 | 34000 | | | 315 | 276 |
| | 821 | 0,53 | 1,10 | 0,65 | 1,34 | 4300 | 1200 | 34000 | İRA İRF İRAF | 104 | 307 308 309 | 246 249 271 |
| | 803 | 0,54 | 1,12 | 0,66 | 1,37 | 4300 | 1200 | 34000 | | | | |
| | 720 | 0,60 | 1,25 | 0,73 | 1,53 | 4300 | 1200 | 34000 | | | | |
| | 612 | 0,70 | 1,47 | 0,86 | 1,80 | 4300 | 1200 | 34000 | | | | |
| | 548 | 0,78 | 1,64 | 0,96 | 2,01 | 4300 | 1200 | 34000 | | | | |
| | 495 | 0,87 | 1,82 | 1,1 | 2,22 | 4300 | 1200 | 34000 | | | | |
| | 447 | 0,96 | 2,02 | 1,2 | 2,46 | 4300 | 1200 | 34000 | | | | |
| | 406 | 1,1 | 2,22 | 1,3 | 2,71 | 4300 | 1200 | 34000 | | | | |
| | 371 | 1,2 | 2,43 | 1,4 | 2,97 | 4300 | 1200 | 34000 | | | | |
| | 340 | 1,3 | 2,65 | 1,5 | 3,24 | 4300 | 1200 | 34000 | | | | |
| | 306 | 1,4 | 2,94 | 1,7 | 3,59 | 4300 | 1200 | 34000 | | | | |
| | 281 | 1,5 | 3,20 | 1,9 | 3,91 | 4300 | 1200 | 34000 | | | | |
| | 256 | 1,7 | 3,52 | 2,0 | 4,30 | 4300 | 3750 | 30000 | İRA İRF İRAF | 103 | 301 302 303 | 207 210 232 |
| | 225 | 1,9 | 4,00 | 2,3 | 4,89 | 4300 | 3750 | 30000 | | | | |
| | 208 | 2,0 | 4,33 | 2,5 | 5,30 | 4300 | 3750 | 30000 | | | | |
| | 185 | 2,3 | 4,88 | 2,8 | 5,96 | 4300 | 3750 | 30000 | | | | |
| | 165 | 2,6 | 5,44 | 3,1 | 6,65 | 4300 | 3750 | 30000 | | | | |
| | 141 | 3,0 | 6,40 | 3,7 | 7,82 | 4300 | 3750 | 30000 | | | | |
| | 126 | 3,4 | 7,13 | 4,1 | 8,72 | 4300 | 3750 | 30000 | | | | |
| | 113 | 3,7 | 7,95 | 4,6 | 9,72 | 4300 | 3750 | 30000 | | | | |
| | 104 | 4,1 | 8,69 | 5,0 | 11 | 4300 | 3750 | 30000 | | | | |
| | 94,54 | 4,5 | 9,52 | 5,5 | 12 | 4300 | 3750 | 30000 | | | | |
| | 86,72 | 4,9 | 10 | 6,0 | 13 | 4300 | 3750 | 30000 | | | | |
| | 77,32 | 5,5 | 12 | 6,7 | 14 | 4300 | 3750 | 30000 | | | | |
| | 68,28 | 6,2 | 13 | 7,6 | 16 | 4300 | 3750 | 30000 | | | | |
| | 60,69 | 7,0 | 15 | 8,5 | 18 | 4300 | 3750 | 30000 | | | | |
| | 54,22 | 7,8 | 17 | 9,6 | 20 | 4300 | 3750 | 30000 | | | | |
| | 48,65 | 8,7 | 19 | 10,7 | 23 | 4300 | 3750 | 30000 | | | | |
| | 43,79 | 9,7 | 21 | 11,8 | 25 | 4300 | 3750 | 30000 | | | | |
| | 39,53 | 10,7 | 23 | 13,1 | 28 | 4300 | 3750 | 30000 | | | | |
| | 35,87 | 11,8 | 25 | 14,4 | 31 | 4300 | 3750 | 30000 | | | | |
| | 31,68 | 13,4 | 28 | 16,4 | 35 | 4300 | 3750 | 30000 | | | | |
| | 28,16 | 15,1 | 32 | 18,4 | 39 | 4300 | 3750 | 30000 | | | | |
| | 25,16 | 16,9 | 36 | 20,6 | 44 | 4300 | 3750 | 30000 | | | | |
| | 22,57 | 18,8 | 40 | 23,0 | 49 | 4300 | 3750 | 30000 | | | | |
| | 20,32 | 20,9 | 44 | 25,5 | 54 | 4300 | 3750 | 30000 | | | | |
| | 18,37 | 23,1 | 49 | 28,2 | 60 | 4300 | 3750 | 30000 | | | | |
| | 16,58 | 25,6 | 54 | 31,3 | 66 | 4300 | 3750 | 30000 | | | | |
| | 15,02 | 28,2 | 60 | 34,5 | 73 | 4300 | 3750 | 30000 | | | | |
| | 17,69 | 23,6 | 51 | 28,9 | 62 | 4300 | 3750 | 25000 | İRA İRF İRAF | 102 | 301 302 303 | 200 203 225 |
| | 15,62 | 26,7 | 58 | 32,7 | 70 | 4300 | 3750 | 25000 | | | | |
| | 13,89 | 30,1 | 65 | 36,8 | 79 | 4300 | 3750 | 25000 | | | | |
| 12,41 | 33,7 | 73 | 41,1 | 89 | 4300 | 3750 | 25000 | | | | | |
| 10,59 | 39,5 | 85 | 48,2 | 104 | 4300 | 3750 | 25000 | | | | | |
| 9,457 | 44,2 | 95 | 54,0 | 116 | 4300 | 3750 | 25000 | | | | | |
| 8,485 | 49,2 | 106 | 60,2 | 130 | 4300 | 3750 | 25000 | | | | | |
| 7,638 | 54,7 | 118 | 66,8 | 144 | 4300 | 3750 | 25000 | | | | | |
| 7,144 | 58,5 | 126 | 71,5 | 154 | 4300 | 3750 | 25000 | | | | | |
| 6,382 | 65,4 | 141 | 80,0 | 172 | 4300 | 3750 | 25000 | | | | | |
| 5,726 | 72,9 | 157 | 89,2 | 192 | 4300 | 3750 | 25000 | | | | | |
| 5,154 | 81,0 | 175 | 99,0 | 213 | 4300 | 3750 | 21000 | | | | | |
| 4,652 | 89,8 | 193 | 110 | 236 | 4300 | 3750 | 21000 | | | | | |
| 4,207 | 99,3 | 214 | 121 | 261 | 4300 | 3750 | 21000 | | | | | |
| 3,723 | 112 | 242 | 137 | 295 | 4300 | 3750 | 21000 | | | | | |



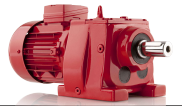
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | | | |
|--|-------------------------------------|--|--|--|---|---|--|---|---|------------------|-----|-----|---|------------------|-----|-----|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=900rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1100rpm$) | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 4300 Nm | 3,360 | 124 | 268 | 152 | 327 | 4300 | 3750 | 21000 | IRA IRF IRAF | 102 | 301 | 200 | | | | |
| | 3,039 | 137 | 296 | 168 | 362 | 4300 | 3750 | 21000 | | | 302 | 203 | | | | |
| | 2,752 | 152 | 327 | 185 | 400 | 4300 | 3750 | 19000 | | | 303 | 225 | | | | |
| | 2,495 | 167 | 361 | 205 | 441 | 4300 | 3750 | 19000 | | | | | | | | |
| | 2,263 | 185 | 398 | 226 | 486 | 4300 | 3750 | 19000 | | | | | | | | |
| 8000 Nm | 32309 | 0,03 | 0,03 | 0,03 | 0,03 | 8000 | 1200 | 52000 | IRA IRF IRAF | 123 IR 73 | 331 | 338 | | | | |
| | 28749 | 0,03 | 0,03 | 0,04 | 0,04 | 8000 | 1200 | 52000 | | | | | 332 | 340 | | |
| | 25807 | 0,03 | 0,03 | 0,04 | 0,04 | 8000 | 1200 | 52000 | | | | | 333 | 368 | | |
| | 23337 | 0,04 | 0,04 | 0,04 | 0,05 | 8000 | 1200 | 52000 | | | | | | | | |
| | 18918 | 0,04 | 0,05 | 0,05 | 0,06 | 8000 | 1200 | 52000 | | | | | | | | |
| | 17260 | 0,05 | 0,05 | 0,06 | 0,06 | 8000 | 1200 | 52000 | | | | | | | | |
| | 15494 | 0,05 | 0,06 | 0,07 | 0,07 | 8000 | 1200 | 52000 | | | | | | | | |
| | 13395 | 0,06 | 0,07 | 0,08 | 0,08 | 8000 | 1200 | 52000 | | | | | | | | |
| | 12113 | 0,07 | 0,07 | 0,08 | 0,09 | 8000 | 1200 | 52000 | | | | | | | | |
| | 11190 | 0,07 | 0,08 | 0,09 | 0,10 | 8000 | 1200 | 52000 | | | | | | | | |
| | 10209 | 0,08 | 0,09 | 0,10 | 0,11 | 8000 | 1200 | 52000 | | | | | | | | |
| | 9165 | 0,09 | 0,10 | 0,11 | 0,12 | 8000 | 1200 | 52000 | | | | | | | | |
| | 8288 | 0,10 | 0,11 | 0,12 | 0,13 | 8000 | 1200 | 52000 | | | | | | | | |
| | 7928 | 0,10 | 0,11 | 0,13 | 0,14 | 8000 | 1200 | 52000 | | | | | | | | |
| | 6426 | 0,13 | 0,14 | 0,16 | 0,17 | 8000 | 1200 | 52000 | | | | | | | | |
| | 5863 | 0,14 | 0,15 | 0,17 | 0,19 | 8000 | 1200 | 52000 | | | | | | | | |
| | 5263 | 0,16 | 0,17 | 0,19 | 0,21 | 8000 | 1200 | 52000 | | | | | | | | |
| | 4759 | 0,17 | 0,19 | 0,21 | 0,23 | 8000 | 1200 | 52000 | | | | | | | | |
| | 4059 | 0,20 | 0,22 | 0,24 | 0,27 | 8000 | 1200 | 52000 | | | | | | | | |
| | 3671 | 0,22 | 0,25 | 0,27 | 0,30 | 8000 | 1200 | 52000 | | | | | IRA IRF IRAF | 122 IR 73 | 331 | 309 |
| | 3509 | 0,23 | 0,26 | 0,28 | 0,31 | 8000 | 1200 | 52000 | | | | | | | 332 | 311 |
| | 3173 | 0,26 | 0,28 | 0,31 | 0,35 | 8000 | 1200 | 52000 | | | | | | | 333 | 339 |
| | 2829 | 0,29 | 0,32 | 0,35 | 0,39 | 8000 | 1200 | 52000 | | | | | | | | |
| | 2517 | 0,32 | 0,36 | 0,39 | 0,44 | 8000 | 1200 | 52000 | | | | | | | | |
| | 2260 | 0,36 | 0,40 | 0,44 | 0,49 | 8000 | 1200 | 52000 | | | | | | | | |
| | 2043 | 0,40 | 0,44 | 0,49 | 0,54 | 8000 | 1200 | 52000 | | | | | IRA IRF IRAF | 123 IR 72 | 331 | 336 |
| | 1657 | 0,49 | 0,54 | 0,60 | 0,66 | 8000 | 1200 | 52000 | | | | | | | 332 | 338 |
| | 1511 | 0,54 | 0,60 | 0,66 | 0,73 | 8000 | 1200 | 52000 | | | | | | | 333 | 366 |
| | 1357 | 0,60 | 0,66 | 0,73 | 0,81 | 8000 | 1200 | 52000 | | | | | | | | |
| | 1227 | 0,66 | 0,73 | 0,81 | 0,90 | 8000 | 1200 | 52000 | | | | | | | | |
| | 1025 | 0,79 | 0,88 | 0,97 | 1,07 | 8000 | 1200 | 52000 | | | | | | | | |
| | 902 | 0,90 | 1,00 | 1,1 | 1,22 | 8000 | 1200 | 52000 | | | | | | | | |
| | 883 | 0,91 | 1,02 | 1,1 | 1,25 | 8000 | 1200 | 52000 | | | | | | | | |
| | 799 | 1,0 | 1,13 | 1,2 | 1,38 | 8000 | 1200 | 52000 | | | | | | | | |
| | 647 | 1,2 | 1,39 | 1,5 | 1,70 | 8000 | 1200 | 52000 | | | | | | | | |
| 591 | 1,4 | 1,52 | 1,7 | 1,86 | 8000 | 1200 | 52000 | | | | | | | | | |
| 530 | 1,5 | 1,70 | 1,8 | 2,07 | 8000 | 1200 | 52000 | | | | | | | | | |
| 479 | 1,7 | 1,88 | 2,0 | 2,29 | 8000 | 1200 | 52000 | IRA IRF IRAF | 124 | 325 | 389 | | | | | |
| 400 | 2,0 | 2,25 | 2,4 | 2,75 | 8000 | 1200 | 52000 | | | 326 | 391 | | | | | |
| 352 | 2,3 | 2,55 | 2,8 | 3,12 | 8000 | 1200 | 52000 | | | 327 | 419 | | | | | |
| 313 | 2,6 | 2,88 | 3,1 | 3,52 | 8000 | 1200 | 52000 | | | | | | | | | |
| 279 | 2,9 | 3,22 | 3,5 | 3,94 | 8000 | 1200 | 52000 | | | | | | | | | |
| 251 | 3,2 | 3,59 | 3,9 | 4,38 | 8000 | 1200 | 52000 | | | | | | | | | |
| 226 | 3,5 | 3,97 | 4,3 | 4,86 | 8000 | 1200 | 52000 | | | | | | | | | |
| 215 | 3,7 | 4,18 | 4,6 | 5,11 | 8000 | 1200 | 52000 | | | | | | | | | |
| 209 | 3,8 | 4,30 | 4,6 | 5,26 | 8000 | 3750 | 41000 | | | | | | | | | |
| 186 | 4,2 | 4,84 | 5,2 | 5,91 | 8000 | 3750 | 41000 | | | | | | | | | |
| 167 | 4,7 | 5,39 | 5,8 | 6,58 | 8000 | 3750 | 41000 | IRA IRF IRAF | 123 | 319 | 323 | | | | | |
| 151 | 5,2 | 5,96 | 6,4 | 7,28 | 8000 | 3750 | 41000 | | | 320 | 325 | | | | | |
| 122 | 6,4 | 7,35 | 7,9 | 8,98 | 8000 | 3750 | 41000 | | | 321 | 353 | | | | | |
| 112 | 7,1 | 8,05 | 8,6 | 9,84 | 8000 | 3750 | 41000 | | | | | | | | | |
| 100 | 7,9 | 8,97 | 9,6 | 11 | 8000 | 3750 | 41000 | | | | | | | | | |



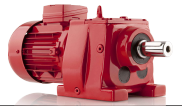
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|-----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 8000 Nm | 90,71 | 8,7 | 9,92 | 10,6 | 12 | 8000 | 3750 | 41000 | İRA İRF İRAF | 123 | 319 320 321 | 323 325 353 |
| | 75,77 | 10,4 | 12 | 12,7 | 15 | 8000 | 3750 | 41000 | | | | |
| | 66,67 | 11,8 | 13 | 14,5 | 16 | 8000 | 3750 | 41000 | | | | |
| | 59,16 | 13,3 | 15 | 16,3 | 19 | 8000 | 3750 | 39700 | | | | |
| | 52,85 | 14,9 | 17 | 18,2 | 21 | 8000 | 3750 | 39700 | | | | |
| | 47,47 | 16,6 | 19 | 20,3 | 23 | 8000 | 3750 | 39700 | | | | |
| | 42,84 | 18,4 | 21 | 22,5 | 26 | 8000 | 3750 | 39700 | | | | |
| | 40,70 | 19,4 | 22 | 23,7 | 27 | 8000 | 3750 | 39700 | | | | |
| | 36,11 | 21,8 | 25 | 26,7 | 30 | 8000 | 3750 | 39700 | | | | |
| | 32,26 | 24,5 | 28 | 29,9 | 34 | 8000 | 3750 | 39700 | | | | |
| | 28,98 | 27,2 | 31 | 33,3 | 38 | 8000 | 3750 | 39700 | | | | |
| | 26,15 | 30,2 | 34 | 36,9 | 42 | 8000 | 3750 | 39700 | | | | |
| | 23,69 | 33,3 | 38 | 40,7 | 46 | 8000 | 3750 | 39700 | | | | |
| | 21,52 | 36,7 | 42 | 44,8 | 51 | 8000 | 3750 | 39700 | | | | |
| | 19,60 | 40,2 | 46 | 49,2 | 56 | 8000 | 3750 | 39700 | | | | |
| | 17,89 | 44,1 | 50 | 53,9 | 61 | 8000 | 3750 | 39700 | | | | |
| | 26,28 | 29,6 | 34 | 36,1 | 42 | 8000 | 3750 | 45000 | | | | |
| | 23,77 | 32,7 | 38 | 40,0 | 46 | 8000 | 3750 | 45000 | | | | |
| | 19,85 | 39,1 | 45 | 47,8 | 55 | 8000 | 3750 | 45000 | | | | |
| | 17,47 | 44,5 | 52 | 54,4 | 63 | 8000 | 3750 | 45000 | | | | |
| | 15,50 | 50,1 | 58 | 61,3 | 71 | 8000 | 3750 | 45000 | | | | |
| | 13,85 | 56,1 | 65 | 68,6 | 79 | 8000 | 3750 | 45000 | | | | |
| | 12,44 | 62,5 | 72 | 76,4 | 88 | 8000 | 3750 | 45000 | | | | |
| | 11,50 | 67,6 | 78 | 82,6 | 96 | 8000 | 3750 | 45000 | | | | |
| | 10,20 | 76,2 | 88 | 93,1 | 108 | 8000 | 3750 | 45000 | | | | |
| | 9,112 | 85,3 | 99 | 104 | 121 | 8000 | 3750 | 45000 | | | | |
| | 8,185 | 94,9 | 110 | 116 | 134 | 8000 | 3750 | 45000 | | | | |
| | 7,724 | 101 | 117 | 123 | 142 | 8000 | 3750 | 45000 | | | | |
| | 6,938 | 112 | 130 | 137 | 159 | 8000 | 3750 | 45000 | | | | |
| | 6,261 | 124 | 144 | 152 | 176 | 8000 | 3750 | 45000 | | | | |
| 5,671 | 137 | 159 | 167 | 194 | 8000 | 3750 | 45000 | | | | | |
| 5,153 | 151 | 175 | 184 | 213 | 8000 | 3750 | 45000 | | | | | |
| 4,694 | 166 | 192 | 202 | 234 | 8000 | 3750 | 45000 | | | | | |
| 4,284 | 181 | 210 | 222 | 257 | 8000 | 3750 | 45000 | | | | | |
| 3,917 | 198 | 230 | 242 | 281 | 8000 | 3750 | 45000 | | | | | |
| 3,585 | 217 | 251 | 265 | 307 | 8000 | 3750 | 45000 | | | | | |
| 3,284 | 237 | 274 | 289 | 335 | 8000 | 3750 | 45000 | | | | | |
| 13000 Nm | 537 | 2,5 | 1,68 | 3,0 | 2,05 | 13000 | 1550 | 60000 | İRA İRF İRAF | 143 İR 82 | 355 356 357 | 587 601 627 |
| | 443 | 3,0 | 2,03 | 3,6 | 2,48 | 13000 | 1550 | 60000 | | | | |
| | 398 | 3,3 | 2,26 | 4,1 | 2,76 | 13000 | 1550 | 60000 | | | | |
| | 359 | 3,7 | 2,51 | 4,5 | 3,06 | 13000 | 1550 | 60000 | | | | |
| | 331 | 4,0 | 2,72 | 4,9 | 3,32 | 13000 | 1550 | 60000 | | | | |
| | 277 | 4,8 | 3,25 | 5,8 | 3,97 | 13000 | 1550 | 60000 | | | | |
| | 249 | 5,3 | 3,61 | 6,5 | 4,42 | 13000 | 1550 | 60000 | | | | |
| | 225 | 5,9 | 4,00 | 7,2 | 4,89 | 13000 | 1550 | 60000 | | | | |
| | 207 | 6,4 | 4,35 | 7,8 | 5,31 | 13000 | 1550 | 60000 | | | | |
| | 187 | 7,1 | 4,81 | 8,6 | 5,88 | 13000 | 1550 | 60000 | | | | |
| | 157 | 8,4 | 5,73 | 10,3 | 7,01 | 13000 | 1550 | 60000 | | | | |
| | 24943 | 0,05 | 0,04 | 0,07 | 0,04 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | 349 350 351 | 513 527 553 |
| | 21564 | 0,06 | 0,04 | 0,08 | 0,05 | 13000 | 1200 | 60000 | | | | |
| | 19545 | 0,07 | 0,05 | 0,08 | 0,06 | 13000 | 1200 | 60000 | | | | |
| | 17730 | 0,08 | 0,05 | 0,09 | 0,06 | 13000 | 1200 | 60000 | | | | |
| | 15134 | 0,09 | 0,06 | 0,11 | 0,07 | 13000 | 1200 | 60000 | | | | |
| | 13372 | 0,10 | 0,07 | 0,12 | 0,08 | 13000 | 1200 | 60000 | | | | |
| | 12131 | 0,11 | 0,07 | 0,14 | 0,09 | 13000 | 1200 | 60000 | | | | |
| | 10788 | 0,12 | 0,08 | 0,15 | 0,10 | 13000 | 1200 | 60000 | | | | |
| | 9446 | 0,14 | 0,10 | 0,17 | 0,12 | 13000 | 1200 | 60000 | | | | |



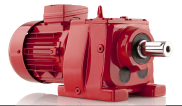
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|--|--|---|---|--|---|---------------------|-------------------|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=900rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=1100rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 13000 Nm | 8427 | 0,16 | 0,11 | 0,19 | 0,13 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | 349 350 351 | 513 527 553 |
| | 7474 | 0,18 | 0,12 | 0,22 | 0,15 | 13000 | 1200 | 60000 | | | | |
| | 6732 | 0,20 | 0,13 | 0,24 | 0,16 | 13000 | 1200 | 60000 | | | | |
| | 5907 | 0,23 | 0,15 | 0,28 | 0,19 | 13000 | 1200 | 60000 | | | | |
| | 5425 | 0,25 | 0,17 | 0,30 | 0,20 | 13000 | 1200 | 60000 | | | | |
| | 4839 | 0,28 | 0,19 | 0,34 | 0,23 | 13000 | 1200 | 60000 | | | | |
| | 4347 | 0,31 | 0,21 | 0,38 | 0,25 | 13000 | 1200 | 60000 | | | | |
| | 3814 | 0,35 | 0,24 | 0,43 | 0,29 | 13000 | 1200 | 60000 | | | | |
| | 3404 | 0,39 | 0,26 | 0,48 | 0,32 | 13000 | 1200 | 60000 | | | | |
| | 3026 | 0,44 | 0,30 | 0,54 | 0,36 | 13000 | 1200 | 60000 | | | | |
| | 2717 | 0,49 | 0,33 | 0,60 | 0,40 | 13000 | 1200 | 60000 | | | | |
| | 2184 | 0,60 | 0,41 | 0,74 | 0,50 | 13000 | 1200 | 60000 | | | | |
| | 1979 | 0,67 | 0,45 | 0,82 | 0,56 | 13000 | 1200 | 60000 | | | | |
| | 1759 | 0,75 | 0,51 | 0,92 | 0,63 | 13000 | 1200 | 60000 | | | | |
| | 1596 | 0,83 | 0,56 | 1,0 | 0,69 | 13000 | 1200 | 60000 | | | | |
| | 1365 | 0,97 | 0,66 | 1,2 | 0,81 | 13000 | 1200 | 60000 | | | | |
| | 1110 | 1,2 | 0,81 | 1,5 | 0,99 | 13000 | 1200 | 60000 | | | | |
| | 990 | 1,3 | 0,91 | 1,6 | 1,11 | 13000 | 1200 | 60000 | | | | |
| | 889 | 1,5 | 1,01 | 1,8 | 1,24 | 13000 | 1200 | 60000 | | | | |
| | 780 | 1,7 | 1,15 | 2,1 | 1,41 | 13000 | 1200 | 60000 | | | | |
| | 696 | 1,9 | 1,29 | 2,3 | 1,58 | 13000 | 1200 | 60000 | | | | |
| | 595 | 2,2 | 1,51 | 2,7 | 1,85 | 13000 | 1200 | 60000 | | | | |
| | 546 | 2,4 | 1,65 | 2,9 | 2,02 | 13000 | 1200 | 60000 | | | | |
| | 488 | 2,7 | 1,85 | 3,3 | 2,26 | 13000 | 1200 | 60000 | | | | |
| | 438 | 3,0 | 2,05 | 3,6 | 2,51 | 13000 | 1200 | 60000 | | | | |
| | 384 | 3,4 | 2,34 | 4,1 | 2,86 | 13000 | 1200 | 60000 | | | | |
| | 345 | 3,8 | 2,61 | 4,6 | 3,19 | 13000 | 1200 | 60000 | | | | |
| | 308 | 4,2 | 2,93 | 5,2 | 3,58 | 13000 | 1200 | 60000 | | | | |
| | 276 | 4,7 | 3,26 | 5,8 | 3,99 | 13000 | 1200 | 60000 | | | | |
| | 263 | 4,9 | 3,42 | 6,0 | 4,18 | 13000 | 1200 | 60000 | | | | |
| | 236 | 5,5 | 3,81 | 6,7 | 4,66 | 13000 | 1200 | 60000 | | | | |
| | 213 | 6,1 | 4,23 | 7,5 | 5,17 | 13000 | 1200 | 60000 | | | | |
| | 192 | 6,8 | 4,68 | 8,3 | 5,72 | 13000 | 1200 | 60000 | | | | |
| | 175 | 7,5 | 5,15 | 9,1 | 6,30 | 13000 | 1200 | 60000 | | | | |
| | 161 | 7,9 | 5,57 | 9,7 | 6,81 | 13000 | 3750 | 60000 | | | | |
| | 146 | 8,8 | 6,15 | 10,7 | 7,52 | 13000 | 3750 | 60000 | | | | |
| | 133 | 9,7 | 6,78 | 11,8 | 8,28 | 13000 | 3750 | 60000 | | | | |
| | 103 | 12,4 | 8,70 | 15,2 | 11 | 13000 | 3750 | 60000 | | | | |
| | 92,24 | 13,9 | 9,76 | 17,0 | 12 | 13000 | 3750 | 60000 | | | | |
| | 82,86 | 15,5 | 11 | 18,9 | 13 | 13000 | 3750 | 60000 | | | | |
| | 72,71 | 17,6 | 12 | 21,6 | 15 | 13000 | 3750 | 60000 | | | | |
| | 64,89 | 19,8 | 14 | 24,1 | 17 | 13000 | 3750 | 60000 | | | | |
| | 58,24 | 22,0 | 15 | 26,9 | 19 | 13000 | 3750 | 60000 | | | | |
| | 55,48 | 23,1 | 16 | 28,2 | 20 | 13000 | 3750 | 60000 | | | | |
| | 49,79 | 25,7 | 18 | 31,5 | 22 | 13000 | 3750 | 60000 | | | | |
| 44,88 | 28,6 | 20 | 34,9 | 25 | 13000 | 3750 | 60000 | | | | | |
| 40,61 | 31,6 | 22 | 38,6 | 27 | 13000 | 3750 | 60000 | | | | | |
| 36,86 | 34,8 | 24 | 42,5 | 30 | 13000 | 3750 | 60000 | | | | | |
| 33,53 | 38,2 | 27 | 46,7 | 33 | 13000 | 3750 | 60000 | | | | | |
| 27,90 | 45,9 | 32 | 56,2 | 39 | 13000 | 3750 | 60000 | | | | | |
| 23,32 | 55,0 | 39 | 67,2 | 47 | 13000 | 3750 | 60000 | | | | | |
| 20,02 | 64,0 | 45 | 78,3 | 55 | 13000 | 3750 | 60000 | | | | | |
| 20,02 | 63,1 | 45 | 77,1 | 55 | 13000 | 3750 | 60000 | | | | | |
| 18,16 | 69,5 | 50 | 85,0 | 61 | 13000 | 3750 | 60000 | | | | | |
| 16,20 | 77,9 | 56 | 95,2 | 68 | 13000 | 3750 | 60000 | | | | | |
| 14,56 | 86,7 | 62 | 106 | 76 | 13000 | 3750 | 60000 | | | | | |
| 12,77 | 98,9 | 70 | 121 | 86 | 13000 | 3750 | 60000 | | | | | |
| | | | | | | | | İRA İRF İRAF | 143 | 337 338 339 | 526 540 566 | |
| | | | | | | | | İRA İRF İRAF | 142 | 337 338 339 | 476 490 516 | |



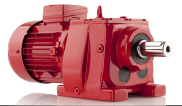
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------------|------------|--|-------------------|----------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 13000 Nm | 11,40 | 111 | 79 | 135 | 96 | 13000 | 3750 | 60000 | İRA İRF İRAF | 142 | | 337 338 339 | 476 490 516 |
| | 10,23 | 123 | 88 | 151 | 108 | 13000 | 3750 | 60000 | | | | | |
| | 9,222 | 137 | 98 | 167 | 119 | 13000 | 3750 | 60000 | | | | | |
| | 8,344 | 151 | 108 | 185 | 132 | 13000 | 3750 | 60000 | | | | | |
| | 7,573 | 167 | 119 | 204 | 145 | 13000 | 3750 | 60000 | | | | | |
| | 6,890 | 183 | 131 | 224 | 160 | 13000 | 3750 | 60000 | | | | | |
| | 5,733 | 220 | 157 | 269 | 192 | 13000 | 3750 | 60000 | | | | | |
| 4,792 | 264 | 188 | 322 | 230 | 13000 | 3750 | 60000 | | | | | | |
| 18000 Nm | 7067 | 0,26 | 0,13 | 0,32 | 0,16 | 18000 | 3750 | 110000 | İRA İRF İRAF | 153 İR 103 | | 379 380 381 | 1170 1220 1240 |
| | 6223 | 0,29 | 0,14 | 0,36 | 0,18 | 18000 | 3750 | 110000 | | | | | |
| | 5577 | 0,33 | 0,16 | 0,40 | 0,20 | 18000 | 3750 | 110000 | | | | | |
| | 5035 | 0,36 | 0,18 | 0,44 | 0,22 | 18000 | 3750 | 110000 | | | | | |
| | 4570 | 0,40 | 0,20 | 0,49 | 0,24 | 18000 | 3750 | 110000 | | | | | |
| | 3586 | 0,51 | 0,25 | 0,62 | 0,31 | 18000 | 3750 | 110000 | | | | | |
| | 3205 | 0,57 | 0,28 | 0,70 | 0,34 | 18000 | 3750 | 110000 | | | | | |
| | 2588 | 0,71 | 0,35 | 0,86 | 0,43 | 18000 | 3750 | 110000 | | | | | |
| | 27213 | 0,07 | 0,03 | 0,08 | 0,04 | 18000 | 2500 | 110000 | | | | | |
| | 23722 | 0,08 | 0,04 | 0,10 | 0,05 | 18000 | 2500 | 110000 | | | | | |
| | 19875 | 0,09 | 0,05 | 0,11 | 0,06 | 18000 | 2500 | 110000 | | | | | |
| | 17651 | 0,11 | 0,05 | 0,13 | 0,06 | 18000 | 2500 | 110000 | | | | | |
| | 16020 | 0,12 | 0,06 | 0,14 | 0,07 | 18000 | 2500 | 110000 | | | | | |
| | 14354 | 0,13 | 0,06 | 0,16 | 0,08 | 18000 | 2500 | 110000 | | | | | |
| | 13011 | 0,14 | 0,07 | 0,17 | 0,08 | 18000 | 2500 | 110000 | | | | | |
| | 11306 | 0,16 | 0,08 | 0,20 | 0,10 | 18000 | 2500 | 110000 | | | | | |
| | 9958 | 0,19 | 0,09 | 0,23 | 0,11 | 18000 | 2500 | 110000 | | | | | |
| | 8987 | 0,21 | 0,10 | 0,25 | 0,12 | 18000 | 2500 | 110000 | | | | | |
| | 7647 | 0,24 | 0,12 | 0,30 | 0,14 | 18000 | 2500 | 110000 | | | | | |
| | 6643 | 0,28 | 0,14 | 0,34 | 0,17 | 18000 | 2500 | 110000 | | | | | |
| | 6078 | 0,31 | 0,15 | 0,37 | 0,18 | 18000 | 2500 | 110000 | | | | | |
| | 5519 | 0,34 | 0,16 | 0,41 | 0,20 | 18000 | 2500 | 110000 | | | | | |
| | 4312 | 0,43 | 0,21 | 0,53 | 0,26 | 18000 | 2500 | 110000 | | | | | |
| | 3704 | 0,50 | 0,24 | 0,61 | 0,30 | 18000 | 2500 | 110000 | | | | | |
| | 3098 | 0,60 | 0,29 | 0,73 | 0,36 | 18000 | 2500 | 110000 | | | | | |
| | 2596 | 0,70 | 0,35 | 0,86 | 0,42 | 18000 | 2500 | 110000 | | | | | |
| | 2288 | 0,80 | 0,39 | 0,98 | 0,48 | 18000 | 2500 | 110000 | | | | | |
| | 2033 | 0,90 | 0,44 | 1,1 | 0,54 | 18000 | 2500 | 110000 | | | | | |
| | 1819 | 1,0 | 0,49 | 1,2 | 0,60 | 18000 | 2500 | 110000 | | | | | |
| | 1637 | 1,1 | 0,55 | 1,4 | 0,67 | 18000 | 2500 | 110000 | | | | | |
| | 1371 | 1,3 | 0,66 | 1,6 | 0,80 | 18000 | 2500 | 110000 | | | | | |
| | 1240 | 1,5 | 0,73 | 1,8 | 0,89 | 18000 | 2500 | 110000 | | | | | |
| | 1024 | 1,8 | 0,88 | 2,2 | 1,07 | 18000 | 2500 | 110000 | | | | | |
| | 825 | 2,2 | 1,09 | 2,7 | 1,33 | 18000 | 2500 | 110000 | | | | | |
| | 784 | 2,3 | 1,15 | 2,8 | 1,40 | 18000 | 2500 | 110000 | | | | | |
| 695 | 2,6 | 1,29 | 3,2 | 1,58 | 18000 | 2500 | 110000 | | | | | | |
| 612 | 2,9 | 1,47 | 3,6 | 1,80 | 18000 | 2500 | 110000 | | | | | | |
| 549 | 3,3 | 1,64 | 4,0 | 2,00 | 18000 | 2500 | 110000 | | | | | | |
| 495 | 3,6 | 1,82 | 4,4 | 2,22 | 18000 | 2500 | 110000 | | | | | | |
| 432 | 4,2 | 2,08 | 5,1 | 2,55 | 18000 | 2500 | 110000 | | | | | | |
| 362 | 5,0 | 2,49 | 6,1 | 3,04 | 18000 | 2500 | 110000 | | | | | | |
| 321 | 5,6 | 2,80 | 6,9 | 3,42 | 18000 | 2500 | 110000 | | | | | | |
| 292 | 6,2 | 3,09 | 7,6 | 3,77 | 18000 | 2500 | 110000 | | | | | | |
| 264 | 6,8 | 3,40 | 8,3 | 4,16 | 18000 | 2500 | 110000 | | | | | | |
| 230 | 7,8 | 3,92 | 9,6 | 4,79 | 18000 | 2500 | 110000 | | | | | | |
| 222 | 8,0 | 4,06 | 9,8 | 4,96 | 18000 | 5250 | 110000 | | | | | | |
| 202 | 8,8 | 4,46 | 10,8 | 5,46 | 18000 | 5250 | 110000 | | | | | | |
| 179 | 9,9 | 5,03 | 12,1 | 6,15 | 18000 | 5250 | 110000 | | | | | | |
| 157 | 11,3 | 5,72 | 13,8 | 6,99 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 154 | | 367 368 369 | 1037 1069 1089 |
| | | | | | | | | | İRA İRF İRAF | 153 | | 361 362 363 | 1006 1056 1076 |



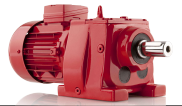
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|---|---|--|---|--------------|--------------------|-----|----|------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=900rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=1100rpm$) | | | | | | | | | |
| | | 18000 Nm | 141 | 12,6 | 6,38 | | | | | | | | 15,4 | 7,80 |
| 127 | 13,9 | | 7,06 | 17,0 | 8,63 | 18000 | 5250 | 110000 | | | | | | |
| 111 | 16,0 | | 8,10 | 19,5 | 9,90 | 18000 | 5250 | 110000 | | | | | | |
| 93,05 | 19,1 | | 9,67 | 23,3 | 12 | 18000 | 5250 | 110000 | | | | | | |
| 82,63 | 21,5 | | 11 | 26,3 | 13 | 18000 | 5250 | 110000 | | | | | | |
| 75,00 | 23,7 | | 12 | 28,9 | 15 | 18000 | 5250 | 110000 | | | | | | |
| 67,98 | 26,1 | | 13 | 31,9 | 16 | 18000 | 5250 | 110000 | | | | | | |
| 59,07 | 30,0 | | 15 | 36,7 | 19 | 18000 | 5250 | 110000 | | | | | | |
| 52,03 | 34,1 | | 17 | 41,7 | 21 | 18000 | 5250 | 110000 | | | | | | |
| 44,27 | 40,1 | | 20 | 49,0 | 25 | 18000 | 5250 | 110000 | | | | | | |
| 38,46 | 46,1 | | 23 | 56,4 | 29 | 18000 | 5250 | 110000 | | | | | | |
| 35,19 | 50,4 | | 26 | 61,6 | 31 | 18000 | 5250 | 110000 | | | | | | |
| 27,50 | 64,6 | | 33 | 78,9 | 40 | 18000 | 5250 | 110000 | | | | | | |
| 23,62 | 75,2 | | 38 | 91,9 | 47 | 18000 | 5250 | 110000 | | | | | | |
| 28,55 | 62,2 | | 32 | 76,0 | 39 | 18000 | 5250 | 110000 | | | | | | |
| 25,93 | 68,5 | | 35 | 83,7 | 42 | 18000 | 5250 | 110000 | | | | | | |
| 23,57 | 75,3 | | 38 | 92,0 | 47 | 18000 | 5250 | 110000 | | | | | | |
| 21,09 | 84,2 | | 43 | 103 | 52 | 18000 | 5250 | 110000 | | | | | | |
| 19,00 | 93,4 | | 47 | 114 | 58 | 18000 | 5250 | 110000 | | | | | | |
| 17,22 | 103 | | 52 | 126 | 64 | 18000 | 5250 | 110000 | | | | | | |
| 15,69 | 113 | | 57 | 138 | 70 | 18000 | 5250 | 110000 | | | | | | |
| 14,35 | 124 | | 63 | 151 | 77 | 18000 | 5250 | 110000 | | | | | | |
| 11,22 | 158 | | 80 | 193 | 98 | 18000 | 5250 | 110000 | | | | | | |
| 10,70 | 166 | | 84 | 203 | 103 | 18000 | 5250 | 110000 | | | | | | |
| 9,744 | 182 | | 92 | 223 | 113 | 18000 | 5250 | 110000 | | | | | | |
| 8,915 | 199 | | 101 | 243 | 123 | 18000 | 5250 | 110000 | | | | | | |
| 8,186 | 217 | | 110 | 265 | 134 | 18000 | 5250 | 110000 | | | | | | |
| 6,965 | 255 | | 129 | 311 | 158 | 18000 | 5250 | 110000 | | | | | | |
| 5,983 | 297 | | 150 | 363 | 184 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | | îRA îRF îRAF | 152 | | | 361 362 363 |



| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 85 Nm | 81,37 | 0,08 | 8,60 | 0,10 | 10 | 85 | 390 | 2100 | İRA İRF İRAF | 43 | 175 176 177 | 10 11 12 |
| | 70,05 | 0,09 | 9,99 | 0,11 | 12 | 85 | 390 | 2100 | | | | |
| | 60,90 | 0,11 | 11 | 0,13 | 14 | 85 | 390 | 2100 | | | | |
| | 53,33 | 0,12 | 13 | 0,15 | 16 | 85 | 390 | 2100 | | | | |
| | 46,98 | 0,14 | 15 | 0,17 | 18 | 85 | 390 | 2100 | | | | |
| | 41,85 | 0,16 | 17 | 0,19 | 20 | 85 | 390 | 2100 | | | | |
| | 36,38 | 0,18 | 19 | 0,22 | 23 | 85 | 390 | 2100 | | | | |
| | 31,86 | 0,20 | 22 | 0,25 | 27 | 85 | 390 | 2100 | | | | |
| | 28,06 | 0,23 | 25 | 0,28 | 30 | 85 | 390 | 2100 | | | | |
| | 26,19 | 0,25 | 27 | 0,30 | 32 | 85 | 390 | 2100 | | | | |
| | 24,83 | 0,26 | 28 | 0,32 | 34 | 85 | 390 | 2000 | | | | |
| | 22,62 | 0,29 | 31 | 0,35 | 38 | 85 | 390 | 2000 | | | | |
| | 21,11 | 0,31 | 33 | 0,38 | 40 | 85 | 390 | 2000 | | | | |
| | 20,01 | 0,33 | 35 | 0,40 | 42 | 85 | 390 | 2000 | | | | |
| | 18,59 | 0,35 | 38 | 0,43 | 46 | 85 | 390 | 2000 | | | | |
| | 17,76 | 0,37 | 39 | 0,45 | 48 | 85 | 390 | 1850 | | | | |
| | 16,45 | 0,40 | 43 | 0,48 | 52 | 85 | 390 | 1850 | | | | |
| | 15,81 | 0,41 | 44 | 0,50 | 54 | 85 | 390 | 1850 | | | | |
| | 14,60 | 0,45 | 48 | 0,54 | 58 | 85 | 390 | 1850 | | | | |
| | 14,09 | 0,46 | 50 | 0,56 | 60 | 85 | 390 | 1800 | | | | |
| | 13,00 | 0,50 | 54 | 0,61 | 65 | 85 | 390 | 1800 | | | | |
| | 11,58 | 0,56 | 60 | 0,68 | 73 | 85 | 390 | 1800 | | | | |
| | 11,24 | 0,57 | 62 | 0,69 | 76 | 85 | 390 | 800 | | | | |
| | 9,845 | 0,65 | 71 | 0,79 | 86 | 85 | 390 | 800 | | | | |
| | 8,672 | 0,74 | 81 | 0,90 | 98 | 85 | 390 | 800 | | | | |
| | 7,673 | 0,84 | 91 | 1,0 | 111 | 85 | 390 | 750 | | | | |
| | 6,872 | 0,93 | 102 | 1,1 | 124 | 85 | 390 | 750 | | | | |
| | 6,080 | 1,1 | 115 | 1,3 | 140 | 85 | 390 | 750 | | | | |
| | 5,538 | 1,2 | 126 | 1,4 | 153 | 85 | 390 | 750 | | | | |
| | 5,398 | 1,2 | 130 | 1,4 | 157 | 85 | 390 | 750 | | | | |
| | 4,900 | 1,3 | 143 | 1,6 | 173 | 85 | 390 | 750 | | | | |
| | 4,803 | 1,3 | 146 | 1,6 | 177 | 85 | 390 | 750 | | | | |
| 4,350 | 1,5 | 161 | 1,8 | 195 | 85 | 390 | 750 | | | | | |
| 4,280 | 1,5 | 164 | 1,8 | 199 | 85 | 390 | 750 | | | | | |
| 3,870 | 1,7 | 181 | 2,0 | 220 | 85 | 390 | 750 | | | | | |
| 3,449 | 1,9 | 203 | 2,3 | 246 | 85 | 390 | 750 | | | | | |
| 150 Nm | 8598 | 0,00 | 0,08 | 0,00 | 0,10 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 43 | 187 188 189 | 26 28 29 |
| | 7402 | 0,00 | 0,09 | 0,00 | 0,11 | 150 | 390 | 4250 | | | | |
| | 6435 | 0,00 | 0,11 | 0,00 | 0,13 | 150 | 390 | 4250 | | | | |
| | 5419 | 0,00 | 0,13 | 0,00 | 0,16 | 150 | 390 | 4250 | | | | |
| | 4699 | 0,00 | 0,15 | 0,00 | 0,18 | 150 | 390 | 4250 | | | | |
| | 4117 | 0,00 | 0,17 | 0,00 | 0,21 | 150 | 390 | 4250 | | | | |
| | 3338 | 0,00 | 0,21 | 0,00 | 0,25 | 150 | 390 | 4250 | | | | |
| | 2948 | 0,00 | 0,24 | 0,00 | 0,29 | 150 | 390 | 4250 | | | | |
| | 2679 | 0,00 | 0,26 | 0,01 | 0,32 | 150 | 390 | 4250 | | | | |
| | 2346 | 0,01 | 0,30 | 0,01 | 0,36 | 150 | 390 | 4250 | | | | |
| | 2085 | 0,01 | 0,34 | 0,01 | 0,41 | 150 | 390 | 4250 | | | | |
| | 1863 | 0,01 | 0,38 | 0,01 | 0,46 | 150 | 390 | 4250 | | | | |
| | 1641 | 0,01 | 0,43 | 0,01 | 0,52 | 150 | 390 | 4250 | | | | |
| | 1462 | 0,01 | 0,48 | 0,01 | 0,58 | 150 | 390 | 4250 | | | | |
| | 1271 | 0,01 | 0,55 | 0,01 | 0,67 | 150 | 390 | 4250 | | | | |
| | 1204 | 0,01 | 0,58 | 0,01 | 0,71 | 150 | 390 | 4250 | | | | |
| | 1046 | 0,01 | 0,67 | 0,01 | 0,81 | 150 | 390 | 4250 | | | | |
| | 917 | 0,01 | 0,76 | 0,02 | 0,93 | 150 | 390 | 4250 | | | | |
| | 809 | 0,01 | 0,87 | 0,02 | 1,05 | 150 | 390 | 4250 | | | | |
| | | | | | | | | | | | | |



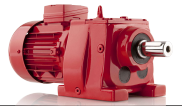
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | | | |
|--|-------------------------------------|--|--|--|--|---|--|---|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=700rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=850rpm$) | | | | | | | | | | | |
| | | 150 Nm | 709 | 0,02 | 0,99 | | | | | | | | 0,02 | 1,20 | 150 | 390 |
| 630 | 0,02 | | 1,11 | 0,02 | 1,35 | 150 | 390 | 4250 | 188 | 27 | | | | | | |
| 555 | 0,02 | | 1,26 | 0,03 | 1,53 | 150 | 390 | 4250 | 189 | 28 | | | | | | |
| 496 | 0,02 | | 1,41 | 0,03 | 1,71 | 150 | 390 | 4250 | İRA İRF İRAF | 53 İR 42 | 187 | 25 | | | | |
| 1188 | 0,01 | | 0,59 | 0,01 | 0,72 | 150 | 390 | 4250 | | | 188 | 27 | | | | |
| 1040 | 0,01 | | 0,67 | 0,01 | 0,82 | 150 | 390 | 4250 | | | 189 | 28 | | | | |
| 916 | 0,01 | | 0,76 | 0,02 | 0,93 | 150 | 390 | 4250 | | | İRA İRF İRAF | 52 İR 42 | 187 | 24 | | |
| 878 | 0,01 | | 0,80 | 0,02 | 0,97 | 150 | 390 | 4250 | | | | | 188 | 26 | | |
| 772 | 0,02 | | 0,91 | 0,02 | 1,10 | 150 | 390 | 4250 | | | | | 189 | 27 | | |
| 669 | 0,02 | | 1,05 | 0,02 | 1,27 | 150 | 390 | 4250 | | | | | İRA İRF İRAF | 53 | 181 | 16 |
| 586 | 0,02 | | 1,19 | 0,02 | 1,45 | 150 | 390 | 4250 | | | | | | | 182 | 18 |
| 519 | 0,02 | | 1,35 | 0,03 | 1,64 | 150 | 390 | 4250 | | | | | | | 183 | 19 |
| 421 | 0,03 | | 1,66 | 0,03 | 2,02 | 150 | 390 | 4250 | | | | | | | İRA İRF İRAF | 52 |
| 377 | 0,03 | | 1,86 | 0,04 | 2,25 | 150 | 390 | 4250 | 182 | 17 | | | | | | |
| 333 | 0,04 | | 2,10 | 0,04 | 2,55 | 150 | 390 | 4250 | 183 | 18 | | | | | | |
| 294 | 0,04 | | 2,38 | 0,05 | 2,89 | 150 | 390 | 4250 | 183 | 18 | | | | | | |
| 267 | 0,04 | | 2,62 | 0,05 | 3,18 | 150 | 390 | 4250 | İRA İRF İRAF | 52 | 181 | 15 | | | | |
| 238 | 0,05 | | 2,94 | 0,06 | 3,57 | 150 | 390 | 4250 | | | 182 | 17 | | | | |
| 193 | 0,06 | | 3,63 | 0,07 | 4,40 | 150 | 390 | 4250 | | | 183 | 18 | | | | |
| 169 | 0,07 | | 4,14 | 0,08 | 5,03 | 150 | 390 | 4250 | | | İRA İRF İRAF | 52 | 181 | 15 | | |
| 148 | 0,08 | | 4,73 | 0,10 | 5,74 | 150 | 390 | 4250 | | | | | 182 | 17 | | |
| 131 | 0,09 | | 5,34 | 0,11 | 6,49 | 150 | 390 | 4250 | | | | | 183 | 18 | | |
| 116 | 0,10 | | 6,03 | 0,12 | 7,33 | 150 | 390 | 4250 | | | | | İRA İRF İRAF | 52 | 181 | 15 |
| 106 | 0,11 | | 6,62 | 0,13 | 8,04 | 150 | 475 | 4250 | | | | | | | 182 | 17 |
| 88,98 | 0,13 | | 7,87 | 0,16 | 9,55 | 150 | 475 | 4250 | | | | | | | 183 | 18 |
| 77,17 | 0,15 | | 9,07 | 0,18 | 11 | 150 | 475 | 4250 | | | | | | | İRA İRF İRAF | 52 |
| 67,60 | 0,17 | | 10 | 0,21 | 13 | 150 | 475 | 4250 | 182 | 17 | | | | | | |
| 54,82 | 0,21 | | 13 | 0,25 | 16 | 150 | 475 | 4250 | 183 | 18 | | | | | | |
| 48,41 | 0,24 | | 14 | 0,29 | 18 | 150 | 475 | 4250 | İRA İRF İRAF | 52 | | | | | | |
| 43,99 | 0,26 | | 16 | 0,32 | 19 | 150 | 475 | 4250 | | | 182 | 17 | | | | |
| 39,10 | 0,29 | | 18 | 0,36 | 22 | 150 | 475 | 4250 | | | 183 | 18 | | | | |
| 34,93 | 0,33 | | 20 | 0,40 | 24 | 150 | 475 | 4250 | | | İRA İRF İRAF | 52 | | | | |
| 31,34 | 0,37 | | 22 | 0,45 | 27 | 150 | 475 | 4250 | | | | | 182 | 17 | | |
| 28,21 | 0,41 | | 25 | 0,50 | 30 | 150 | 475 | 4250 | | | | | 183 | 18 | | |
| 25,46 | 0,45 | | 27 | 0,55 | 33 | 150 | 475 | 4250 | | | | | İRA İRF İRAF | 52 | | |
| 23,03 | 0,50 | | 30 | 0,61 | 37 | 150 | 475 | 4250 | | | | | | | 182 | 17 |
| 21,88 | 0,53 | | 32 | 0,64 | 39 | 150 | 475 | 4250 | | | | | | | 183 | 18 |
| 19,70 | 0,58 | | 36 | 0,71 | 43 | 150 | 475 | 4250 | | | | | | | İRA İRF İRAF | 52 |
| 17,78 | 0,65 | | 39 | 0,79 | 48 | 150 | 475 | 4250 | 182 | 17 | | | | | | |
| 16,08 | 0,72 | | 44 | 0,87 | 53 | 150 | 475 | 4250 | 183 | 18 | | | | | | |
| 17,18 | 0,66 | 41 | 0,80 | 49 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | 181 | | | | | | |
| 15,05 | 0,75 | 47 | 0,91 | 56 | 150 | 475 | 3500 | | | 182 | 17 | | | | | |
| 13,29 | 0,85 | 53 | 1,0 | 64 | 150 | 475 | 3500 | | | 183 | 18 | | | | | |
| 11,81 | 0,96 | 59 | 1,2 | 72 | 150 | 475 | 3500 | | | İRA İRF İRAF | 52 | 181 | | | | |
| 10,56 | 1,1 | 66 | 1,3 | 81 | 150 | 475 | 3500 | | | | | 182 | 17 | | | |
| 9,470 | 1,2 | 74 | 1,5 | 90 | 150 | 475 | 3500 | | | | | 183 | 18 | | | |
| 8,888 | 1,3 | 79 | 1,5 | 96 | 150 | 475 | 3500 | | | | | İRA İRF İRAF | 52 | 181 | | |
| 7,974 | 1,4 | 88 | 1,7 | 107 | 150 | 475 | 3500 | | | | | | | 182 | 17 | |
| 7,178 | 1,6 | 98 | 1,9 | 118 | 150 | 475 | 3500 | | | | | | | 183 | 18 | |
| 6,479 | 1,7 | 108 | 2,1 | 131 | 150 | 475 | 3500 | | | | | | | İRA İRF İRAF | 52 | 181 |
| 5,821 | 1,9 | 120 | 2,4 | 146 | 150 | 475 | 3500 | 182 | 17 | | | | | | | |
| 5,254 | 2,2 | 133 | 2,6 | 162 | 150 | 475 | 3500 | 183 | 18 | | | | | | | |
| 5,032 | 2,3 | 139 | 2,7 | 169 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | | | | | | | 181 |
| 4,515 | 2,5 | 155 | 3,0 | 188 | 150 | 475 | 3500 | | | 182 | 17 | | | | | |
| 4,064 | 2,8 | 172 | 3,4 | 209 | 150 | 475 | 3500 | | | 183 | 18 | | | | | |



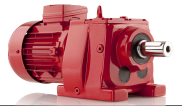
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|----------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 150 Nm | 3,668 | 3,1 | 191 | 3,8 | 232 | 150 | 475 | 3500 | İRA İRF İRAF | 52 | 181 182 183 | 15 17 18 |
| | 3,317 | 3,4 | 211 | 4,1 | 256 | 150 | 475 | 3500 | | | | |
| | 3,059 | 3,7 | 229 | 4,5 | 278 | 150 | 475 | 3500 | | | | |
| | 2,906 | 3,9 | 241 | 4,7 | 292 | 150 | 475 | 3500 | | | | |
| | 2,572 | 4,4 | 272 | 5,4 | 330 | 150 | 475 | 3500 | | | | |
| 300 Nm | 128 | 0,18 | 5,47 | 0,22 | 6,64 | 300 | 590 | 7000 | İRA İRF İRAF | 631 | 193 194 195 | 29 34 35 |
| | 119 | 0,19 | 5,86 | 0,23 | 7,12 | 300 | 590 | 7000 | | | | |
| | 96,27 | 0,24 | 7,27 | 0,29 | 8,83 | 300 | 590 | 7000 | | | | |
| | 87,81 | 0,26 | 7,97 | 0,32 | 9,68 | 300 | 590 | 7000 | | | | |
| | 83,37 | 0,28 | 8,40 | 0,34 | 10 | 300 | 590 | 7000 | | | | |
| | 70,96 | 0,32 | 9,86 | 0,39 | 12 | 300 | 590 | 7000 | | | | |
| | 61,03 | 0,38 | 11 | 0,46 | 14 | 300 | 590 | 7000 | | | | |
| | 51,65 | 0,45 | 14 | 0,54 | 16 | 300 | 590 | 7000 | | | | |
| | 46,79 | 0,49 | 15 | 0,60 | 18 | 300 | 590 | 7000 | | | | |
| | 42,55 | 0,54 | 16 | 0,66 | 20 | 300 | 590 | 7000 | | | | |
| | 35,74 | 0,64 | 20 | 0,78 | 24 | 300 | 590 | 7000 | | | | |
| | 29,85 | 0,77 | 23 | 0,94 | 28 | 300 | 590 | 7000 | | | | |
| | 25,16 | 0,91 | 28 | 1,1 | 34 | 300 | 590 | 7000 | | | | |
| | 21,50 | 1,1 | 33 | 1,3 | 40 | 300 | 590 | 7000 | | | | |
| | 20,53 | 1,1 | 34 | 1,4 | 41 | 300 | 590 | 7000 | | | | |
| | 18,18 | 1,3 | 39 | 1,5 | 47 | 300 | 590 | 7000 | | | | |
| | 15,59 | 1,5 | 45 | 1,8 | 55 | 300 | 590 | 7000 | | | | |
| | 13,81 | 1,7 | 51 | 2,0 | 62 | 300 | 590 | 7000 | | | | |
| | 16,67 | 1,4 | 42 | 1,7 | 51 | 300 | 590 | 7000 | | | | |
| | 15,13 | 1,5 | 46 | 1,8 | 56 | 300 | 590 | 7000 | | | | |
| | 13,48 | 1,7 | 52 | 2,0 | 63 | 300 | 590 | 7000 | | | | |
| | 12,21 | 1,9 | 57 | 2,3 | 70 | 300 | 590 | 7000 | | | | |
| | 11,10 | 2,0 | 63 | 2,5 | 77 | 300 | 590 | 7000 | | | | |
| | 10,07 | 2,2 | 69 | 2,7 | 84 | 300 | 590 | 7000 | | | | |
| | 9,358 | 2,4 | 75 | 2,9 | 91 | 300 | 590 | 7000 | | | | |
| | 8,510 | 2,7 | 82 | 3,2 | 100 | 300 | 590 | 7000 | | | | |
| | 7,673 | 3,0 | 91 | 3,6 | 111 | 300 | 590 | 7000 | | | | |
| | 7,108 | 3,2 | 98 | 3,9 | 120 | 300 | 590 | 7000 | | | | |
| | 6,480 | 3,5 | 108 | 4,2 | 131 | 300 | 590 | 7000 | | | | |
| | 5,992 | 3,8 | 117 | 4,6 | 142 | 300 | 590 | 7000 | | | | |
| 5,723 | 4,0 | 122 | 4,8 | 149 | 300 | 590 | 7000 | | | | | |
| 5,325 | 4,3 | 131 | 5,2 | 160 | 300 | 590 | 7000 | | | | | |
| 5,060 | 4,5 | 138 | 5,4 | 168 | 300 | 590 | 7000 | | | | | |
| 4,499 | 5,0 | 156 | 6,1 | 189 | 300 | 590 | 7000 | | | | | |
| 3,998 | 5,7 | 175 | 6,9 | 213 | 300 | 590 | 7000 | | | | | |
| 3,711 | 6,1 | 189 | 7,4 | 229 | 300 | 590 | 7000 | | | | | |
| 3,287 | 6,9 | 213 | 8,4 | 259 | 300 | 590 | 7000 | | | | | |
| 2,917 | 7,8 | 240 | 9,4 | 291 | 300 | 590 | 7000 | | | | | |
| 2,592 | 8,7 | 270 | 10,6 | 328 | 300 | 590 | 7000 | | | | | |
| 2,444 | 9,3 | 286 | 11,3 | 348 | 300 | 590 | 7000 | | | | | |
| 410 Nm | 13520 | 0,00 | 0,05 | 0,00 | 0,06 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 224 225 | 44 49 50 |
| | 12617 | 0,00 | 0,06 | 0,00 | 0,07 | 410 | 475 | 7000 | | | | |
| | 11345 | 0,00 | 0,06 | 0,00 | 0,07 | 410 | 475 | 7000 | | | | |
| | 10587 | 0,00 | 0,07 | 0,00 | 0,08 | 410 | 475 | 7000 | | | | |
| | 9873 | 0,00 | 0,07 | 0,00 | 0,09 | 410 | 475 | 7000 | | | | |
| | 9214 | 0,00 | 0,08 | 0,00 | 0,09 | 410 | 475 | 7000 | | | | |
| | 7479 | 0,00 | 0,09 | 0,01 | 0,11 | 410 | 475 | 7000 | | | | |
| | 6508 | 0,01 | 0,11 | 0,01 | 0,13 | 410 | 475 | 7000 | | | | |
| | 6194 | 0,01 | 0,11 | 0,01 | 0,14 | 410 | 475 | 7000 | | | | |
| | 5936 | 0,01 | 0,12 | 0,01 | 0,14 | 410 | 475 | 7000 | | | | |
| | 5780 | 0,01 | 0,12 | 0,01 | 0,15 | 410 | 475 | 7000 | | | | |
| | 5636 | 0,01 | 0,12 | 0,01 | 0,15 | 410 | 475 | 7000 | | | | |



| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|----------|-----|----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 410 Nm | 4814 | 0,01 | 0,15 | 0,01 | 0,18 | 410 | 475 | 7000 | İRA İRF İRAF | 63 İR 53 | 223 | 44 |
| | 4661 | 0,01 | 0,15 | 0,01 | 0,18 | 410 | 475 | 7000 | | | | |
| | 4570 | 0,01 | 0,15 | 0,01 | 0,19 | 410 | 475 | 7000 | | | | |
| | 4251 | 0,01 | 0,16 | 0,01 | 0,20 | 410 | 475 | 7000 | | | | |
| | 4036 | 0,01 | 0,17 | 0,01 | 0,21 | 410 | 475 | 7000 | | | | |
| | 3890 | 0,01 | 0,18 | 0,01 | 0,22 | 410 | 475 | 7000 | | | | |
| | 3436 | 0,01 | 0,20 | 0,01 | 0,25 | 410 | 475 | 7000 | | | | |
| | 2955 | 0,01 | 0,24 | 0,01 | 0,29 | 410 | 475 | 7000 | | | | |
| | 2685 | 0,01 | 0,26 | 0,01 | 0,32 | 410 | 475 | 7000 | | | | |
| | 2500 | 0,01 | 0,28 | 0,02 | 0,34 | 410 | 475 | 7000 | | | | |
| | 2198 | 0,01 | 0,32 | 0,02 | 0,39 | 410 | 475 | 7000 | | | | |
| | 2052 | 0,02 | 0,34 | 0,02 | 0,41 | 410 | 475 | 7000 | | | | |
| | 1797 | 0,02 | 0,39 | 0,02 | 0,47 | 410 | 475 | 7000 | | | | |
| | 1701 | 0,02 | 0,41 | 0,02 | 0,50 | 410 | 475 | 7000 | | | | |
| | 1654 | 0,02 | 0,42 | 0,02 | 0,51 | 410 | 475 | 7000 | | | | |
| | 1587 | 0,02 | 0,44 | 0,02 | 0,54 | 410 | 475 | 7000 | | | | |
| | 1509 | 0,02 | 0,46 | 0,03 | 0,56 | 410 | 475 | 7000 | | | | |
| | 1432 | 0,02 | 0,49 | 0,03 | 0,59 | 410 | 475 | 7000 | | | | |
| | 1280 | 0,03 | 0,55 | 0,03 | 0,66 | 410 | 475 | 7000 | | | | |
| | 1219 | 0,03 | 0,57 | 0,03 | 0,70 | 410 | 475 | 7000 | | | | |
| | 1167 | 0,03 | 0,60 | 0,03 | 0,73 | 410 | 475 | 7000 | | | | |
| | 1108 | 0,03 | 0,63 | 0,04 | 0,77 | 410 | 475 | 7000 | | | | |
| | 1049 | 0,03 | 0,67 | 0,04 | 0,81 | 410 | 475 | 7000 | | | | |
| | 943 | 0,03 | 0,74 | 0,04 | 0,90 | 410 | 475 | 7000 | | | | |
| | 887 | 0,04 | 0,79 | 0,04 | 0,96 | 410 | 475 | 7000 | | | | |
| | 811 | 0,04 | 0,86 | 0,05 | 1,05 | 410 | 475 | 7000 | | | | |
| | 804 | 0,04 | 0,87 | 0,05 | 1,06 | 410 | 475 | 7000 | | | | |
| | 731 | 0,04 | 0,96 | 0,05 | 1,16 | 410 | 475 | 7000 | | | | |
| | 686 | 0,05 | 1,02 | 0,06 | 1,24 | 410 | 475 | 7000 | | | | |
| | 622 | 0,05 | 1,13 | 0,06 | 1,37 | 410 | 475 | 7000 | | | | |
| | 614 | 0,05 | 1,14 | 0,06 | 1,38 | 410 | 475 | 7000 | | | | |
| | 566 | 0,06 | 1,24 | 0,07 | 1,50 | 410 | 475 | 7000 | | | | |
| | 538 | 0,06 | 1,30 | 0,07 | 1,58 | 410 | 475 | 7000 | | | | |
| | 475 | 0,07 | 1,47 | 0,08 | 1,79 | 410 | 475 | 7000 | | | | |
| | 449 | 0,07 | 1,56 | 0,09 | 1,89 | 410 | 475 | 7000 | | | | |
| | 424 | 0,08 | 1,65 | 0,09 | 2,00 | 410 | 475 | 7000 | | | | |
| | 396 | 0,08 | 1,77 | 0,10 | 2,15 | 410 | 475 | 7000 | | | | |
| | 319 | 0,10 | 2,19 | 0,12 | 2,66 | 410 | 475 | 7000 | | | | |
| | 291 | 0,11 | 2,40 | 0,13 | 2,92 | 410 | 475 | 7000 | | | | |
| | 276 | 0,12 | 2,53 | 0,14 | 3,07 | 410 | 475 | 7000 | | | | |
| | 235 | 0,14 | 2,97 | 0,16 | 3,61 | 410 | 475 | 7000 | | | | |
| | 214 | 0,15 | 3,27 | 0,18 | 3,97 | 410 | 475 | 7000 | | | | |
| 182 | 0,18 | 3,85 | 0,21 | 4,67 | 410 | 475 | 7000 | | | | | |
| 157 | 0,20 | 4,47 | 0,25 | 5,43 | 410 | 475 | 7000 | | | | | |
| 132 | 0,24 | 5,28 | 0,29 | 6,42 | 410 | 475 | 7000 | | | | | |
| 128 | 0,25 | 5,47 | 0,30 | 6,64 | 410 | 590 | 7000 | | | | | |
| 119 | 0,26 | 5,86 | 0,32 | 7,12 | 410 | 590 | 7000 | | | | | |
| 96,27 | 0,33 | 7,27 | 0,40 | 8,83 | 410 | 590 | 7000 | | | | | |
| 87,81 | 0,36 | 7,97 | 0,43 | 9,68 | 410 | 590 | 7000 | | | | | |
| 83,37 | 0,38 | 8,40 | 0,46 | 10 | 410 | 590 | 7000 | | | | | |
| 70,96 | 0,44 | 9,86 | 0,54 | 12 | 410 | 590 | 7000 | | | | | |
| 61,03 | 0,52 | 11 | 0,63 | 14 | 410 | 590 | 7000 | | | | | |
| 51,65 | 0,61 | 14 | 0,74 | 16 | 410 | 590 | 7000 | | | | | |
| 46,79 | 0,67 | 15 | 0,82 | 18 | 410 | 590 | 7000 | | | | | |
| 42,55 | 0,74 | 16 | 0,90 | 20 | 410 | 590 | 7000 | | | | | |
| 35,74 | 0,88 | 20 | 1,1 | 24 | 410 | 590 | 7000 | | | | | |
| 29,85 | 1,1 | 23 | 1,3 | 28 | 410 | 590 | 7000 | | | | | |
| | | | | | | | | | | | 211 | 29 |
| | | | | | | | | | | | 212 | 34 |
| | | | | | | | | | | | 213 | 35 |

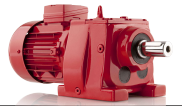


| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-------------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 410 Nm | 25,16 | 1,2 | 28 | 1,5 | 34 | 410 | 590 | 7000 | İRA İRF İRAF | 63 | 211 212 213 | 29 34 35 |
| | 21,50 | 1,5 | 33 | 1,8 | 40 | 410 | 590 | 7000 | | | | |
| | 20,53 | 1,5 | 34 | 1,9 | 41 | 410 | 590 | 7000 | | | | |
| | 18,18 | 1,7 | 39 | 2,1 | 47 | 410 | 590 | 7000 | | | | |
| | 15,59 | 2,0 | 45 | 2,4 | 55 | 410 | 590 | 7000 | | | | |
| | 13,81 | 2,3 | 51 | 2,8 | 62 | 410 | 590 | 7000 | | | | |
| | 16,67 | 1,9 | 42 | 2,3 | 51 | 410 | 590 | 4500 | | | | |
| | 15,13 | 2,0 | 46 | 2,5 | 56 | 410 | 590 | 4500 | | | | |
| | 13,48 | 2,3 | 52 | 2,8 | 63 | 410 | 590 | 4500 | | | | |
| | 12,21 | 2,5 | 57 | 3,1 | 70 | 410 | 590 | 4500 | | | | |
| | 11,10 | 2,8 | 63 | 3,4 | 77 | 410 | 590 | 4500 | | | | |
| | 10,07 | 3,1 | 69 | 3,7 | 84 | 410 | 590 | 4500 | | | | |
| | 9,358 | 3,3 | 75 | 4,0 | 91 | 410 | 590 | 4500 | | | | |
| | 8,510 | 3,6 | 82 | 4,4 | 100 | 410 | 590 | 4500 | | | | |
| | 7,673 | 4,0 | 91 | 4,9 | 111 | 410 | 590 | 4500 | | | | |
| | 7,108 | 4,4 | 98 | 5,3 | 120 | 410 | 590 | 4500 | İRA İRF İRAF | 62 | 211 212 213 | 24 29 30 |
| | 6,480 | 4,8 | 108 | 5,8 | 131 | 410 | 590 | 4500 | | | | |
| | 5,992 | 5,2 | 117 | 6,3 | 142 | 410 | 590 | 4500 | | | | |
| | 5,723 | 5,4 | 122 | 6,6 | 149 | 410 | 590 | 4500 | | | | |
| | 5,325 | 5,8 | 131 | 7,1 | 160 | 410 | 590 | 4500 | | | | |
| | 5,060 | 6,1 | 138 | 7,4 | 168 | 410 | 590 | 4500 | | | | |
| | 4,499 | 6,9 | 156 | 8,4 | 189 | 410 | 590 | 4500 | | | | |
| | 3,998 | 7,7 | 175 | 9,4 | 213 | 410 | 590 | 4500 | | | | |
| | 3,711 | 8,3 | 189 | 10,1 | 229 | 410 | 590 | 4500 | | | | |
| | 3,287 | 9,4 | 213 | 11,4 | 259 | 410 | 590 | 4500 | | | | |
| | 2,917 | 10,6 | 240 | 12,9 | 291 | 410 | 590 | 4500 | | | | |
| | 2,592 | 12,0 | 270 | 14,5 | 328 | 410 | 590 | 4500 | | | | |
| | 2,444 | 12,7 | 286 | 15,4 | 348 | 410 | 590 | 4500 | | | | |
| | 16071 | 0,00 | 0,04 | 0,00 | 0,05 | 600 | 475 | 10100 | | | | |
| | 14258 | 0,00 | 0,05 | 0,00 | 0,06 | 600 | 475 | 10100 | | | | |
| 12326 | 0,00 | 0,06 | 0,00 | 0,07 | 600 | 475 | 10100 | İRA İRF İRAF | 731 İR 53 | 241 242 243 | 54 57 60 | |
| 10380 | 0,00 | 0,07 | 0,01 | 0,08 | 600 | 475 | 10100 | | | | | |
| 9001 | 0,01 | 0,08 | 0,01 | 0,09 | 600 | 475 | 10100 | | | | | |
| 7782 | 0,01 | 0,09 | 0,01 | 0,11 | 600 | 475 | 10100 | | | | | |
| 6862 | 0,01 | 0,10 | 0,01 | 0,12 | 600 | 475 | 10100 | | | | | |
| 6012 | 0,01 | 0,12 | 0,01 | 0,14 | 600 | 475 | 10100 | | | | | |
| 5301 | 0,01 | 0,13 | 0,01 | 0,16 | 600 | 475 | 10100 | | | | | |
| 4299 | 0,01 | 0,16 | 0,01 | 0,20 | 600 | 475 | 10100 | | | | | |
| 3796 | 0,01 | 0,18 | 0,02 | 0,22 | 600 | 475 | 10100 | | | | | |
| 3450 | 0,01 | 0,20 | 0,02 | 0,25 | 600 | 475 | 10100 | | | | | |
| 3068 | 0,02 | 0,23 | 0,02 | 0,28 | 600 | 475 | 10100 | | | | | |
| 2747 | 0,02 | 0,25 | 0,02 | 0,31 | 600 | 475 | 10100 | | | | | |
| 2443 | 0,02 | 0,29 | 0,02 | 0,35 | 600 | 475 | 10100 | İRA İRF İRAF | 731 İR 52 | 241 242 243 | 54 57 60 | |
| 2613 | 0,02 | 0,27 | 0,02 | 0,33 | 600 | 475 | 10100 | | | | | |
| 2318 | 0,02 | 0,30 | 0,02 | 0,37 | 600 | 475 | 10100 | | | | | |
| 2004 | 0,02 | 0,35 | 0,03 | 0,42 | 600 | 475 | 10100 | | | | | |
| 1872 | 0,03 | 0,37 | 0,03 | 0,45 | 600 | 475 | 10100 | | | | | |
| 1640 | 0,03 | 0,43 | 0,04 | 0,52 | 600 | 475 | 10100 | | | | | |
| 1446 | 0,03 | 0,48 | 0,04 | 0,59 | 600 | 475 | 10100 | İRA İRF İRAF | 721 İR 53 | 241 242 243 | 53 56 59 | |
| 1286 | 0,04 | 0,54 | 0,04 | 0,66 | 600 | 475 | 10100 | | | | | |
| 1172 | 0,04 | 0,60 | 0,05 | 0,73 | 600 | 475 | 10100 | | | | | |
| 1035 | 0,05 | 0,68 | 0,06 | 0,82 | 600 | 475 | 10100 | | | | | |
| 921 | 0,05 | 0,76 | 0,06 | 0,92 | 600 | 475 | 10100 | | | | | |
| 825 | 0,06 | 0,85 | 0,07 | 1,03 | 600 | 475 | 10100 | | | | | |
| 743 | 0,06 | 0,94 | 0,08 | 1,14 | 600 | 475 | 10100 | | | | | |
| 675 | 0,07 | 1,04 | 0,09 | 1,26 | 600 | 475 | 10100 | | | | | |

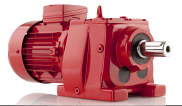


| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg |
|--|-------------------------------------|--|--|--|--|---|--|---|---------------------|-----------|-------------------|----------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=700rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 417 | 0,11 | 1,68 | 0,14 | 2,04 | 600 | 475 | 10100 | İRA İRF İRAF | 721 İR 52 | 241 242 243 | 50 53 56 |
| | 365 | 0,13 | 1,92 | 0,16 | 2,33 | 600 | 475 | 10100 | | | | |
| | 322 | 0,15 | 2,17 | 0,18 | 2,64 | 600 | 475 | 10100 | | | | |
| | 287 | 0,16 | 2,44 | 0,20 | 2,96 | 600 | 475 | 10100 | | | | |
| | 256 | 0,18 | 2,73 | 0,22 | 3,32 | 600 | 475 | 10100 | | | | |
| | 226 | 0,21 | 3,10 | 0,25 | 3,76 | 600 | 475 | 10100 | | | | |
| | 201 | 0,23 | 3,48 | 0,28 | 4,23 | 600 | 475 | 10100 | | | | |
| | 180 | 0,26 | 3,89 | 0,32 | 4,72 | 600 | 475 | 10100 | | | | |
| | 162 | 0,29 | 4,32 | 0,35 | 5,25 | 600 | 475 | 10100 | | | | |
| | 145 | 0,32 | 4,83 | 0,39 | 5,86 | 600 | 475 | 10100 | | | | |
| | 622 | 0,08 | 1,13 | 0,09 | 1,37 | 600 | 475 | 10100 | | | | |
| | 538 | 0,09 | 1,30 | 0,11 | 1,58 | 600 | 475 | 10100 | | | | |
| | 465 | 0,10 | 1,51 | 0,12 | 1,83 | 600 | 475 | 10100 | | | | |
| | 435 | 0,11 | 1,61 | 0,13 | 1,95 | 600 | 475 | 10100 | | | | |
| | 384 | 0,12 | 1,82 | 0,15 | 2,21 | 600 | 475 | 10100 | | | | |
| | 338 | 0,14 | 2,07 | 0,17 | 2,51 | 600 | 475 | 10100 | | | | |
| | 301 | 0,16 | 2,33 | 0,19 | 2,82 | 600 | 475 | 10100 | | | | |
| | 240 | 0,19 | 2,92 | 0,24 | 3,55 | 600 | 475 | 10100 | | | | |
| | 188 | 0,25 | 3,72 | 0,30 | 4,51 | 600 | 475 | 10100 | | | | |
| | 169 | 0,28 | 4,15 | 0,34 | 5,04 | 600 | 475 | 10100 | | | | |
| | 152 | 0,31 | 4,61 | 0,37 | 5,60 | 600 | 475 | 10100 | | | | |
| | 152 | 0,30 | 4,60 | 0,37 | 5,59 | 600 | 1000 | 10100 | | | | |
| | 135 | 0,34 | 5,19 | 0,41 | 6,30 | 600 | 1000 | 10100 | | | | |
| | 117 | 0,39 | 6,00 | 0,48 | 7,29 | 600 | 1000 | 10100 | | | | |
| | 101 | 0,46 | 6,94 | 0,55 | 8,43 | 600 | 1000 | 10100 | | | | |
| | 88,93 | 0,52 | 7,87 | 0,63 | 9,56 | 600 | 1000 | 10100 | | | | |
| | 78,43 | 0,59 | 8,93 | 0,71 | 11 | 600 | 1000 | 10100 | | | | |
| | 69,75 | 0,66 | 10 | 0,80 | 12 | 600 | 1000 | 9700 | | | | |
| | 62,46 | 0,74 | 11 | 0,89 | 14 | 600 | 1000 | 9700 | | | | |
| | 55,54 | 0,83 | 13 | 1,0 | 15 | 600 | 1000 | 9700 | | | | |
| | 49,74 | 0,93 | 14 | 1,1 | 17 | 600 | 1000 | 9700 | | | | |
| | 44,79 | 1,0 | 16 | 1,2 | 19 | 600 | 1000 | 9700 | | | | |
| | 39,89 | 1,2 | 18 | 1,4 | 21 | 600 | 1000 | 9500 | | | | |
| | 35,22 | 1,3 | 20 | 1,6 | 24 | 600 | 1000 | 9500 | | | | |
| | 31,31 | 1,5 | 22 | 1,8 | 27 | 600 | 1000 | 9500 | | | | |
| | 27,97 | 1,6 | 25 | 2,0 | 30 | 600 | 1000 | 9250 | | | | |
| | 25,10 | 1,8 | 28 | 2,2 | 34 | 600 | 1000 | 9250 | | | | |
| | 22,59 | 2,0 | 31 | 2,5 | 38 | 600 | 1000 | 9250 | | | | |
| | 31,62 | 1,4 | 22 | 1,7 | 27 | 600 | 1000 | 7500 | | | | |
| | 28,06 | 1,6 | 25 | 2,0 | 30 | 600 | 1000 | 7500 | | | | |
| | 24,25 | 1,9 | 29 | 2,3 | 35 | 600 | 1000 | 7500 | | | | |
| | 21,39 | 2,1 | 33 | 2,6 | 40 | 600 | 1000 | 7500 | | | | |
| | 19,02 | 2,4 | 37 | 2,9 | 45 | 600 | 1000 | 7250 | | | | |
| | 17,03 | 2,7 | 41 | 3,2 | 50 | 600 | 1000 | 7250 | | | | |
| | 15,40 | 2,9 | 45 | 3,6 | 55 | 600 | 1000 | 7250 | | | | |
| 13,73 | 3,3 | 51 | 4,0 | 62 | 600 | 1000 | 7250 | | | | | |
| 12,13 | 3,7 | 58 | 4,5 | 70 | 600 | 1000 | 7250 | | | | | |
| 11,17 | 4,1 | 63 | 4,9 | 76 | 600 | 1000 | 7250 | | | | | |
| 9,866 | 4,6 | 71 | 5,6 | 86 | 600 | 1000 | 7000 | | | | | |
| 8,769 | 5,2 | 80 | 6,3 | 97 | 600 | 1000 | 7000 | | | | | |
| 7,834 | 5,8 | 89 | 7,0 | 109 | 600 | 1000 | 7000 | | | | | |
| 7,029 | 6,4 | 100 | 7,8 | 121 | 600 | 1000 | 7000 | | | | | |
| 6,327 | 7,2 | 111 | 8,7 | 134 | 600 | 1000 | 7000 | | | | | |
| 5,710 | 7,9 | 123 | 9,6 | 149 | 600 | 1000 | 7000 | | | | | |
| 5,164 | 8,8 | 136 | 10,7 | 165 | 600 | 1000 | 7000 | | | | | |
| 4,677 | 9,7 | 150 | 11,8 | 182 | 600 | 1000 | 7000 | | | | | |
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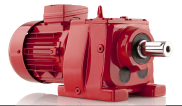
Performance Tables / Tablas de rendimiento



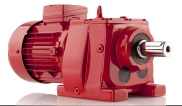
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-----------------|-------------------|----------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 600 Nm | 4,240 | 10,7 | 165 | 13,0 | 200 | 600 | 1000 | 7000 | İRA İRF İRAF | 721 | 229 | 37 |
| | 3,809 | 11,9 | 184 | 14,5 | 223 | 600 | 1000 | 7000 | | | 230 | 40 |
| | 3,438 | 13,2 | 204 | 16,0 | 247 | 600 | 1000 | 7000 | | | 231 | 43 |
| | 3,109 | 14,6 | 225 | 17,7 | 273 | 600 | 1000 | 7000 | | | | |
| | 2,816 | 16,1 | 249 | 19,5 | 302 | 600 | 1000 | 7000 | | | | |
| | 2,553 | 17,8 | 274 | 21,6 | 333 | 600 | 1000 | 7000 | | | | |
| 870 Nm | 16321 | 0,00 | 0,04 | 0,01 | 0,05 | 870 | 475 | 12100 | İRA İRF İRAF | 73 İR 53 | 259 260 261 | 53 56 59 |
| | 14110 | 0,00 | 0,05 | 0,01 | 0,06 | 870 | 475 | 12100 | | | | |
| | 13744 | 0,01 | 0,05 | 0,01 | 0,06 | 870 | 475 | 12100 | | | | |
| | 11919 | 0,01 | 0,06 | 0,01 | 0,07 | 870 | 475 | 12100 | | | | |
| | 10947 | 0,01 | 0,06 | 0,01 | 0,08 | 870 | 475 | 12100 | | | | |
| | 10304 | 0,01 | 0,07 | 0,01 | 0,08 | 870 | 475 | 12100 | | | | |
| | 9654 | 0,01 | 0,07 | 0,01 | 0,09 | 870 | 475 | 12100 | | | | |
| | 8586 | 0,01 | 0,08 | 0,01 | 0,10 | 870 | 475 | 12100 | | | | |
| | 7688 | 0,01 | 0,09 | 0,01 | 0,11 | 870 | 475 | 12100 | | | | |
| | 6474 | 0,01 | 0,11 | 0,01 | 0,13 | 870 | 475 | 12100 | | | | |
| | 5674 | 0,01 | 0,12 | 0,01 | 0,15 | 870 | 475 | 12100 | | | | |
| | 5287 | 0,01 | 0,13 | 0,02 | 0,16 | 870 | 475 | 12100 | | | | |
| | 4423 | 0,02 | 0,16 | 0,02 | 0,19 | 870 | 475 | 12100 | | | | |
| | 3989 | 0,02 | 0,18 | 0,02 | 0,21 | 870 | 475 | 12100 | | | | |
| | 3522 | 0,02 | 0,20 | 0,02 | 0,24 | 870 | 475 | 12100 | | | | |
| | 3153 | 0,02 | 0,22 | 0,03 | 0,27 | 870 | 475 | 12100 | | | | |
| | 2817 | 0,02 | 0,25 | 0,03 | 0,30 | 870 | 475 | 12100 | | | | |
| | 2527 | 0,03 | 0,28 | 0,03 | 0,34 | 870 | 475 | 12100 | | | | |
| | 2106 | 0,03 | 0,33 | 0,04 | 0,40 | 870 | 475 | 12100 | | | | |
| | 2017 | 0,03 | 0,35 | 0,04 | 0,42 | 870 | 475 | 12100 | | | | |
| | 1882 | 0,04 | 0,37 | 0,05 | 0,45 | 870 | 475 | 12100 | | | | |
| | 1703 | 0,04 | 0,41 | 0,05 | 0,50 | 870 | 475 | 12100 | | | | |
| | 1520 | 0,05 | 0,46 | 0,06 | 0,56 | 870 | 475 | 12100 | | | | |
| | 1410 | 0,05 | 0,50 | 0,06 | 0,60 | 870 | 475 | 12100 | | | | |
| | 1265 | 0,05 | 0,55 | 0,07 | 0,67 | 870 | 475 | 12100 | | | | |
| | 1187 | 0,06 | 0,59 | 0,07 | 0,72 | 870 | 475 | 12100 | | | | |
| | 981 | 0,07 | 0,71 | 0,09 | 0,87 | 870 | 475 | 12100 | | | | |
| | 921 | 0,07 | 0,76 | 0,09 | 0,92 | 870 | 475 | 12100 | | | | |
| | 865 | 0,08 | 0,81 | 0,10 | 0,98 | 870 | 475 | 12100 | | | | |
| | 812 | 0,08 | 0,86 | 0,10 | 1,05 | 870 | 475 | 12100 | | | | |
| | 769 | 0,09 | 0,91 | 0,11 | 1,11 | 870 | 475 | 12100 | | | | |
| | 722 | 0,10 | 0,97 | 0,12 | 1,18 | 870 | 475 | 12100 | | | | |
| | 648 | 0,11 | 1,08 | 0,13 | 1,31 | 870 | 475 | 12100 | | | | |
| | 576 | 0,12 | 1,21 | 0,14 | 1,47 | 870 | 475 | 12100 | | | | |
| | 447 | 0,15 | 1,57 | 0,18 | 1,90 | 870 | 475 | 12100 | | | | |
| | 394 | 0,17 | 1,78 | 0,21 | 2,16 | 870 | 475 | 12100 | | | | |
| 351 | 0,19 | 2,00 | 0,23 | 2,42 | 870 | 475 | 12100 | | | | | |
| 314 | 0,22 | 2,23 | 0,26 | 2,71 | 870 | 475 | 12100 | | | | | |
| 283 | 0,24 | 2,48 | 0,29 | 3,01 | 870 | 475 | 12100 | | | | | |
| 154 | 0,43 | 4,53 | 0,52 | 5,50 | 870 | 1200 | 12100 | | | | | |
| 134 | 0,50 | 5,24 | 0,61 | 6,37 | 870 | 1200 | 12100 | | | | | |
| 103 | 0,65 | 6,80 | 0,79 | 8,25 | 870 | 1200 | 12100 | | | | | |
| 91,36 | 0,73 | 7,66 | 0,89 | 9,30 | 870 | 1200 | 12100 | | | | | |
| 81,25 | 0,82 | 8,62 | 1,00 | 10 | 870 | 1200 | 12100 | | | | | |
| 72,76 | 0,92 | 9,62 | 1,1 | 12 | 870 | 1200 | 12100 | | | | | |
| 65,52 | 1,0 | 11 | 1,2 | 13 | 870 | 1200 | 12100 | | | | | |
| 59,42 | 1,1 | 12 | 1,4 | 14 | 870 | 1200 | 12100 | | | | | |
| 52,47 | 1,3 | 13 | 1,5 | 16 | 870 | 1200 | 12100 | | | | | |
| 46,36 | 1,4 | 15 | 1,7 | 18 | 870 | 1200 | 12100 | | | | | |
| 41,67 | 1,6 | 17 | 1,9 | 20 | 870 | 1200 | 12100 | | | | | |
| 37,38 | 1,8 | 19 | 2,2 | 23 | 870 | 1200 | 12100 | | | | | |
| | | | | | | | | | İRA İRF İRAF | 73 | 247 | 37 |
| | | | | | | | | | | | 248 | 40 |
| | | | | | | | | | | | 249 | 43 |
| | | | | | | | | | | | | |
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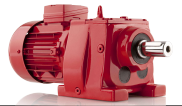
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | | kg | |
|--|-------------------------------------|--|--|--|--|---|--|---|---------------------|----------|--|--|-------------------|-------------------|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=700rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=850rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 870 Nm | 31,16 | 2,1 | 22 | 2,6 | 27 | 870 | 1200 | 12100 | İRA İRF İRAF | 73 | | | 247 248 249 | 37 40 43 |
| | 27,84 | 2,4 | 25 | 2,9 | 31 | 870 | 1200 | 12100 | | | | | | |
| | 24,98 | 2,7 | 28 | 3,2 | 34 | 870 | 1200 | 12100 | | | | | | |
| | 22,48 | 3,0 | 31 | 3,6 | 38 | 870 | 1200 | 12100 | | | | | | |
| | 20,29 | 3,3 | 34 | 4,0 | 42 | 870 | 1200 | 12100 | | | | | | |
| | 18,35 | 3,6 | 38 | 4,4 | 46 | 870 | 1200 | 12100 | | | | | | |
| | 16,62 | 4,0 | 42 | 4,9 | 51 | 870 | 1200 | 12100 | | | | | | |
| | 15,07 | 4,4 | 46 | 5,4 | 56 | 870 | 1200 | 12100 | | | | | | |
| | 13,53 | 4,9 | 52 | 5,9 | 63 | 870 | 1200 | 9000 | | | | | | |
| | 12,02 | 5,5 | 58 | 6,6 | 71 | 870 | 1200 | 9000 | | | | | | |
| | 10,74 | 6,1 | 65 | 7,4 | 79 | 870 | 1200 | 9000 | | | | | | |
| | 9,337 | 7,0 | 75 | 8,5 | 91 | 870 | 1200 | 9000 | | | | | | |
| | 8,333 | 7,9 | 84 | 9,6 | 102 | 870 | 1200 | 9000 | | | | | | |
| | 7,476 | 8,8 | 94 | 10,7 | 114 | 870 | 1200 | 9000 | | | | | | |
| | 6,730 | 9,8 | 104 | 11,9 | 126 | 870 | 1200 | 9000 | | | | | | |
| | 6,074 | 10,8 | 115 | 13,1 | 140 | 870 | 1200 | 9000 | | | | | | |
| | 5,494 | 12,0 | 127 | 14,5 | 155 | 870 | 1200 | 9000 | | | | | | |
| | 4,995 | 13,2 | 140 | 16,0 | 170 | 870 | 1200 | 9000 | | | | | | |
| | 4,497 | 14,6 | 156 | 17,7 | 189 | 870 | 1200 | 9000 | | | | | | |
| | 4,059 | 16,2 | 172 | 19,7 | 209 | 870 | 1200 | 9000 | | | | | | |
| | 3,670 | 17,9 | 191 | 21,7 | 232 | 870 | 1200 | 9000 | | | | | | |
| | 3,324 | 19,8 | 211 | 24,0 | 256 | 870 | 1200 | 9000 | | | | | | |
| | 3,014 | 21,8 | 232 | 26,5 | 282 | 870 | 1200 | 9000 | | | | | | |
| | 2,733 | 24,0 | 256 | 29,2 | 311 | 870 | 1200 | 9000 | | | | | | |
| 2,571 | 25,6 | 272 | 31,0 | 331 | 870 | 1200 | 9000 | | | | | | | |
| 1500 Nm | 18231 | 0,01 | 0,04 | 0,01 | 0,05 | 1500 | 590 | 17000 | İRA İRF İRAF | 83 İR 53 | | | 277 278 279 | 120 125 127 |
| | 15217 | 0,01 | 0,05 | 0,01 | 0,06 | 1500 | 590 | 17000 | | | | | | |
| | 13984 | 0,01 | 0,05 | 0,01 | 0,06 | 1500 | 590 | 17000 | | | | | | |
| | 12302 | 0,01 | 0,06 | 0,01 | 0,07 | 1500 | 590 | 17500 | | | | | | |
| | 10968 | 0,01 | 0,06 | 0,01 | 0,08 | 1500 | 590 | 17500 | | | | | | |
| | 8893 | 0,01 | 0,08 | 0,02 | 0,10 | 1500 | 590 | 17500 | | | | | | |
| | 7902 | 0,02 | 0,09 | 0,02 | 0,11 | 1500 | 590 | 17500 | | | | | | |
| | 7092 | 0,02 | 0,10 | 0,02 | 0,12 | 1500 | 590 | 17500 | | | | | | |
| | 6393 | 0,02 | 0,11 | 0,02 | 0,13 | 1500 | 590 | 17500 | | | | | | |
| | 5484 | 0,02 | 0,13 | 0,03 | 0,15 | 1500 | 590 | 17500 | | | | | | |
| | 4922 | 0,02 | 0,14 | 0,03 | 0,17 | 1500 | 590 | 17500 | | | | | | |
| | 4437 | 0,03 | 0,16 | 0,03 | 0,19 | 1500 | 590 | 17500 | | | | | | |
| | 4015 | 0,03 | 0,17 | 0,04 | 0,21 | 1500 | 590 | 17500 | | | | | | |
| | 3593 | 0,03 | 0,19 | 0,04 | 0,24 | 1500 | 590 | 17500 | | | | | | |
| | 3239 | 0,04 | 0,22 | 0,05 | 0,26 | 1500 | 590 | 17500 | | | | | | |
| | 2930 | 0,04 | 0,24 | 0,05 | 0,29 | 1500 | 590 | 17500 | | | | | | |
| | 2659 | 0,05 | 0,26 | 0,05 | 0,32 | 1500 | 590 | 17500 | | | | | | |
| | 2419 | 0,05 | 0,29 | 0,06 | 0,35 | 1500 | 590 | 17500 | | | | | | |
| | 2205 | 0,05 | 0,32 | 0,07 | 0,39 | 1500 | 590 | 17500 | | | | | | |
| | 2013 | 0,06 | 0,35 | 0,07 | 0,42 | 1500 | 590 | 17500 | | | | | | |
| | 1840 | 0,07 | 0,38 | 0,08 | 0,46 | 1500 | 590 | 17500 | | | | | | |
| | 1778 | 0,07 | 0,39 | 0,08 | 0,48 | 1500 | 590 | 17500 | | | | | | |
| | 1580 | 0,08 | 0,44 | 0,09 | 0,54 | 1500 | 590 | 17500 | | | | | | |
| | 1418 | 0,08 | 0,49 | 0,10 | 0,60 | 1500 | 590 | 17500 | | | | | | |
| | 1308 | 0,09 | 0,54 | 0,11 | 0,65 | 1500 | 590 | 17500 | | | | | | |
| | 1279 | 0,09 | 0,55 | 0,11 | 0,66 | 1500 | 590 | 17500 | | | | | | |
| | 1162 | 0,10 | 0,60 | 0,12 | 0,73 | 1500 | 590 | 17500 | | | | | | |
| | 1157 | 0,10 | 0,61 | 0,12 | 0,73 | 1500 | 590 | 17500 | | | | | | |
| | 1050 | 0,11 | 0,67 | 0,14 | 0,81 | 1500 | 590 | 17500 | | | | | | |
| | 1043 | 0,11 | 0,67 | 0,14 | 0,81 | 1500 | 590 | 17500 | | | | | | |
| | 940 | 0,13 | 0,74 | 0,15 | 0,90 | 1500 | 590 | 17500 | | | | | | |
| | 850 | 0,14 | 0,82 | 0,17 | 1,00 | 1500 | 590 | 17500 | | | | | | |
| | 772 | 0,15 | 0,91 | 0,19 | 1,10 | 1500 | 590 | 17500 | | | | | | |
| | 723 | 0,16 | 0,97 | 0,20 | 1,18 | 1500 | 590 | 17500 | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 82 İR 53 | | | 277 278 279 | 130 135 137 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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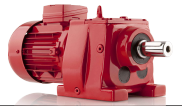
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|----|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 1500 Nm | 700 | 0,17 | 1,00 | 0,20 | 1,21 | 1500 | 590 | 17500 | IRA IRF IRAF | 84 | 271 272 273 | 106 111 113 |
| | 635 | 0,18 | 1,10 | 0,22 | 1,34 | 1500 | 590 | 17500 | | | | |
| | 579 | 0,20 | 1,21 | 0,25 | 1,47 | 1500 | 590 | 17500 | | | | |
| | 530 | 0,22 | 1,32 | 0,27 | 1,60 | 1500 | 590 | 17500 | | | | |
| | 487 | 0,24 | 1,44 | 0,29 | 1,75 | 1500 | 590 | 17500 | | | | |
| | 428 | 0,27 | 1,63 | 0,33 | 1,98 | 1500 | 590 | 17500 | | | | |
| | 382 | 0,31 | 1,83 | 0,37 | 2,23 | 1500 | 590 | 17500 | | | | |
| | 343 | 0,34 | 2,04 | 0,41 | 2,48 | 1500 | 590 | 17500 | | | | |
| | 310 | 0,38 | 2,26 | 0,46 | 2,74 | 1500 | 590 | 17500 | | | | |
| | 275 | 0,42 | 2,54 | 0,52 | 3,09 | 1500 | 590 | 17500 | | | | |
| | 273 | 0,43 | 2,56 | 0,52 | 3,11 | 1500 | 590 | 17500 | | | | |
| | 243 | 0,48 | 2,88 | 0,58 | 3,50 | 1500 | 590 | 17500 | | | | |
| | 218 | 0,54 | 3,21 | 0,65 | 3,90 | 1500 | 590 | 17500 | | | | |
| | 196 | 0,59 | 3,57 | 0,72 | 4,33 | 1500 | 590 | 17500 | | | | |
| | 174 | 0,67 | 4,01 | 0,81 | 4,87 | 1500 | 590 | 17500 | | | | |
| | 168 | 0,69 | 4,16 | 0,84 | 5,05 | 1500 | 590 | 17500 | | | | |
| | 251 | 0,46 | 2,79 | 0,56 | 3,39 | 1500 | 1550 | 17500 | | | | |
| | 221 | 0,52 | 3,17 | 0,63 | 3,84 | 1500 | 1550 | 17500 | | | | |
| | 209 | 0,55 | 3,36 | 0,67 | 4,08 | 1500 | 1550 | 17500 | | | | |
| | 187 | 0,62 | 3,75 | 0,75 | 4,55 | 1500 | 1550 | 17500 | | | | |
| | 168 | 0,68 | 4,16 | 0,83 | 5,05 | 1500 | 1550 | 17500 | | | | |
| | 153 | 0,75 | 4,58 | 0,91 | 5,57 | 1500 | 1550 | 17500 | | | | |
| | 139 | 0,83 | 5,03 | 1,0 | 6,11 | 1500 | 1550 | 17500 | | | | |
| | 127 | 0,90 | 5,49 | 1,1 | 6,67 | 1500 | 1550 | 17500 | | | | |
| | 117 | 0,98 | 5,98 | 1,2 | 7,26 | 1500 | 1550 | 17500 | | | | |
| | 103 | 1,1 | 6,79 | 1,4 | 8,25 | 1500 | 1550 | 17500 | | | | |
| | 91,85 | 1,3 | 7,62 | 1,5 | 9,25 | 1500 | 1550 | 17500 | | | | |
| | 82,47 | 1,4 | 8,49 | 1,7 | 10 | 1500 | 1550 | 17500 | | | | |
| | 74,47 | 1,5 | 9,40 | 1,9 | 11 | 1500 | 1550 | 17500 | | | | |
| | 66,18 | 1,7 | 11 | 2,1 | 13 | 1500 | 1550 | 17500 | | | | |
| | 59,39 | 1,9 | 12 | 2,4 | 14 | 1500 | 1550 | 17500 | | | | |
| | 53,54 | 2,1 | 13 | 2,6 | 16 | 1500 | 1550 | 17500 | | | | |
| | 47,59 | 2,4 | 15 | 2,9 | 18 | 1500 | 1550 | 17500 | | | | |
| | 45,93 | 2,5 | 15 | 3,0 | 19 | 1500 | 1550 | 17500 | | | | |
| | 41,22 | 2,8 | 17 | 3,4 | 21 | 1500 | 1550 | 17500 | | | | |
| | 37,16 | 3,1 | 19 | 3,8 | 23 | 1500 | 1550 | 17500 | | | | |
| | 33,03 | 3,5 | 21 | 4,2 | 26 | 1500 | 1550 | 17500 | | | | |
| | 30,08 | 3,8 | 23 | 4,6 | 28 | 1500 | 1550 | 17500 | | | | |
| | 27,12 | 4,2 | 26 | 5,2 | 31 | 1500 | 1550 | 17500 | | | | |
| | 24,54 | 4,7 | 29 | 5,7 | 35 | 1500 | 1550 | 17500 | | | | |
| 22,27 | 5,2 | 31 | 6,3 | 38 | 1500 | 1550 | 17500 | | | | | |
| 20,26 | 5,7 | 35 | 6,9 | 42 | 1500 | 1550 | 17500 | | | | | |
| 18,47 | 6,2 | 38 | 7,6 | 46 | 1500 | 1550 | 17500 | | | | | |
| 16,86 | 6,8 | 42 | 8,3 | 50 | 1500 | 1550 | 17500 | | | | | |
| 15,41 | 7,5 | 45 | 9,1 | 55 | 1500 | 1550 | 17500 | | | | | |
| 14,90 | 7,6 | 47 | 9,2 | 57 | 1500 | 1550 | 13000 | | | | | |
| 13,24 | 8,6 | 53 | 10,4 | 64 | 1500 | 1550 | 13000 | | | | | |
| 11,88 | 9,5 | 59 | 11,6 | 72 | 1500 | 1550 | 13000 | | | | | |
| 10,71 | 10,6 | 65 | 12,9 | 79 | 1500 | 1550 | 13000 | | | | | |
| 9,689 | 11,7 | 72 | 14,2 | 88 | 1500 | 1550 | 13000 | | | | | |
| 8,793 | 12,9 | 80 | 15,6 | 97 | 1500 | 1550 | 13000 | | | | | |
| 8,244 | 13,7 | 85 | 16,7 | 103 | 1500 | 1550 | 13000 | | | | | |
| 7,432 | 15,2 | 94 | 18,5 | 114 | 1500 | 1550 | 13000 | | | | | |
| 6,724 | 16,9 | 104 | 20,5 | 126 | 1500 | 1550 | 13000 | | | | | |
| 6,103 | 18,6 | 115 | 22,5 | 139 | 1500 | 1550 | 13000 | | | | | |
| 5,552 | 20,4 | 126 | 24,8 | 153 | 1500 | 1550 | 13000 | | | | | |
| 5,061 | 22,4 | 138 | 27,2 | 168 | 1500 | 1550 | 13000 | | | | | |
| | | | | | | | | | IRA IRF IRAF | 82 | 265 266 267 | 89 94 96 |



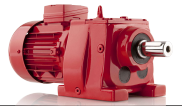
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-----------------|--|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 1500 Nm | 4,620 | 24,5 | 152 | 29,8 | 184 | 1500 | 1550 | 13000 | IRA IRF IRAF | 82 | | 265 266 267 | 89 94 96 |
| | 4,222 | 26,8 | 166 | 32,6 | 201 | 1500 | 1550 | 13000 | | | | | |
| | 4,052 | 28,0 | 173 | 34,0 | 210 | 1500 | 1550 | 13000 | | | | | |
| | 3,694 | 30,7 | 189 | 37,3 | 230 | 1500 | 1550 | 13000 | | | | | |
| | 3,372 | 33,6 | 208 | 40,8 | 252 | 1500 | 1550 | 13000 | | | | | |
| | 3,082 | 36,8 | 227 | 44,6 | 276 | 1500 | 1550 | 13000 | | | | | |
| | 2,926 | 38,7 | 239 | 47,0 | 290 | 1500 | 1550 | 13000 | | | | | |
| | 2,674 | 42,4 | 262 | 51,5 | 318 | 1500 | 1550 | 13000 | | | | | |
| | 2,373 | 47,8 | 295 | 58,0 | 358 | 1500 | 1550 | 13000 | | | | | |
| 2800 Nm | 22852 | 0,01 | 0,03 | 0,01 | 0,04 | 2800 | 590 | 25000 | IRA IRF IRAF | 93 IR 63 | | 295 296 297 | 154 164 174 |
| | 20623 | 0,01 | 0,03 | 0,01 | 0,04 | 2800 | 590 | 25000 | | | | | |
| | 18725 | 0,01 | 0,04 | 0,01 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 18426 | 0,01 | 0,04 | 0,01 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 17911 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 16707 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 16629 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 15663 | 0,01 | 0,04 | 0,02 | 0,05 | 2800 | 590 | 25000 | | | | | |
| | 15160 | 0,01 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 15098 | 0,01 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 14679 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 14410 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 13583 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 13137 | 0,02 | 0,05 | 0,02 | 0,06 | 2800 | 590 | 25000 | | | | | |
| | 13037 | 0,02 | 0,05 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 12258 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 11681 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 11577 | 0,02 | 0,06 | 0,02 | 0,07 | 2800 | 590 | 25000 | | | | | |
| | 11130 | 0,02 | 0,06 | 0,02 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 10542 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 10288 | 0,02 | 0,07 | 0,03 | 0,08 | 2800 | 590 | 25000 | | | | | |
| | 9565 | 0,02 | 0,07 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 9309 | 0,02 | 0,08 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 9206 | 0,02 | 0,08 | 0,03 | 0,09 | 2800 | 590 | 25000 | | | | | |
| | 8565 | 0,03 | 0,08 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 8198 | 0,03 | 0,09 | 0,03 | 0,10 | 2800 | 590 | 25000 | | | | | |
| | 8006 | 0,03 | 0,09 | 0,03 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 7808 | 0,03 | 0,09 | 0,03 | 0,11 | 2800 | 590 | 25000 | | | | | |
| | 7366 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 7224 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 6881 | 0,03 | 0,10 | 0,04 | 0,12 | 2800 | 590 | 25000 | | | | | |
| | 6715 | 0,03 | 0,10 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 6420 | 0,04 | 0,11 | 0,04 | 0,13 | 2800 | 590 | 25000 | | | | | |
| | 6115 | 0,04 | 0,11 | 0,04 | 0,14 | 2800 | 590 | 25000 | | | | | |
| | 5918 | 0,04 | 0,12 | 0,05 | 0,14 | 2800 | 590 | 25000 | | | | | |
| | 5745 | 0,04 | 0,12 | 0,05 | 0,15 | 2800 | 590 | 25000 | | | | | |
| | 5472 | 0,04 | 0,13 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 5259 | 0,04 | 0,13 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 5169 | 0,04 | 0,14 | 0,05 | 0,16 | 2800 | 590 | 25000 | | | | | |
| | 4872 | 0,05 | 0,14 | 0,06 | 0,17 | 2800 | 590 | 25000 | | | | | |
| | 4706 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| | 4673 | 0,05 | 0,15 | 0,06 | 0,18 | 2800 | 590 | 25000 | | | | | |
| 4294 | 0,05 | 0,16 | 0,06 | 0,20 | 2800 | 590 | 25000 | | | | | | |
| 4241 | 0,05 | 0,17 | 0,06 | 0,20 | 2800 | 590 | 25000 | | | | | | |
| 4190 | 0,05 | 0,17 | 0,07 | 0,20 | 2800 | 590 | 25000 | | | | | | |



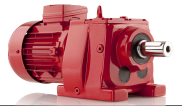
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|----------|--|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 2800 Nm | 3954 | 0,06 | 0,18 | 0,07 | 0,21 | 2800 | 590 | 25000 | İRA İRF İRAF | 93 İR 62 | | 295 296 297 | 149 159 169 |
| | 3688 | 0,06 | 0,19 | 0,07 | 0,23 | 2800 | 590 | 25000 | | | | | |
| | 3582 | 0,06 | 0,20 | 0,08 | 0,24 | 2800 | 590 | 25000 | | | | | |
| | 3341 | 0,07 | 0,21 | 0,08 | 0,25 | 2800 | 590 | 25000 | | | | | |
| | 3241 | 0,07 | 0,22 | 0,08 | 0,26 | 2800 | 590 | 25000 | | | | | |
| | 2936 | 0,08 | 0,24 | 0,09 | 0,29 | 2800 | 590 | 25000 | | | | | |
| | 2878 | 0,08 | 0,24 | 0,09 | 0,30 | 2800 | 590 | 25000 | | | | | |
| | 2607 | 0,08 | 0,27 | 0,10 | 0,33 | 2800 | 590 | 25000 | | | | | |
| | 2336 | 0,09 | 0,30 | 0,12 | 0,36 | 2800 | 590 | 25000 | | | | | |
| | 2108 | 0,11 | 0,33 | 0,13 | 0,40 | 2800 | 590 | 25000 | | | | | |
| | 1914 | 0,12 | 0,37 | 0,14 | 0,44 | 2800 | 590 | 25000 | | | | | |
| | 1601 | 0,14 | 0,44 | 0,17 | 0,53 | 2800 | 590 | 25000 | | | | | |
| | 1473 | 0,15 | 0,48 | 0,18 | 0,58 | 2800 | 590 | 25000 | | | | | |
| | 1343 | 0,16 | 0,52 | 0,20 | 0,63 | 2800 | 590 | 25000 | | | | | |
| | 1183 | 0,19 | 0,59 | 0,23 | 0,72 | 2800 | 590 | 25000 | | | | | |
| | 1052 | 0,21 | 0,67 | 0,26 | 0,81 | 2800 | 590 | 25000 | | | | | |
| | 941 | 0,24 | 0,74 | 0,29 | 0,90 | 2800 | 590 | 25000 | | | | | |
| | 838 | 0,26 | 0,84 | 0,32 | 1,01 | 2800 | 590 | 25000 | | | | | |
| | 739 | 0,30 | 0,95 | 0,36 | 1,15 | 2800 | 590 | 25000 | | | | | |
| | 656 | 0,34 | 1,07 | 0,41 | 1,30 | 2800 | 590 | 25000 | | | | | |
| | 587 | 0,38 | 1,19 | 0,46 | 1,45 | 2800 | 590 | 25000 | | | | | |
| | 528 | 0,42 | 1,33 | 0,51 | 1,61 | 2800 | 590 | 25000 | | | | | |
| | 478 | 0,46 | 1,46 | 0,55 | 1,78 | 2800 | 590 | 25000 | | | | | |
| | 431 | 0,51 | 1,62 | 0,61 | 1,97 | 2800 | 590 | 25000 | | | | | |
| | 380 | 0,57 | 1,84 | 0,70 | 2,24 | 2800 | 590 | 25000 | | | | | |
| | 338 | 0,65 | 2,07 | 0,78 | 2,52 | 2800 | 590 | 25000 | | | | | |
| | 302 | 0,72 | 2,32 | 0,88 | 2,81 | 2800 | 590 | 25000 | | | | | |
| | 269 | 0,81 | 2,60 | 0,98 | 3,16 | 2800 | 590 | 25000 | | | | | |
| | 237 | 0,92 | 2,95 | 1,1 | 3,58 | 2800 | 590 | 25000 | | | | | |
| | 211 | 1,0 | 3,32 | 1,3 | 4,03 | 2800 | 590 | 25000 | | | | | |
| | 189 | 1,2 | 3,71 | 1,4 | 4,51 | 2800 | 590 | 25000 | | | | | |
| | 170 | 1,3 | 4,12 | 1,6 | 5,01 | 2800 | 590 | 25000 | | | | | |
| | 153 | 1,4 | 4,56 | 1,7 | 5,54 | 2800 | 590 | 25000 | | | | | |
| | 293 | 0,73 | 2,39 | 0,89 | 2,90 | 2800 | 2500 | 25000 | | | | | |
| | 274 | 0,78 | 2,56 | 0,95 | 3,11 | 2800 | 2500 | 25000 | | | | | |
| | 241 | 0,89 | 2,91 | 1,1 | 3,53 | 2800 | 2500 | 25000 | | | | | |
| | 214 | 1,0 | 3,28 | 1,2 | 3,98 | 2800 | 2500 | 25000 | | | | | |
| | 191 | 1,1 | 3,66 | 1,4 | 4,44 | 2800 | 2500 | 25000 | | | | | |
| | 173 | 1,2 | 4,05 | 1,5 | 4,92 | 2800 | 2500 | 25000 | | | | | |
| | 157 | 1,4 | 4,46 | 1,7 | 5,42 | 2800 | 2500 | 25000 | | | | | |
| | 131 | 1,6 | 5,34 | 2,0 | 6,48 | 2800 | 2500 | 25000 | | | | | |
| | 121 | 1,8 | 5,80 | 2,2 | 7,04 | 2800 | 2500 | 25000 | | | | | |
| | 110 | 2,0 | 6,36 | 2,4 | 7,73 | 2800 | 2500 | 25000 | | | | | |
| | 96,96 | 2,2 | 7,22 | 2,7 | 8,77 | 2800 | 2500 | 25000 | | | | | |
| | 86,17 | 2,5 | 8,12 | 3,0 | 9,86 | 2800 | 2500 | 25000 | | | | | |
| | 77,10 | 2,8 | 9,08 | 3,4 | 11 | 2800 | 2500 | 25000 | | | | | |
| | 68,66 | 3,1 | 10 | 3,8 | 12 | 2800 | 2500 | 25000 | | | | | |
| | 60,50 | 3,5 | 12 | 4,3 | 14 | 2800 | 2500 | 25000 | | | | | |
| 53,77 | 4,0 | 13 | 4,8 | 16 | 2800 | 2500 | 25000 | | | | | | |
| 48,11 | 4,5 | 15 | 5,4 | 18 | 2800 | 2500 | 25000 | | | | | | |
| 43,29 | 5,0 | 16 | 6,0 | 20 | 2800 | 2500 | 25000 | | | | | | |
| 39,14 | 5,5 | 18 | 6,7 | 22 | 2800 | 2500 | 25000 | | | | | | |
| 35,52 | 6,0 | 20 | 7,3 | 24 | 2800 | 2500 | 25000 | | | | | | |
| 32,34 | 6,6 | 22 | 8,1 | 26 | 2800 | 2500 | 25000 | | | | | | |
| 29,53 | 7,3 | 24 | 8,8 | 29 | 2800 | 2500 | 25000 | | | | | | |
| 27,01 | 7,9 | 26 | 9,7 | 31 | 2800 | 2500 | 25000 | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 93 | | 283 284 285 | 133 143 153 |



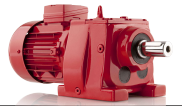
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | | | | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|---|------------------|--|----|---|------------------|--|--|-----|-----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 2800 Nm | 24,76 | 8,7 | 28 | 10,5 | 34 | 2800 | 2500 | 25000 | IRA IRF IRAF | 93 | | | 283 | 133 | | | | |
| | 20,09 | 10,7 | 35 | 13,0 | 42 | 2800 | 2500 | 25000 | | | | | 284 | 143 | | | | |
| | 16,85 | 12,7 | 42 | 15,5 | 50 | 2800 | 2500 | 25000 | | | | | 285 | 153 | | | | |
| | 14,21 | 15,1 | 49 | 18,4 | 60 | 2800 | 2500 | 25000 | IRA IRF IRAF | 92 | | | 283 | 163 | | | | |
| | 23,38 | 9,0 | 30 | 11,0 | 36 | 2800 | 2500 | 20000 | | | | | 284 | 173 | | | | |
| | 20,60 | 10,3 | 34 | 12,5 | 41 | 2800 | 2500 | 20000 | | | | | 285 | 183 | | | | |
| | 18,31 | 11,6 | 38 | 14,0 | 46 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 16,38 | 12,9 | 43 | 15,7 | 52 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 14,74 | 14,3 | 47 | 17,4 | 58 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 13,33 | 15,9 | 53 | 19,3 | 64 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 11,01 | 19,2 | 64 | 23,3 | 77 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 10,05 | 21,0 | 70 | 25,5 | 85 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 9,200 | 23,0 | 76 | 27,9 | 92 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 8,317 | 25,4 | 84 | 30,9 | 102 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 7,548 | 28,0 | 93 | 34,0 | 113 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 6,872 | 30,8 | 102 | 37,4 | 124 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 6,274 | 33,7 | 112 | 40,9 | 135 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 5,740 | 36,9 | 122 | 44,7 | 148 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 5,261 | 40,2 | 133 | 48,8 | 162 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 4,437 | 47,7 | 158 | 57,9 | 192 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 4,080 | 51,8 | 172 | 63,0 | 208 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 3,753 | 56,4 | 187 | 68,4 | 226 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 3,580 | 59,1 | 196 | 71,7 | 237 | 2800 | 2500 | 20000 | | | | | | | | | | |
| | 3,019 | 70,1 | 232 | 85,1 | 282 | 2800 | 2500 | 20000 | | | | | | | | | | |
| 2,776 | 76,2 | 252 | 92,5 | 306 | 2800 | 2500 | 20000 | | | | | | | | | | | |
| 2,554 | 82,8 | 274 | 101 | 333 | 2800 | 2500 | 20000 | | | | | | | | | | | |
| 2,450 | 86,3 | 286 | 105 | 347 | 2800 | 2500 | 20000 | | | | | | | | | | | |
| 4300 Nm | 22099 | 0,02 | 0,03 | 0,02 | 0,04 | 4300 | 1200 | 34000 | IRA IRF IRAF | 103 IR 73 | | | 313 | 253 | | | | |
| | 18788 | 0,02 | 0,04 | 0,02 | 0,05 | 4300 | 1200 | 34000 | | | | | 314 | 256 | | | | |
| | 16845 | 0,02 | 0,04 | 0,02 | 0,05 | 4300 | 1200 | 34000 | | | | | 315 | 278 | | | | |
| | 15213 | 0,02 | 0,05 | 0,03 | 0,06 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 13823 | 0,02 | 0,05 | 0,03 | 0,06 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 12625 | 0,03 | 0,06 | 0,03 | 0,07 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 11581 | 0,03 | 0,06 | 0,04 | 0,07 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 10325 | 0,03 | 0,07 | 0,04 | 0,08 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 9118 | 0,04 | 0,08 | 0,05 | 0,09 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 8104 | 0,04 | 0,09 | 0,05 | 0,10 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 7241 | 0,05 | 0,10 | 0,06 | 0,12 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 6496 | 0,05 | 0,11 | 0,06 | 0,13 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 5848 | 0,06 | 0,12 | 0,07 | 0,15 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 5278 | 0,07 | 0,13 | 0,08 | 0,16 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 4790 | 0,07 | 0,15 | 0,09 | 0,18 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 4230 | 0,08 | 0,17 | 0,10 | 0,20 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 3760 | 0,09 | 0,19 | 0,11 | 0,23 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 3359 | 0,10 | 0,21 | 0,12 | 0,25 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 3014 | 0,11 | 0,23 | 0,14 | 0,28 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 2713 | 0,13 | 0,26 | 0,15 | 0,31 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 2448 | 0,14 | 0,29 | 0,17 | 0,35 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 2733 | 0,12 | 0,26 | 0,15 | 0,31 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 2413 | 0,14 | 0,29 | 0,17 | 0,35 | 4300 | 1200 | 34000 | | | | | IRA IRF IRAF | 102 IR 73 | | | 313 | 246 |
| | 2145 | 0,16 | 0,33 | 0,19 | 0,40 | 4300 | 1200 | 34000 | | | | | | | | | 314 | 249 |
| | 1916 | 0,18 | 0,37 | 0,22 | 0,44 | 4300 | 1200 | 34000 | | | | | | | | | 315 | 271 |
| | 1635 | 0,21 | 0,43 | 0,25 | 0,52 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 1460 | 0,23 | 0,48 | 0,28 | 0,58 | 4300 | 1200 | 34000 | | | | | | | | | | |
| | 1311 | 0,26 | 0,53 | 0,31 | 0,65 | 4300 | 1200 | 34000 | | | | | | | | | | |
| 1180 | 0,29 | 0,59 | 0,35 | 0,72 | 4300 | 1200 | 34000 | | | | | | | | | | | |



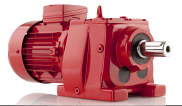
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-----|--------------------|-----|-----|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 4300 Nm | 1173 | 0,29 | 0,60 | 0,35 | 0,72 | 4300 | 1200 | 34000 | İRA İRF İRAF | 103 | İR 72 | 313 | 251 |
| | 1046 | 0,32 | 0,67 | 0,39 | 0,81 | 4300 | 1200 | 34000 | | | | 314 | 254 |
| | 923 | 0,37 | 0,76 | 0,45 | 0,92 | 4300 | 1200 | 34000 | | | | 315 | 276 |
| | 821 | 0,41 | 0,85 | 0,50 | 1,04 | 4300 | 1200 | 34000 | | | | | |
| | 803 | 0,42 | 0,87 | 0,51 | 1,06 | 4300 | 1200 | 34000 | İRA İRF İRAF | 104 | | | |
| | 720 | 0,47 | 0,97 | 0,57 | 1,18 | 4300 | 1200 | 34000 | | | | | |
| | 612 | 0,55 | 1,14 | 0,66 | 1,39 | 4300 | 1200 | 34000 | | | | | |
| | 548 | 0,61 | 1,28 | 0,74 | 1,55 | 4300 | 1200 | 34000 | | | | | |
| | 495 | 0,68 | 1,42 | 0,82 | 1,72 | 4300 | 1200 | 34000 | | | | | |
| | 447 | 0,75 | 1,57 | 0,91 | 1,90 | 4300 | 1200 | 34000 | | | | | |
| | 406 | 0,83 | 1,73 | 1,0 | 2,09 | 4300 | 1200 | 34000 | | | | | |
| | 371 | 0,90 | 1,89 | 1,1 | 2,29 | 4300 | 1200 | 34000 | | | | | |
| | 340 | 0,98 | 2,06 | 1,2 | 2,50 | 4300 | 1200 | 34000 | | | | | |
| | 306 | 1,1 | 2,28 | 1,3 | 2,77 | 4300 | 1200 | 34000 | | | | | |
| | 281 | 1,2 | 2,49 | 1,4 | 3,02 | 4300 | 1200 | 34000 | | | | | |
| | 256 | 1,3 | 2,73 | 1,6 | 3,32 | 4300 | 3750 | 30000 | | | İRA İRF İRAF | 103 | |
| | 225 | 1,5 | 3,11 | 1,8 | 3,78 | 4300 | 3750 | 30000 | | | | | |
| | 208 | 1,6 | 3,37 | 1,9 | 4,09 | 4300 | 3750 | 30000 | | | | | |
| | 185 | 1,8 | 3,79 | 2,2 | 4,61 | 4300 | 3750 | 30000 | | | | | |
| | 165 | 2,0 | 4,23 | 2,4 | 5,14 | 4300 | 3750 | 30000 | | | | | |
| | 141 | 2,3 | 4,98 | 2,8 | 6,04 | 4300 | 3750 | 30000 | | | | | |
| | 126 | 2,6 | 5,55 | 3,2 | 6,74 | 4300 | 3750 | 30000 | | | | | |
| | 113 | 2,9 | 6,18 | 3,5 | 7,51 | 4300 | 3750 | 30000 | | | | | |
| | 104 | 3,2 | 6,76 | 3,9 | 8,21 | 4300 | 3750 | 30000 | | | | | |
| | 94,54 | 3,5 | 7,40 | 4,2 | 8,99 | 4300 | 3750 | 30000 | | | | | |
| | 86,72 | 3,8 | 8,07 | 4,6 | 9,80 | 4300 | 3750 | 30000 | | | | | |
| | 77,32 | 4,3 | 9,05 | 5,2 | 11 | 4300 | 3750 | 30000 | | | | | |
| | 68,28 | 4,8 | 10 | 5,9 | 12 | 4300 | 3750 | 30000 | | | | | |
| | 60,69 | 5,4 | 12 | 6,6 | 14 | 4300 | 3750 | 30000 | | | | | |
| | 54,22 | 6,1 | 13 | 7,4 | 16 | 4300 | 3750 | 30000 | | | | | |
| | 48,65 | 6,8 | 14 | 8,2 | 17 | 4300 | 3750 | 30000 | | | | | |
| | 43,79 | 7,5 | 16 | 9,1 | 19 | 4300 | 3750 | 30000 | | | | | |
| | 39,53 | 8,3 | 18 | 10,1 | 22 | 4300 | 3750 | 30000 | | | | | |
| | 35,87 | 9,2 | 20 | 11,2 | 24 | 4300 | 3750 | 30000 | | | | | |
| | 31,68 | 10,4 | 22 | 12,6 | 27 | 4300 | 3750 | 30000 | | | | | |
| | 28,16 | 11,7 | 25 | 14,2 | 30 | 4300 | 3750 | 30000 | | | | | |
| | 25,16 | 13,1 | 28 | 15,9 | 34 | 4300 | 3750 | 30000 | | | | | |
| | 22,57 | 14,6 | 31 | 17,7 | 38 | 4300 | 3750 | 30000 | | | | | |
| | 20,32 | 16,2 | 34 | 19,7 | 42 | 4300 | 3750 | 30000 | | | | | |
| | 18,37 | 18,0 | 38 | 21,8 | 46 | 4300 | 3750 | 30000 | | | | | |
| | 16,58 | 19,9 | 42 | 24,2 | 51 | 4300 | 3750 | 30000 | | | | | |
| | 15,02 | 22,0 | 47 | 26,7 | 57 | 4300 | 3750 | 30000 | | | | | |
| | 17,69 | 18,4 | 40 | 22,3 | 48 | 4300 | 3750 | 25000 | İRA İRF İRAF | 102 | | | |
| | 15,62 | 20,8 | 45 | 25,2 | 54 | 4300 | 3750 | 25000 | | | | | |
| | 13,89 | 23,4 | 50 | 28,4 | 61 | 4300 | 3750 | 25000 | | | | | |
| 12,41 | 26,2 | 56 | 31,8 | 69 | 4300 | 3750 | 25000 | | | | | | |
| 10,59 | 30,7 | 66 | 37,3 | 80 | 4300 | 3750 | 25000 | | | | | | |
| 9,457 | 34,4 | 74 | 41,7 | 90 | 4300 | 3750 | 25000 | | | | | | |
| 8,485 | 38,3 | 82 | 46,5 | 100 | 4300 | 3750 | 25000 | | | | | | |
| 7,638 | 42,5 | 92 | 51,6 | 111 | 4300 | 3750 | 25000 | | | | | | |
| 7,144 | 45,5 | 98 | 55,2 | 119 | 4300 | 3750 | 25000 | | | | | | |
| 6,382 | 50,9 | 110 | 61,8 | 133 | 4300 | 3750 | 25000 | | | | | | |
| 5,726 | 56,7 | 122 | 68,9 | 148 | 4300 | 3750 | 25000 | | | | | | |
| 5,154 | 63,0 | 136 | 76,5 | 165 | 4300 | 3750 | 21000 | | | | | | |
| 4,652 | 69,8 | 150 | 84,8 | 183 | 4300 | 3750 | 21000 | | | | | | |
| 4,207 | 77,2 | 166 | 93,8 | 202 | 4300 | 3750 | 21000 | | | | | | |
| 3,723 | 87,3 | 188 | 106 | 228 | 4300 | 3750 | 21000 | | | | | | |



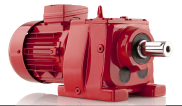
| Service Factor <i>Factor de servicio</i> $S_f = 1$ | i <i>Relación de transmisión</i> | 50 Hz | | 60 Hz | | M_2 <i>Output Torque</i> <i>Par de salida</i> [Nm] | F_{Q1} <i>Over Loads</i> <i>Sobrecargas</i> [N] | F_{Q10} <i>Over Loads</i> <i>Sobrecargas</i> [N] | Type <i>Tipo</i> | | | kg | | | | | | | | |
|--|-------------------------------------|--|--|--|--|---|--|---|---|------------------|-----|-----|---|------------------|-----|-----|---|------------|-----|-----|
| | | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=700rpm$) | P_1 <i>Power</i> <i>Potencia</i> [kW] | n_2 <i>Output Speeds</i> <i>Velocidad de salida</i> [r.p.m] ($n_1=850rpm$) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 4300 Nm | 3,360 | 96,7 | 208 | 117 | 253 | 4300 | 3750 | 21000 | IRA IRF IRAF | 102 | 301 | 200 | | | | | | | | |
| | 3,039 | 107 | 230 | 130 | 280 | 4300 | 3750 | 21000 | | | 302 | 203 | | | | | | | | |
| | 2,752 | 118 | 254 | 143 | 309 | 4300 | 3750 | 19000 | | | 303 | 225 | | | | | | | | |
| | 2,495 | 130 | 281 | 158 | 341 | 4300 | 3750 | 19000 | | | | | | | | | | | | |
| | 2,263 | 144 | 309 | 174 | 376 | 4300 | 3750 | 19000 | | | | | | | | | | | | |
| 8000 Nm | 32309 | 0,02 | 0,02 | 0,02 | 0,03 | 8000 | 1200 | 52000 | IRA IRF IRAF | 123 IR 73 | 331 | 338 | | | | | | | | |
| | 28749 | 0,02 | 0,02 | 0,03 | 0,03 | 8000 | 1200 | 52000 | | | | | 332 | 340 | | | | | | |
| | 25807 | 0,02 | 0,03 | 0,03 | 0,03 | 8000 | 1200 | 52000 | | | | | 333 | 368 | | | | | | |
| | 23337 | 0,03 | 0,03 | 0,03 | 0,04 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 18918 | 0,03 | 0,04 | 0,04 | 0,04 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 17260 | 0,04 | 0,04 | 0,05 | 0,05 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 15494 | 0,04 | 0,05 | 0,05 | 0,05 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 13395 | 0,05 | 0,05 | 0,06 | 0,06 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 12113 | 0,05 | 0,06 | 0,06 | 0,07 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 11190 | 0,06 | 0,06 | 0,07 | 0,08 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 10209 | 0,06 | 0,07 | 0,08 | 0,08 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 9165 | 0,07 | 0,08 | 0,09 | 0,09 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 8288 | 0,08 | 0,08 | 0,09 | 0,10 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 7928 | 0,08 | 0,09 | 0,10 | 0,11 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 6426 | 0,10 | 0,11 | 0,12 | 0,13 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 5863 | 0,11 | 0,12 | 0,13 | 0,14 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 5263 | 0,12 | 0,13 | 0,15 | 0,16 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 4759 | 0,13 | 0,15 | 0,16 | 0,18 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 4059 | 0,16 | 0,17 | 0,19 | 0,21 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 3671 | 0,17 | 0,19 | 0,21 | 0,23 | 8000 | 1200 | 52000 | | | | | IRA IRF IRAF | 122 IR 73 | 331 | 309 | | | | |
| | 3509 | 0,18 | 0,20 | 0,22 | 0,24 | 8000 | 1200 | 52000 | | | | | | | | | 332 | 311 | | |
| | 3173 | 0,20 | 0,22 | 0,24 | 0,27 | 8000 | 1200 | 52000 | | | | | | | | | 333 | 339 | | |
| | 2829 | 0,22 | 0,25 | 0,27 | 0,30 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 2517 | 0,25 | 0,28 | 0,31 | 0,34 | 8000 | 1200 | 52000 | | | | | IRA IRF IRAF | 123 IR 72 | 331 | 336 | | | | |
| | 2260 | 0,28 | 0,31 | 0,34 | 0,38 | 8000 | 1200 | 52000 | | | | | | | | | 332 | 338 | | |
| | 2043 | 0,31 | 0,34 | 0,38 | 0,42 | 8000 | 1200 | 52000 | | | | | | | | | 333 | 366 | | |
| | 1657 | 0,38 | 0,42 | 0,46 | 0,51 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 1511 | 0,42 | 0,46 | 0,51 | 0,56 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 1357 | 0,47 | 0,52 | 0,57 | 0,63 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 1227 | 0,52 | 0,57 | 0,63 | 0,69 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 1025 | 0,62 | 0,68 | 0,75 | 0,83 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 902 | 0,70 | 0,78 | 0,85 | 0,94 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 883 | 0,71 | 0,79 | 0,86 | 0,96 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 799 | 0,78 | 0,88 | 0,95 | 1,06 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 647 | 0,96 | 1,08 | 1,2 | 1,31 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 591 | 1,1 | 1,19 | 1,3 | 1,44 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 530 | 1,2 | 1,32 | 1,4 | 1,60 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 479 | 1,3 | 1,46 | 1,6 | 1,77 | 8000 | 1200 | 52000 | | | | | | | | | IRA IRF IRAF | 124 | 325 | 389 |
| | 400 | 1,6 | 1,75 | 1,9 | 2,12 | 8000 | 1200 | 52000 | | | | | | | | | | | | |
| | 352 | 1,8 | 1,99 | 2,1 | 2,41 | 8000 | 1200 | 52000 | | | | | 327 | 419 | | | | | | |
| 313 | 2,0 | 2,24 | 2,4 | 2,72 | 8000 | 1200 | 52000 | | | | | | | | | | | | | |
| 279 | 2,2 | 2,51 | 2,7 | 3,04 | 8000 | 1200 | 52000 | | | | | | | | | | | | | |
| 251 | 2,5 | 2,79 | 3,0 | 3,39 | 8000 | 1200 | 52000 | | | | | | | | | | | | | |
| 226 | 2,8 | 3,09 | 3,3 | 3,75 | 8000 | 1200 | 52000 | | | | | | | | | | | | | |
| 215 | 2,9 | 3,25 | 3,5 | 3,95 | 8000 | 1200 | 52000 | | | | | | | | | | | | | |
| 209 | 2,9 | 3,35 | 3,6 | 4,06 | 8000 | 3750 | 41000 | | | | | | | | | | | | | |
| 186 | 3,3 | 3,76 | 4,0 | 4,57 | 8000 | 3750 | 41000 | | | | | | | | | | | | | |
| 167 | 3,7 | 4,19 | 4,5 | 5,09 | 8000 | 3750 | 41000 | IRA IRF IRAF | 123 | 319 | 323 | | | | | | | | | |
| 151 | 4,1 | 4,63 | 4,9 | 5,63 | 8000 | 3750 | 41000 | | | | | 320 | 325 | | | | | | | |
| 122 | 5,0 | 5,72 | 6,1 | 6,94 | 8000 | 3750 | 41000 | | | | | 321 | 353 | | | | | | | |
| 112 | 5,5 | 6,26 | 6,7 | 7,61 | 8000 | 3750 | 41000 | | | | | | | | | | | | | |
| 100 | 6,1 | 6,98 | 7,4 | 8,47 | 8000 | 3750 | 41000 | | | | | | | | | | | | | |



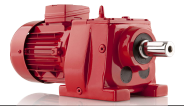
| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-----------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | |
| | | | | | | | | | | | | |
| 8000 Nm | 90,71 | 6,8 | 7,72 | 8,2 | 9,37 | 8000 | 3750 | 41000 | IRA IRF IRAF | 123 | 319 320 321 | 323 325 353 |
| | 75,77 | 8,1 | 9,24 | 9,8 | 11 | 8000 | 3750 | 41000 | | | | |
| | 66,67 | 9,2 | 10 | 11,2 | 13 | 8000 | 3750 | 41000 | | | | |
| | 59,16 | 10,4 | 12 | 12,6 | 14 | 8000 | 3750 | 39700 | | | | |
| | 52,85 | 11,6 | 13 | 14,1 | 16 | 8000 | 3750 | 39700 | | | | |
| | 47,47 | 12,9 | 15 | 15,7 | 18 | 8000 | 3750 | 39700 | | | | |
| | 42,84 | 14,3 | 16 | 17,4 | 20 | 8000 | 3750 | 39700 | | | | |
| | 40,70 | 15,1 | 17 | 18,3 | 21 | 8000 | 3750 | 39700 | | | | |
| | 36,11 | 17,0 | 19 | 20,6 | 24 | 8000 | 3750 | 39700 | | | | |
| | 32,26 | 19,0 | 22 | 23,1 | 26 | 8000 | 3750 | 39700 | | | | |
| | 28,98 | 21,2 | 24 | 25,7 | 29 | 8000 | 3750 | 39700 | | | | |
| | 26,15 | 23,5 | 27 | 28,5 | 33 | 8000 | 3750 | 39700 | | | | |
| | 23,69 | 25,9 | 30 | 31,5 | 36 | 8000 | 3750 | 39700 | | | | |
| | 21,52 | 28,5 | 33 | 34,6 | 39 | 8000 | 3750 | 39700 | | | | |
| | 19,60 | 31,3 | 36 | 38,0 | 43 | 8000 | 3750 | 39700 | | | | |
| | 17,89 | 34,3 | 39 | 41,6 | 48 | 8000 | 3750 | 39700 | | | | |
| | 26,28 | 23,0 | 27 | 27,9 | 32 | 8000 | 3750 | 45000 | | | | |
| | 23,77 | 25,4 | 29 | 30,9 | 36 | 8000 | 3750 | 45000 | | | | |
| | 19,85 | 30,4 | 35 | 37,0 | 43 | 8000 | 3750 | 45000 | | | | |
| | 17,47 | 34,6 | 40 | 42,0 | 49 | 8000 | 3750 | 45000 | | | | |
| | 15,50 | 39,0 | 45 | 47,3 | 55 | 8000 | 3750 | 45000 | | | | |
| | 13,85 | 43,7 | 51 | 53,0 | 61 | 8000 | 3750 | 45000 | | | | |
| | 12,44 | 48,6 | 56 | 59,0 | 68 | 8000 | 3750 | 45000 | | | | |
| | 11,50 | 52,6 | 61 | 63,8 | 74 | 8000 | 3750 | 45000 | | | | |
| | 10,20 | 59,3 | 69 | 72,0 | 83 | 8000 | 3750 | 45000 | | | | |
| | 9,112 | 66,3 | 77 | 80,5 | 93 | 8000 | 3750 | 45000 | | | | |
| | 8,185 | 73,8 | 86 | 89,7 | 104 | 8000 | 3750 | 45000 | | | | |
| | 7,724 | 78,2 | 91 | 95,0 | 110 | 8000 | 3750 | 45000 | | | | |
| | 6,938 | 87,1 | 101 | 106 | 123 | 8000 | 3750 | 45000 | | | | |
| | 6,261 | 96,5 | 112 | 117 | 136 | 8000 | 3750 | 45000 | | | | |
| | 5,671 | 107 | 123 | 129 | 150 | 8000 | 3750 | 45000 | | | | |
| | 5,153 | 117 | 136 | 142 | 165 | 8000 | 3750 | 45000 | | | | |
| | 4,694 | 129 | 149 | 156 | 181 | 8000 | 3750 | 45000 | | | | |
| 4,284 | 141 | 163 | 171 | 198 | 8000 | 3750 | 45000 | | | | | |
| 3,917 | 154 | 179 | 187 | 217 | 8000 | 3750 | 45000 | | | | | |
| 3,585 | 169 | 195 | 205 | 237 | 8000 | 3750 | 45000 | | | | | |
| 3,284 | 184 | 213 | 223 | 259 | 8000 | 3750 | 45000 | | | | | |
| 13000 Nm | 537 | 1,9 | 1,30 | 2,3 | 1,58 | 13000 | 1550 | 60000 | IRA IRF IRAF | 143 IR 82 | 355 356 357 | 587 601 627 |
| | 443 | 2,3 | 1,58 | 2,8 | 1,92 | 13000 | 1550 | 60000 | | | | |
| | 398 | 2,6 | 1,76 | 3,1 | 2,14 | 13000 | 1550 | 60000 | | | | |
| | 359 | 2,9 | 1,95 | 3,5 | 2,37 | 13000 | 1550 | 60000 | | | | |
| | 331 | 3,1 | 2,11 | 3,8 | 2,57 | 13000 | 1550 | 60000 | | | | |
| | 277 | 3,7 | 2,53 | 4,5 | 3,07 | 13000 | 1550 | 60000 | | | | |
| | 249 | 4,1 | 2,81 | 5,0 | 3,41 | 13000 | 1550 | 60000 | | | | |
| | 225 | 4,6 | 3,11 | 5,5 | 3,78 | 13000 | 1550 | 60000 | | | | |
| | 207 | 5,0 | 3,38 | 6,0 | 4,11 | 13000 | 1550 | 60000 | | | | |
| | 187 | 5,5 | 3,74 | 6,7 | 4,55 | 13000 | 1550 | 60000 | | | | |
| | 157 | 6,5 | 4,46 | 7,9 | 5,41 | 13000 | 1550 | 60000 | | | | |
| | 24943 | 0,04 | 0,03 | 0,05 | 0,03 | 13000 | 1200 | 60000 | IRA IRF IRAF | 143 IR 73 | 349 350 351 | 513 527 553 |
| | 21564 | 0,05 | 0,03 | 0,06 | 0,04 | 13000 | 1200 | 60000 | | | | |
| | 19545 | 0,05 | 0,04 | 0,06 | 0,04 | 13000 | 1200 | 60000 | | | | |
| | 17730 | 0,06 | 0,04 | 0,07 | 0,05 | 13000 | 1200 | 60000 | | | | |
| | 15134 | 0,07 | 0,05 | 0,08 | 0,06 | 13000 | 1200 | 60000 | | | | |
| | 13372 | 0,08 | 0,05 | 0,09 | 0,06 | 13000 | 1200 | 60000 | | | | |
| | 12131 | 0,09 | 0,06 | 0,10 | 0,07 | 13000 | 1200 | 60000 | | | | |
| | 10788 | 0,10 | 0,06 | 0,12 | 0,08 | 13000 | 1200 | 60000 | | | | |
| | 9446 | 0,11 | 0,07 | 0,13 | 0,09 | 13000 | 1200 | 60000 | | | | |



| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-----------|--|-------------------|-------------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 13000 Nm | 8427 | 0,12 | 0,08 | 0,15 | 0,10 | 13000 | 1200 | 60000 | İRA İRF İRAF | 143 İR 73 | | | 349 350 351 | 513 527 553 |
| | 7474 | 0,14 | 0,09 | 0,17 | 0,11 | 13000 | 1200 | 60000 | | | | | | |
| | 6732 | 0,15 | 0,10 | 0,19 | 0,13 | 13000 | 1200 | 60000 | | | | | | |
| | 5907 | 0,18 | 0,12 | 0,21 | 0,14 | 13000 | 1200 | 60000 | | | | | | |
| | 5425 | 0,19 | 0,13 | 0,23 | 0,16 | 13000 | 1200 | 60000 | | | | | | |
| | 4839 | 0,22 | 0,14 | 0,26 | 0,18 | 13000 | 1200 | 60000 | | | | | | |
| | 4347 | 0,24 | 0,16 | 0,29 | 0,20 | 13000 | 1200 | 60000 | | | | | | |
| | 3814 | 0,27 | 0,18 | 0,33 | 0,22 | 13000 | 1200 | 60000 | | | | | | |
| | 3404 | 0,31 | 0,21 | 0,37 | 0,25 | 13000 | 1200 | 60000 | | | | | | |
| | 3026 | 0,34 | 0,23 | 0,42 | 0,28 | 13000 | 1200 | 60000 | | | | | | |
| | 2717 | 0,38 | 0,26 | 0,47 | 0,31 | 13000 | 1200 | 60000 | | | | | | |
| | 2184 | 0,47 | 0,32 | 0,57 | 0,39 | 13000 | 1200 | 60000 | | | | | | |
| | 1979 | 0,52 | 0,35 | 0,63 | 0,43 | 13000 | 1200 | 60000 | | | | | | |
| | 1759 | 0,58 | 0,40 | 0,71 | 0,48 | 13000 | 1200 | 60000 | | | | | | |
| | 1596 | 0,64 | 0,44 | 0,78 | 0,53 | 13000 | 1200 | 60000 | | | | | | |
| | 1365 | 0,75 | 0,51 | 0,91 | 0,62 | 13000 | 1200 | 60000 | | | | | | |
| | 1110 | 0,93 | 0,63 | 1,1 | 0,77 | 13000 | 1200 | 60000 | | | | | | |
| | 990 | 1,0 | 0,71 | 1,3 | 0,86 | 13000 | 1200 | 60000 | | | | | | |
| | 889 | 1,2 | 0,79 | 1,4 | 0,96 | 13000 | 1200 | 60000 | | | | | | |
| | 780 | 1,3 | 0,90 | 1,6 | 1,09 | 13000 | 1200 | 60000 | | | | | | |
| | 696 | 1,5 | 1,01 | 1,8 | 1,22 | 13000 | 1200 | 60000 | | | | | | |
| | 595 | 1,7 | 1,18 | 2,1 | 1,43 | 13000 | 1200 | 60000 | | | | | | |
| | 546 | 1,9 | 1,28 | 2,3 | 1,56 | 13000 | 1200 | 60000 | | | | | | |
| | 488 | 2,1 | 1,44 | 2,5 | 1,74 | 13000 | 1200 | 60000 | | | | | | |
| | 438 | 2,3 | 1,60 | 2,8 | 1,94 | 13000 | 1200 | 60000 | | | | | | |
| | 384 | 2,6 | 1,82 | 3,2 | 2,21 | 13000 | 1200 | 60000 | | | | | | |
| | 345 | 2,9 | 2,03 | 3,6 | 2,47 | 13000 | 1200 | 60000 | | | | | | |
| | 308 | 3,3 | 2,28 | 4,0 | 2,76 | 13000 | 1200 | 60000 | | | | | | |
| | 276 | 3,7 | 2,54 | 4,5 | 3,08 | 13000 | 1200 | 60000 | | | | | | |
| | 263 | 3,8 | 2,66 | 4,7 | 3,23 | 13000 | 1200 | 60000 | | | | | | |
| | 236 | 4,3 | 2,97 | 5,2 | 3,60 | 13000 | 1200 | 60000 | | | | | | |
| | 213 | 4,8 | 3,29 | 5,8 | 4,00 | 13000 | 1200 | 60000 | | | | | | |
| | 192 | 5,3 | 3,64 | 6,4 | 4,42 | 13000 | 1200 | 60000 | | | | | | |
| | 175 | 5,8 | 4,01 | 7,0 | 4,87 | 13000 | 1200 | 60000 | | | | | | |
| | 161 | 6,2 | 4,33 | 7,5 | 5,26 | 13000 | 3750 | 60000 | | | | | | |
| | 146 | 6,8 | 4,78 | 8,3 | 5,81 | 13000 | 3750 | 60000 | | | | | | |
| | 133 | 7,5 | 5,27 | 9,1 | 6,40 | 13000 | 3750 | 60000 | | | | | | |
| | 103 | 9,6 | 6,77 | 11,7 | 8,22 | 13000 | 3750 | 60000 | | | | | | |
| | 92,24 | 10,8 | 7,59 | 13,1 | 9,22 | 13000 | 3750 | 60000 | | | | | | |
| | 82,86 | 12,0 | 8,45 | 14,6 | 10 | 13000 | 3750 | 60000 | | | | | | |
| | 72,71 | 13,7 | 9,63 | 16,7 | 12 | 13000 | 3750 | 60000 | | | | | | |
| | 64,89 | 15,4 | 11 | 18,7 | 13 | 13000 | 3750 | 60000 | | | | | | |
| 58,24 | 17,1 | 12 | 20,8 | 15 | 13000 | 3750 | 60000 | | | | | | | |
| 55,48 | 18,0 | 13 | 21,8 | 15 | 13000 | 3750 | 60000 | | | | | | | |
| 49,79 | 20,0 | 14 | 24,3 | 17 | 13000 | 3750 | 60000 | | | | | | | |
| 44,88 | 22,2 | 16 | 27,0 | 19 | 13000 | 3750 | 60000 | | | | | | | |
| 40,61 | 24,6 | 17 | 29,8 | 21 | 13000 | 3750 | 60000 | | | | | | | |
| 36,86 | 27,1 | 19 | 32,8 | 23 | 13000 | 3750 | 60000 | | | | | | | |
| 33,53 | 29,7 | 21 | 36,1 | 25 | 13000 | 3750 | 60000 | | | | | | | |
| 27,90 | 35,7 | 25 | 43,4 | 30 | 13000 | 3750 | 60000 | | | | | | | |
| 23,32 | 42,8 | 30 | 51,9 | 36 | 13000 | 3750 | 60000 | | | | | | | |
| 20,02 | 49,8 | 35 | 60,5 | 42 | 13000 | 3750 | 60000 | | | | | | | |
| 20,02 | 49,0 | 35 | 59,6 | 42 | 13000 | 3750 | 60000 | | | | | | | |
| 18,16 | 54,1 | 39 | 65,7 | 47 | 13000 | 3750 | 60000 | | | | | | | |
| 16,20 | 60,6 | 43 | 73,6 | 52 | 13000 | 3750 | 60000 | | | | | | | |
| 14,56 | 67,5 | 48 | 81,9 | 58 | 13000 | 3750 | 60000 | | | | | | | |
| 12,77 | 76,9 | 55 | 93,4 | 67 | 13000 | 3750 | 60000 | | | | | | | |
| | | | | | | | | İRA İRF İRAF | 143 | | | 337 338 339 | 526 540 566 | |
| | | | | | | | | | İRA İRF İRAF | 142 | | | 337 338 339 | 476 490 516 |



| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------------|-------------------|--|-------------------|----------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | |
| | | | | | | | | | | | | | |
| 13000 Nm | 11,40 | 86,2 | 61 | 105 | 75 | 13000 | 3750 | 60000 | İRA İRF İRAF | 142 | | 337 338 339 | 476 490 516 |
| | 10,23 | 96,0 | 68 | 117 | 83 | 13000 | 3750 | 60000 | | | | | |
| | 9,222 | 106 | 76 | 129 | 92 | 13000 | 3750 | 60000 | | | | | |
| | 8,344 | 118 | 84 | 143 | 102 | 13000 | 3750 | 60000 | | | | | |
| | 7,573 | 130 | 92 | 157 | 112 | 13000 | 3750 | 60000 | | | | | |
| | 6,890 | 143 | 102 | 173 | 123 | 13000 | 3750 | 60000 | | | | | |
| | 5,733 | 171 | 122 | 208 | 148 | 13000 | 3750 | 60000 | | | | | |
| | 4,792 | 205 | 146 | 249 | 177 | 13000 | 3750 | 60000 | | | | | |
| 18000 Nm | 7067 | 0,20 | 0,10 | 0,24 | 0,12 | 18000 | 3750 | 110000 | İRA İRF İRAF | 153 İR 103 | | 379 380 381 | 1170 1220 1240 |
| | 6223 | 0,23 | 0,11 | 0,28 | 0,14 | 18000 | 3750 | 110000 | | | | | |
| | 5577 | 0,26 | 0,13 | 0,31 | 0,15 | 18000 | 3750 | 110000 | | | | | |
| | 5035 | 0,28 | 0,14 | 0,34 | 0,17 | 18000 | 3750 | 110000 | | | | | |
| | 4570 | 0,31 | 0,15 | 0,38 | 0,19 | 18000 | 3750 | 110000 | | | | | |
| | 3586 | 0,40 | 0,20 | 0,48 | 0,24 | 18000 | 3750 | 110000 | | | | | |
| | 3205 | 0,44 | 0,22 | 0,54 | 0,27 | 18000 | 3750 | 110000 | | | | | |
| | 2588 | 0,55 | 0,27 | 0,67 | 0,33 | 18000 | 3750 | 110000 | | | | | |
| | 27213 | 0,05 | 0,03 | 0,06 | 0,03 | 18000 | 2500 | 110000 | | | | | |
| | 23722 | 0,06 | 0,03 | 0,07 | 0,04 | 18000 | 2500 | 110000 | | | | | |
| | 19875 | 0,07 | 0,04 | 0,09 | 0,04 | 18000 | 2500 | 110000 | | | | | |
| | 17651 | 0,08 | 0,04 | 0,10 | 0,05 | 18000 | 2500 | 110000 | | | | | |
| | 16020 | 0,09 | 0,04 | 0,11 | 0,05 | 18000 | 2500 | 110000 | | | | | |
| | 14354 | 0,10 | 0,05 | 0,12 | 0,06 | 18000 | 2500 | 110000 | | | | | |
| | 13011 | 0,11 | 0,05 | 0,13 | 0,07 | 18000 | 2500 | 110000 | | | | | |
| | 11306 | 0,13 | 0,06 | 0,16 | 0,08 | 18000 | 2500 | 110000 | | | | | |
| | 9958 | 0,15 | 0,07 | 0,18 | 0,09 | 18000 | 2500 | 110000 | | | | | |
| | 8987 | 0,16 | 0,08 | 0,20 | 0,09 | 18000 | 2500 | 110000 | | | | | |
| | 7647 | 0,19 | 0,09 | 0,23 | 0,11 | 18000 | 2500 | 110000 | | | | | |
| | 6643 | 0,22 | 0,11 | 0,26 | 0,13 | 18000 | 2500 | 110000 | | | | | |
| | 6078 | 0,24 | 0,12 | 0,29 | 0,14 | 18000 | 2500 | 110000 | | | | | |
| | 5519 | 0,26 | 0,13 | 0,32 | 0,15 | 18000 | 2500 | 110000 | | | | | |
| | 4312 | 0,34 | 0,16 | 0,41 | 0,20 | 18000 | 2500 | 110000 | | | | | |
| | 3704 | 0,39 | 0,19 | 0,47 | 0,23 | 18000 | 2500 | 110000 | | | | | |
| | 3098 | 0,47 | 0,23 | 0,57 | 0,27 | 18000 | 2500 | 110000 | | | | | |
| | 2596 | 0,55 | 0,27 | 0,67 | 0,33 | 18000 | 2500 | 110000 | | | | | |
| | 2288 | 0,62 | 0,31 | 0,76 | 0,37 | 18000 | 2500 | 110000 | | | | | |
| | 2033 | 0,70 | 0,34 | 0,85 | 0,42 | 18000 | 2500 | 110000 | | | | | |
| | 1819 | 0,78 | 0,38 | 0,95 | 0,47 | 18000 | 2500 | 110000 | | | | | |
| | 1637 | 0,87 | 0,43 | 1,1 | 0,52 | 18000 | 2500 | 110000 | | | | | |
| | 1371 | 1,0 | 0,51 | 1,3 | 0,62 | 18000 | 2500 | 110000 | | | | | |
| | 1240 | 1,1 | 0,56 | 1,4 | 0,69 | 18000 | 2500 | 110000 | | | | | |
| | 1024 | 1,4 | 0,68 | 1,7 | 0,83 | 18000 | 2500 | 110000 | | | | | |
| | 825 | 1,7 | 0,85 | 2,1 | 1,03 | 18000 | 2500 | 110000 | | | | | |
| | 784 | 1,8 | 0,89 | 2,2 | 1,08 | 18000 | 2500 | 110000 | | | | | |
| | 695 | 2,0 | 1,01 | 2,4 | 1,22 | 18000 | 2500 | 110000 | | | | | |
| 612 | 2,3 | 1,14 | 2,8 | 1,39 | 18000 | 2500 | 110000 | | | | | | |
| 549 | 2,6 | 1,28 | 3,1 | 1,55 | 18000 | 2500 | 110000 | | | | | | |
| 495 | 2,8 | 1,41 | 3,4 | 1,72 | 18000 | 2500 | 110000 | | | | | | |
| 432 | 3,2 | 1,62 | 3,9 | 1,97 | 18000 | 2500 | 110000 | | | | | | |
| 362 | 3,9 | 1,93 | 4,7 | 2,35 | 18000 | 2500 | 110000 | | | | | | |
| 321 | 4,4 | 2,18 | 5,3 | 2,65 | 18000 | 2500 | 110000 | | | | | | |
| 292 | 4,8 | 2,40 | 5,8 | 2,91 | 18000 | 2500 | 110000 | | | | | | |
| 264 | 5,3 | 2,65 | 6,4 | 3,22 | 18000 | 2500 | 110000 | | | | | | |
| 230 | 6,1 | 3,05 | 7,4 | 3,70 | 18000 | 2500 | 110000 | | | | | | |
| 222 | 6,2 | 3,16 | 7,6 | 3,83 | 18000 | 5250 | 110000 | | | | | | |
| 202 | 6,8 | 3,47 | 8,3 | 4,22 | 18000 | 5250 | 110000 | | | | | | |
| 179 | 7,7 | 3,91 | 9,4 | 4,75 | 18000 | 5250 | 110000 | | | | | | |
| 157 | 8,8 | 4,45 | 10,6 | 5,40 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | İRA İRF İRAF | 154 | | 367 368 369 | 1037 1069 1089 |
| | | | | | | | | | İRA İRF İRAF | 153 | | 361 362 363 | 1006 1056 1076 |

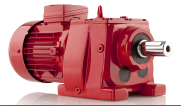


| Service Factor Factor de servicio $S_f = 1$ | i Ratio Relación de transmisión | 50 Hz | | 60 Hz | | M_2 Output Torque Par de salida [Nm] | F_{Q1} Over Loads Sobrecargas [N] | F_{Q10} Over Loads Sobrecargas [N] | Type Tipo | | | kg | | |
|---|---------------------------------------|------------------------------------|--|------------------------------------|--|---|--|---|--------------|---|------------|----|-------------|-------------------|
| | | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=700rpm$) | P_1 Power Potencia [kW] | n_2 Output Speeds Velocidad de salida [r.p.m] ($n_1=850rpm$) | | | | | | | | | |
| | | 18000 Nm | 141 | 9,8 | 4,96 | | | | | | | | 11,9 | 6,02 |
| 127 | 10,8 | | 5,49 | 13,2 | 6,67 | 18000 | 5250 | 110000 | | | | | | |
| 111 | 12,4 | | 6,30 | 15,1 | 7,65 | 18000 | 5250 | 110000 | | | | | | |
| 93,05 | 14,8 | | 7,52 | 18,0 | 9,14 | 18000 | 5250 | 110000 | | | | | | |
| 82,63 | 16,7 | | 8,47 | 20,3 | 10 | 18000 | 5250 | 110000 | | | | | | |
| 75,00 | 18,4 | | 9,33 | 22,4 | 11 | 18000 | 5250 | 110000 | | | | | | |
| 67,98 | 20,3 | | 10 | 24,7 | 13 | 18000 | 5250 | 110000 | | | | | | |
| 59,07 | 23,4 | | 12 | 28,4 | 14 | 18000 | 5250 | 110000 | | | | | | |
| 52,03 | 26,5 | | 13 | 32,2 | 16 | 18000 | 5250 | 110000 | | | | | | |
| 44,27 | 31,2 | | 16 | 37,9 | 19 | 18000 | 5250 | 110000 | | | | | | |
| 38,46 | 35,9 | | 18 | 43,6 | 22 | 18000 | 5250 | 110000 | | | | | | |
| 35,19 | 39,2 | | 20 | 47,6 | 24 | 18000 | 5250 | 110000 | | | | | | |
| 27,50 | 50,2 | | 25 | 61,0 | 31 | 18000 | 5250 | 110000 | | | | | | |
| 23,62 | 58,5 | | 30 | 71,0 | 36 | 18000 | 5250 | 110000 | | | | | | |
| 28,55 | 48,4 | | 25 | 58,7 | 30 | 18000 | 5250 | 110000 | | | | | | |
| 25,93 | 53,2 | | 27 | 64,7 | 33 | 18000 | 5250 | 110000 | | | | | | |
| 23,57 | 58,6 | | 30 | 71,1 | 36 | 18000 | 5250 | 110000 | | | | | | |
| 21,09 | 65,5 | | 33 | 79,5 | 40 | 18000 | 5250 | 110000 | | | | | | |
| 19,00 | 72,7 | | 37 | 88,2 | 45 | 18000 | 5250 | 110000 | | | | | | |
| 17,22 | 80,2 | | 41 | 97,3 | 49 | 18000 | 5250 | 110000 | | | | | | |
| 15,69 | 88,0 | | 45 | 107 | 54 | 18000 | 5250 | 110000 | | | | | | |
| 14,35 | 96,2 | | 49 | 117 | 59 | 18000 | 5250 | 110000 | | | | | | |
| 11,22 | 123 | | 62 | 149 | 76 | 18000 | 5250 | 110000 | | | | | | |
| 10,70 | 129 | | 65 | 157 | 79 | 18000 | 5250 | 110000 | | | | | | |
| 9,744 | 142 | | 72 | 172 | 87 | 18000 | 5250 | 110000 | | | | | | |
| 8,915 | 155 | | 79 | 188 | 95 | 18000 | 5250 | 110000 | | | | | | |
| 8,186 | 169 | | 86 | 205 | 104 | 18000 | 5250 | 110000 | | | | | | |
| 6,965 | 198 | | 101 | 241 | 122 | 18000 | 5250 | 110000 | | | | | | |
| 5,983 | 231 | | 117 | 280 | 142 | 18000 | 5250 | 110000 | | | | | | |
| | | | | | | | | | | IRA IRF IRAF | 152 | | | 361 362 363 |

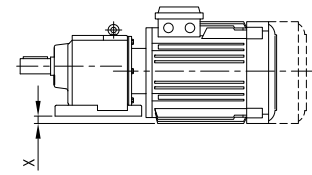
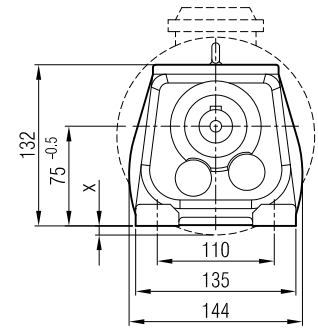
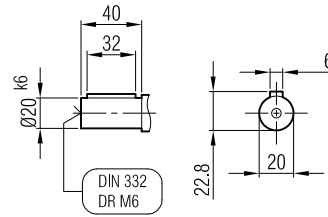
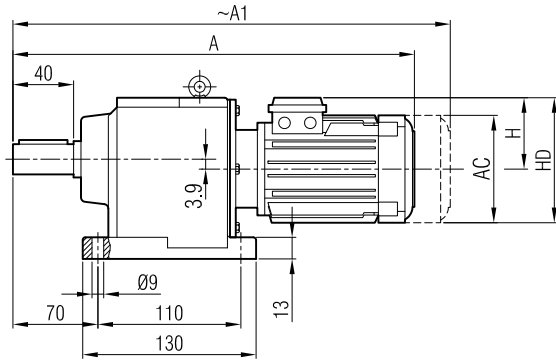


Dimensions Pages

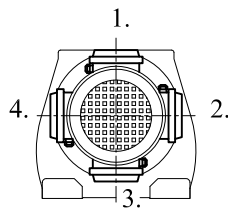
Dimensiones



İRAM 42
İRAM 43



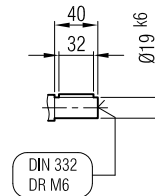
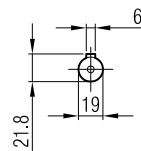
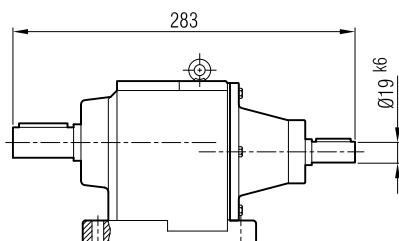
Terminal Box Positions
Posiciones de la caja de terminales

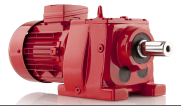


| | 63 | 71 | 80 | 90 S | 90 L | | |
|----|-----|-----|-----|------|------|--|--|
| A | 352 | 385 | 415 | 445 | 470 | | |
| A1 | 408 | 436 | 484 | 511 | 536 | | |
| H | 97 | 111 | 118 | 126 | 126 | | |
| HD | 160 | 182 | 198 | 216 | 216 | | |
| AC | 121 | 138 | 156 | 176 | 176 | | |
| x | - | - | 7 | 17 | 17 | | |

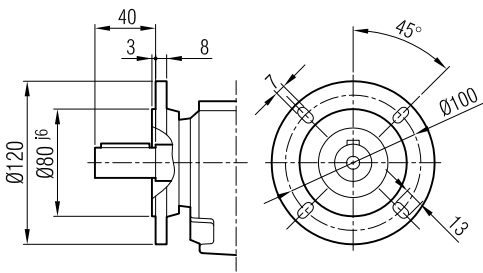
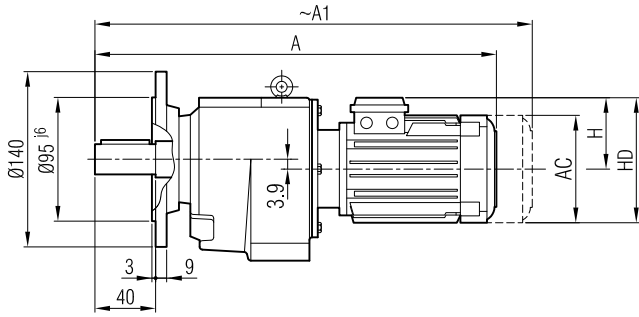
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 42
İRA 43



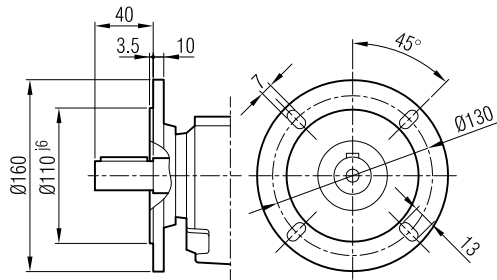


İRFM 42
İRFM 43



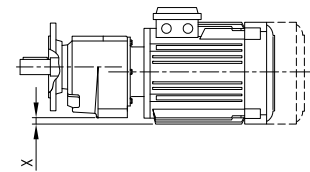
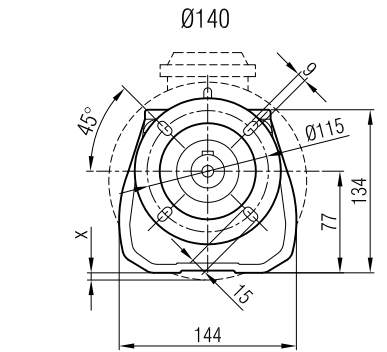
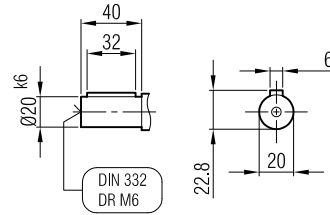
Ø120

(Opsiyonel / Optional / Opcional)

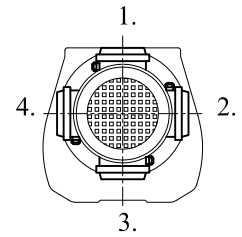


Ø160

(Opsiyonel / Optional / Opcional)



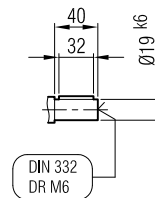
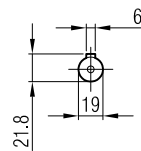
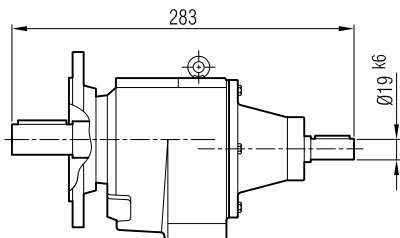
Terminal Box Positions
Posiciones de la caja de terminales

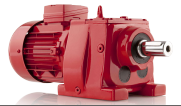


| | 63 | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|-----|------|------|--|--|
| A | 352 | 385 | 415 | 445 | 470 | | |
| A ₁ | 408 | 436 | 484 | 511 | 536 | | |
| H | 97 | 111 | 118 | 126 | 126 | | |
| HD | 160 | 182 | 198 | 216 | 216 | | |
| AC | 121 | 138 | 156 | 176 | 176 | | |
| x | - | - | 7 | 17 | 17 | | |

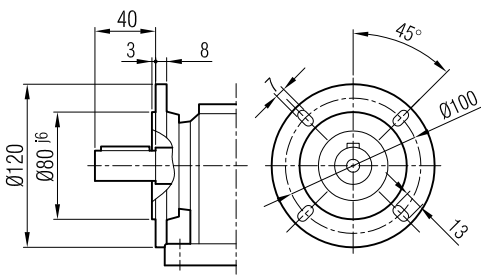
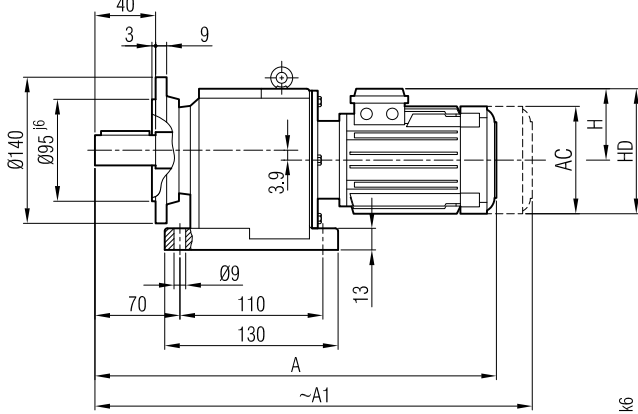
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 42
İRF 43



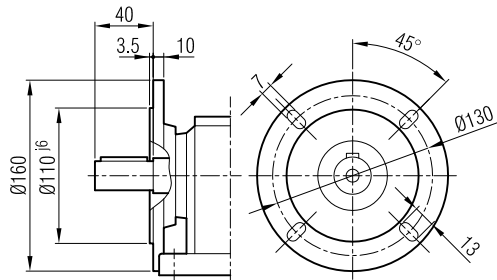


İRAF 42
İRAF 43



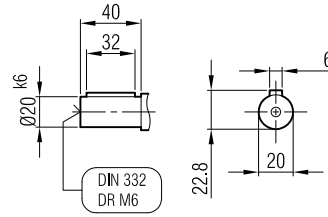
Ø120

(Opsiyonel / Optional / Opcional)

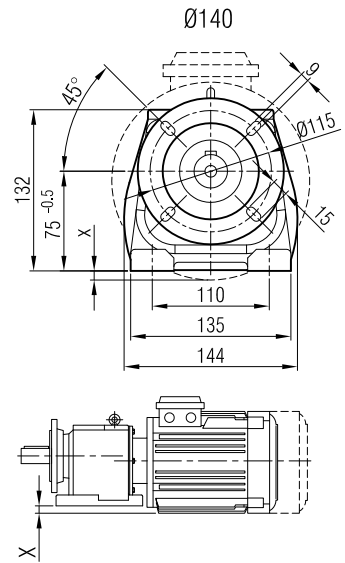


Ø160

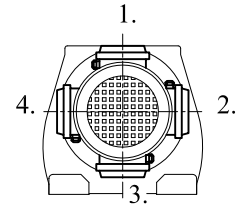
(Opsiyonel / Optional / Opcional)



DIN 332
DR M6



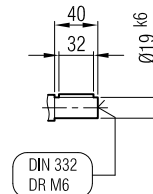
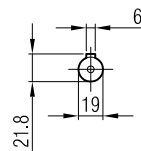
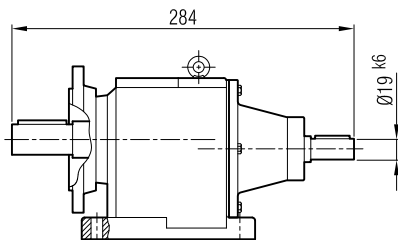
Terminal Box Positions
Posiciones de la caja de terminales



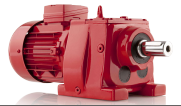
| | 63 | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|-----|------|------|--|--|
| A | 352 | 385 | 415 | 445 | 470 | | |
| A ₁ | 408 | 436 | 484 | 511 | 536 | | |
| H | 97 | 111 | 118 | 126 | 126 | | |
| HD | 160 | 182 | 198 | 216 | 216 | | |
| AC | 121 | 138 | 156 | 176 | 176 | | |
| x | - | - | 7 | 17 | 17 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

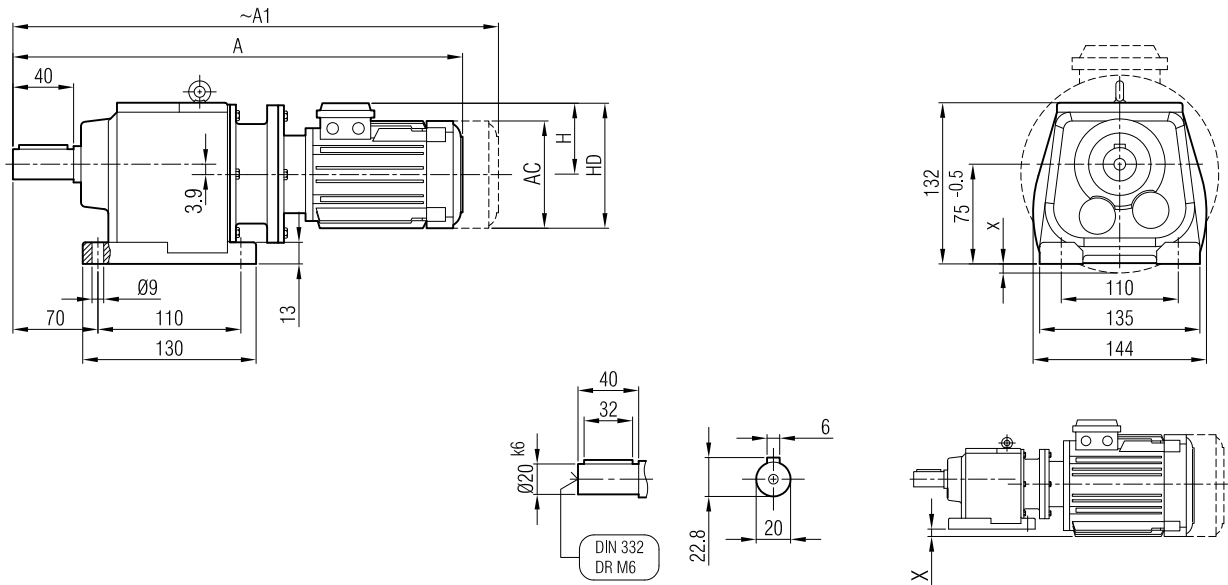
İRAF 42
İRAF 43



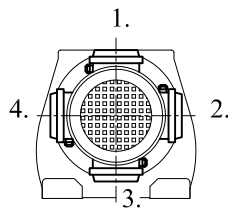
DIN 332
DR M6



İRAPM 42
İRAPM 43



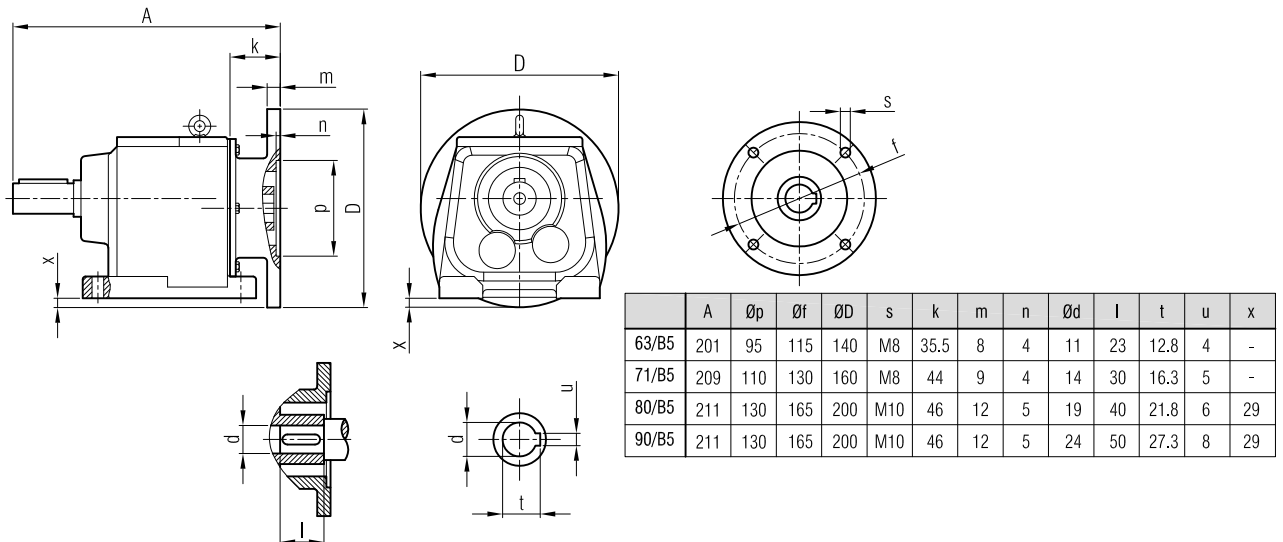
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 397 | 432 | 455 | 470 | 495 |
| A ₁ | 453 | 483 | 524 | 536 | 561 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |
| x | - | - | 7 | 17 | 17 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

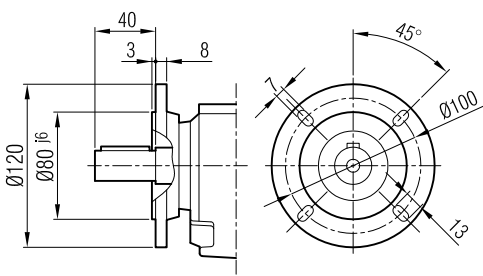
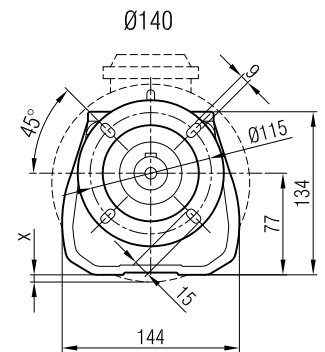
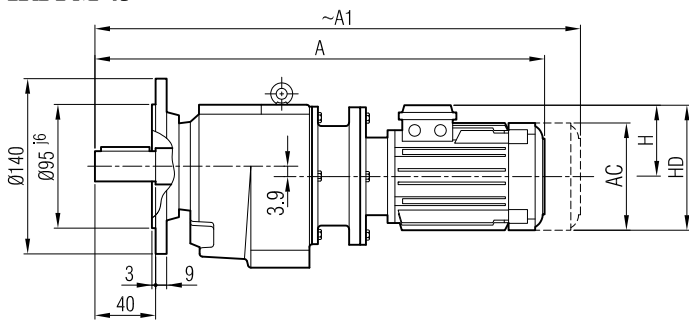
İRAP 42
İRAP 43



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 201 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 209 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 29 |
| 90/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 29 |

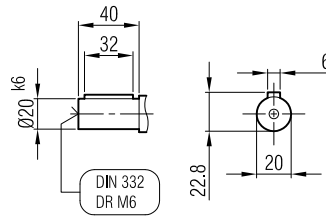


İRFPM 42
İRFPM 43

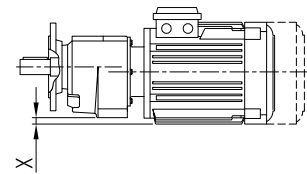


Ø120

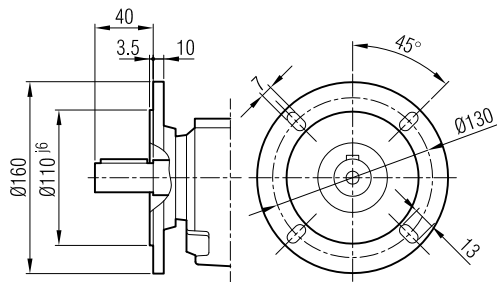
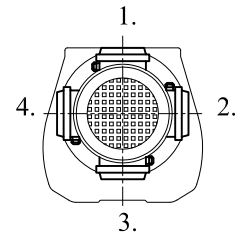
(Opsiyonel / Optional / Opcional)



DIN 332
DR M6



Terminal Box Positions
Posiciones de la caja de terminales



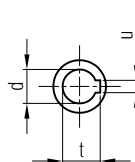
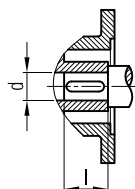
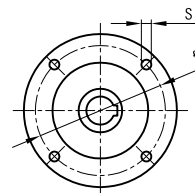
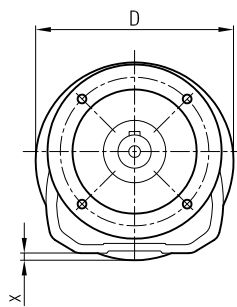
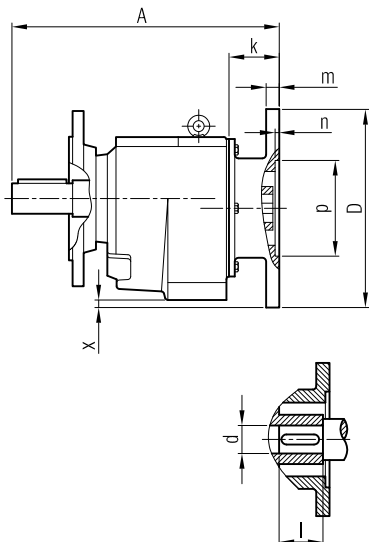
Ø160

(Opsiyonel / Optional / Opcional)

| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 397 | 432 | 455 | 470 | 495 |
| A ₁ | 453 | 483 | 524 | 536 | 561 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |
| x | - | - | 7 | 17 | 17 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

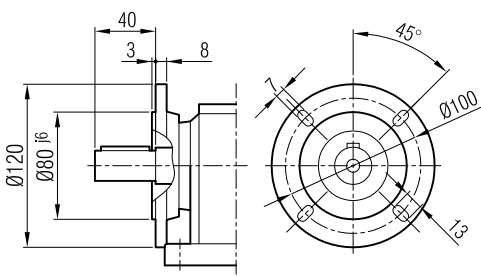
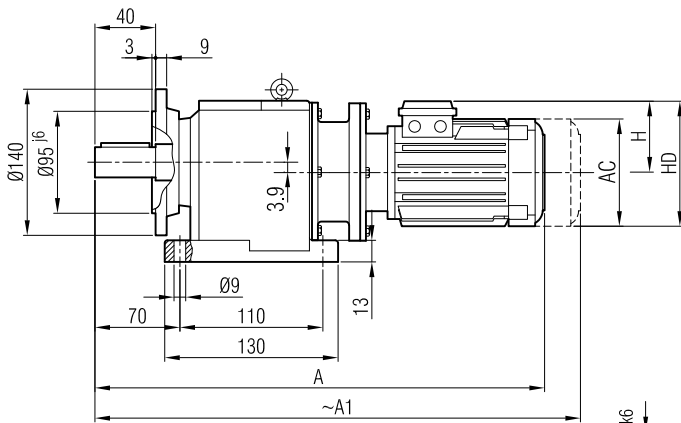
İRFP 42
İRFP 43



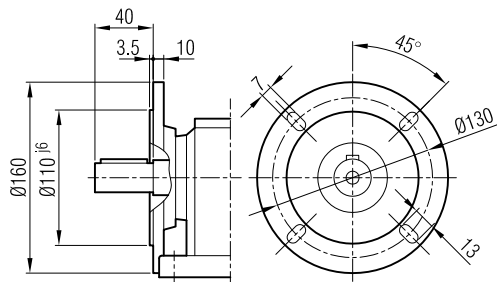
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 201 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 209 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 29 |
| 90/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 29 |



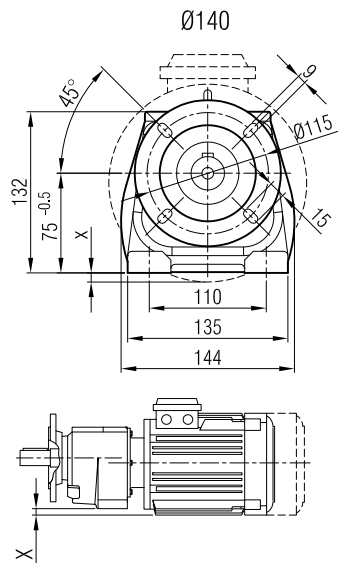
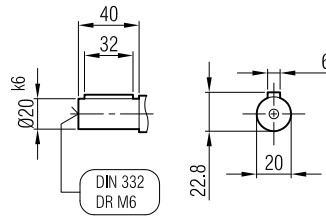
İRAFFPM 42
İRAFFPM 43



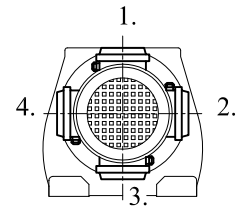
Ø120
(Opsiyonel / Optional / Opcional)



Ø160
(Opsiyonel / Optional / Opcional)



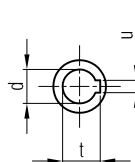
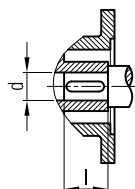
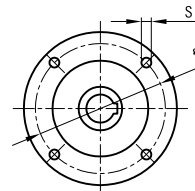
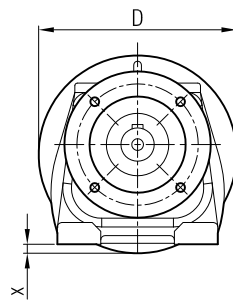
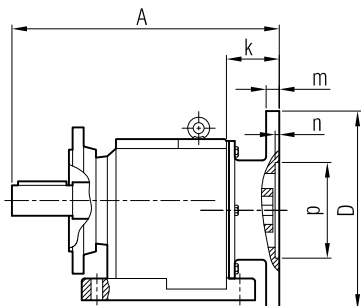
Terminal Box Positions
Posiciones de la caja de terminales



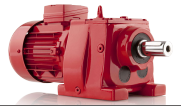
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 397 | 432 | 455 | 470 | 495 |
| A ₁ | 453 | 483 | 524 | 536 | 561 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |
| x | - | - | 7 | 17 | 17 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

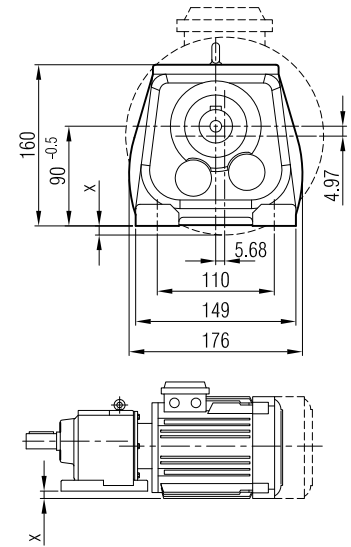
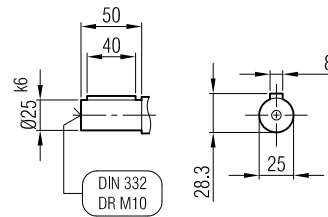
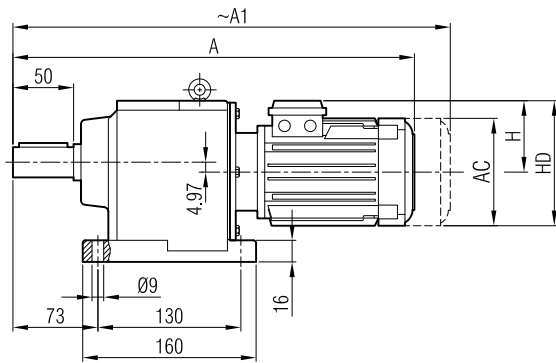
İRAFP 42
İRAFP 43



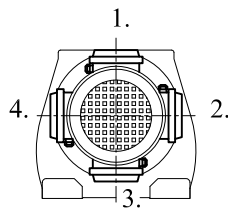
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 201 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 209 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 29 |
| 90/B5 | 211 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 29 |



İRAM 52
İRAM 53



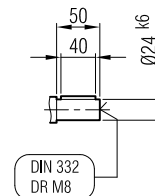
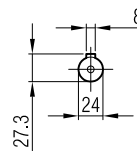
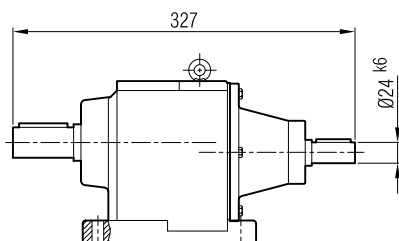
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|-----|------|------|-----|--|--|
| A | 416 | 443 | 472 | 497 | 537 | | |
| A ₁ | 467 | 512 | 538 | 563 | 615 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |
| x | - | - | 3 | 3 | 12 | | |

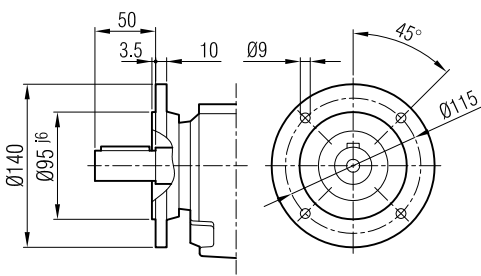
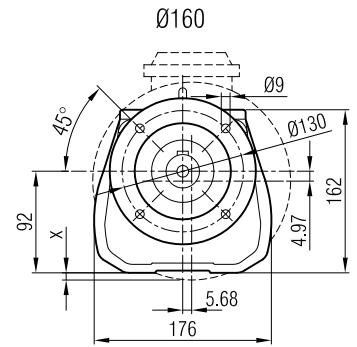
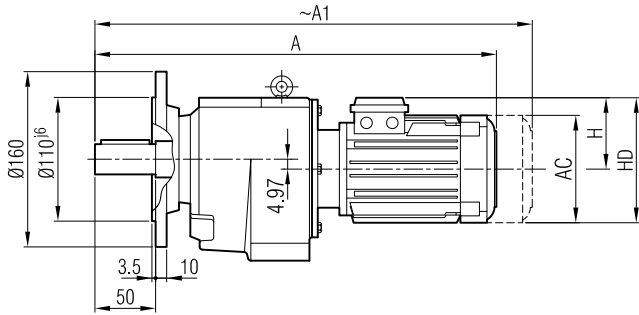
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 52
İRA 53

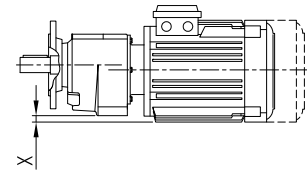
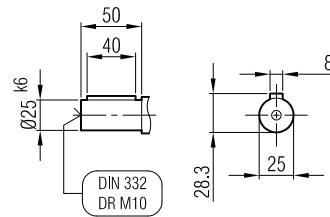




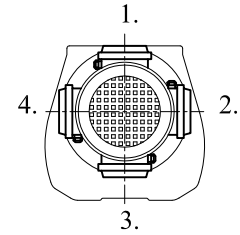
İRFM 52
İRFM 53



Ø140
(Opsiyonel / Optional / Opcional)



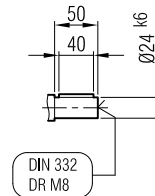
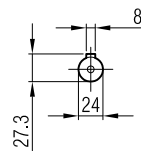
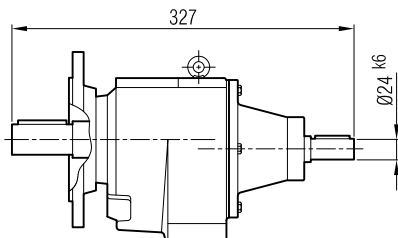
Terminal Box Positions
Posiciones de la caja de terminales

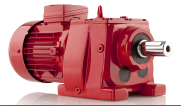


| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|-----|------|------|-----|--|--|
| A | 416 | 443 | 472 | 497 | 537 | | |
| A ₁ | 467 | 512 | 538 | 563 | 615 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |
| x | - | - | 3 | 3 | 12 | | |

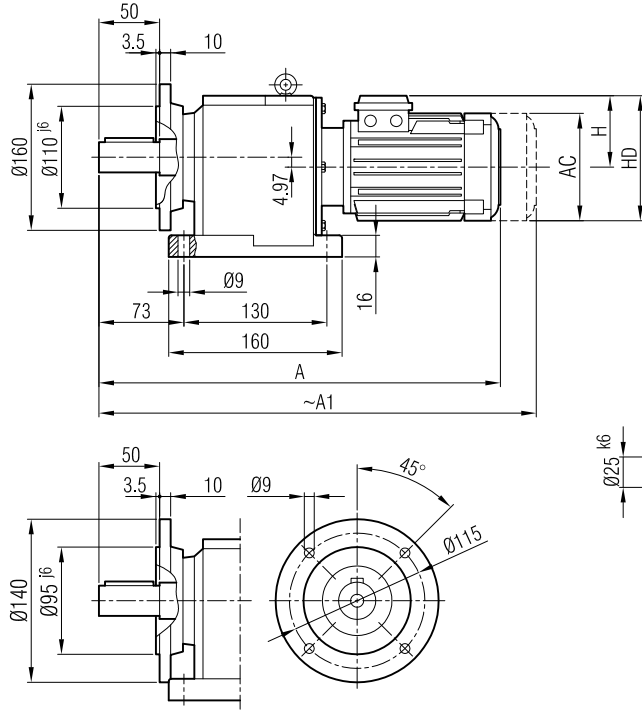
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 52
İRF 53

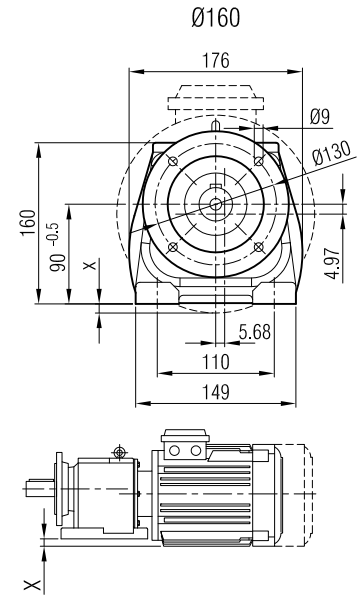
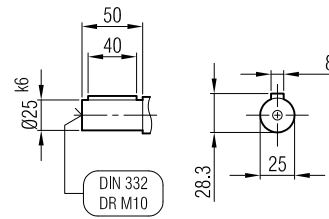




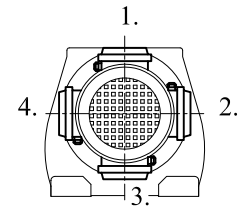
İRAF52
İRAF53



Ø140
(Opsiyonel / Optional / Opcional)



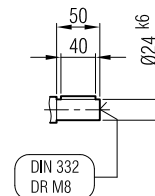
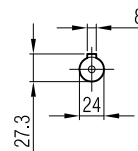
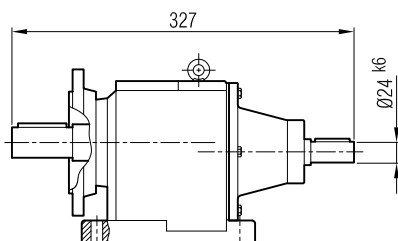
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|-----|------|------|-----|--|--|
| A | 416 | 443 | 472 | 497 | 537 | | |
| A ₁ | 467 | 512 | 538 | 563 | 615 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |
| x | - | - | 3 | 3 | 12 | | |

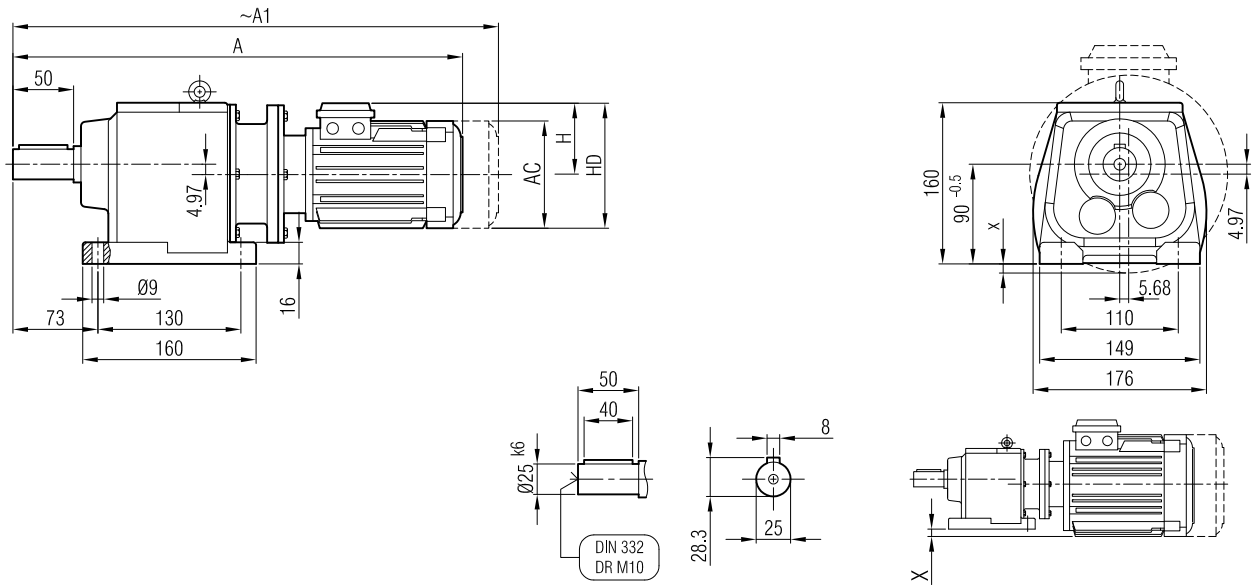
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 52
İRAF 53

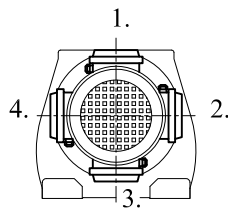




İRAPM 52
İRAPM 53



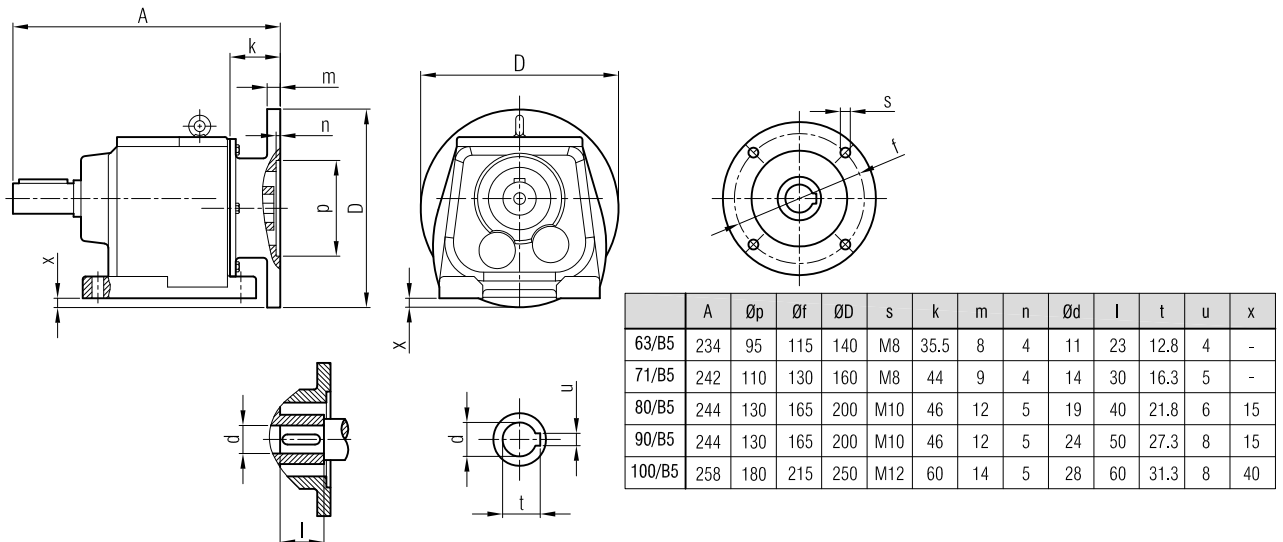
Terminal Box Positions
Posiciones de la caja de terminales



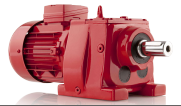
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----|-------|-------|-------|---------|---------|--------|
| A | 430 | 465 | 488 | 503 | 528 | 574 |
| A1 | 486 | 516 | 557 | 569 | 594 | 652 |
| H | 97 | 111 | 118 | 126 | 126 | 134 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 |
| x | - | - | - | 3 | 3 | 12 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

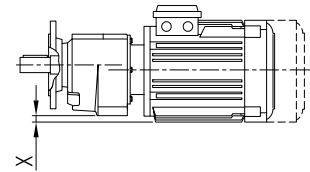
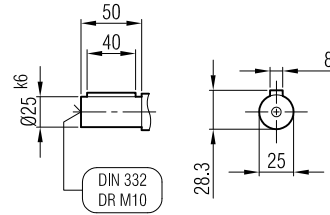
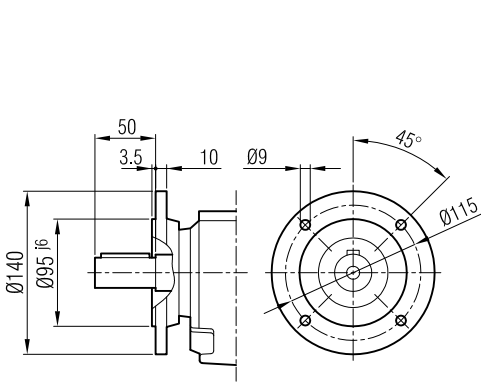
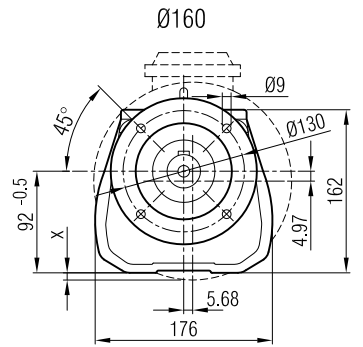
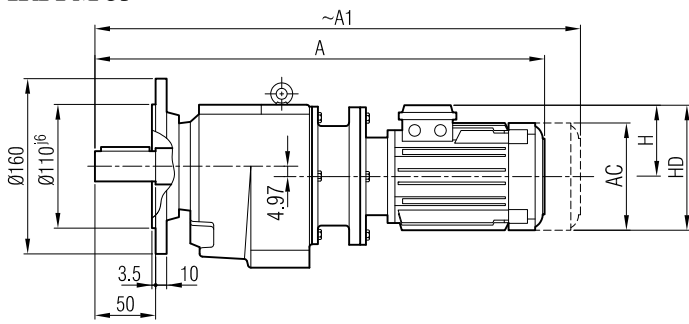
İRAP 52
İRAP 53



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 234 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 242 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 15 |
| 90/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 15 |
| 100/B5 | 258 | 180 | 215 | 250 | M12 | 60 | 14 | 5 | 28 | 60 | 31.3 | 8 | 40 |

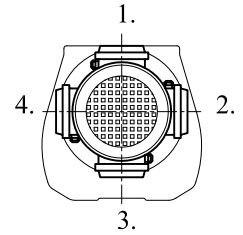


İRFPM 52
İRFPM 53



Ø140
(Opsiyonel / Optional / Opcional)

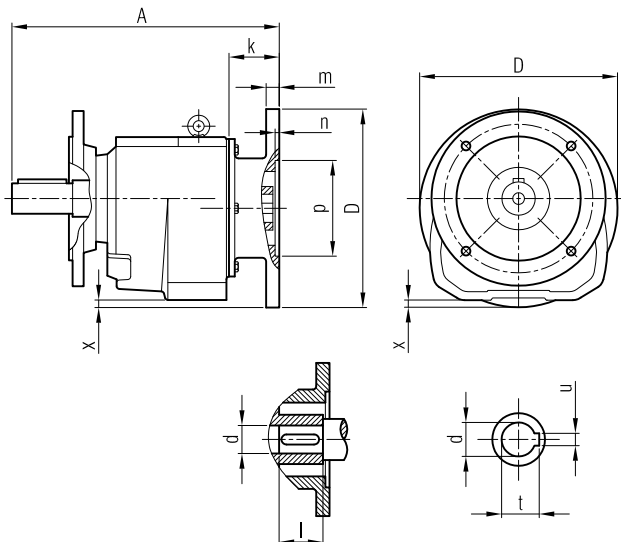
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----|-------|-------|-------|---------|---------|--------|
| A | 430 | 465 | 488 | 503 | 528 | 574 |
| A1 | 486 | 516 | 557 | 569 | 594 | 652 |
| H | 97 | 111 | 118 | 126 | 126 | 134 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 |
| x | - | - | - | 3 | 3 | 12 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

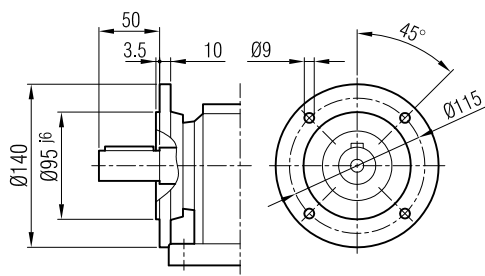
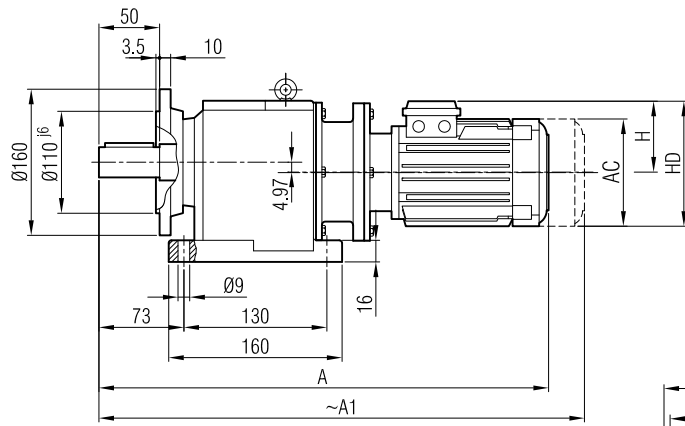
İRFP 52
İRFP 53



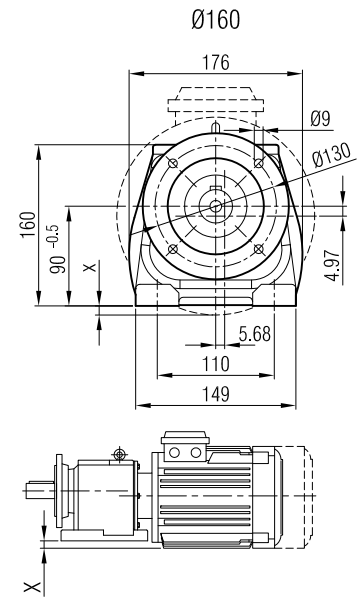
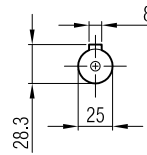
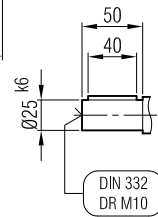
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 234 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 242 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 15 |
| 90/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 15 |
| 100/B5 | 258 | 180 | 215 | 250 | M12 | 60 | 14 | 5 | 28 | 60 | 31.3 | 8 | 40 |



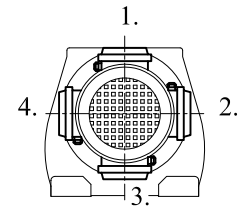
İRAFPM 52
İRAFPM 53



Ø140
(Opsiyonel / Optional / Opcional)



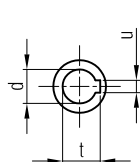
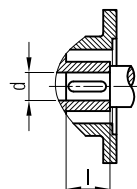
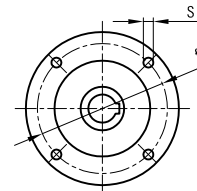
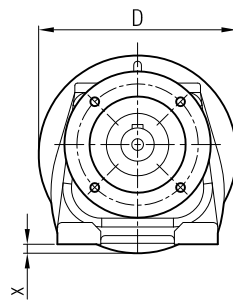
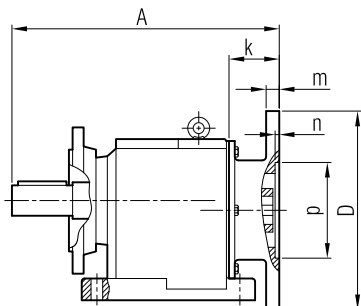
Terminal Box Positions
Posiciones de la caja de terminales



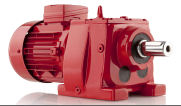
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----|-------|-------|-------|---------|---------|--------|
| A | 430 | 465 | 488 | 503 | 528 | 574 |
| A1 | 486 | 516 | 557 | 569 | 594 | 652 |
| H | 97 | 111 | 118 | 126 | 126 | 134 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 |
| x | - | - | - | 3 | 3 | 12 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

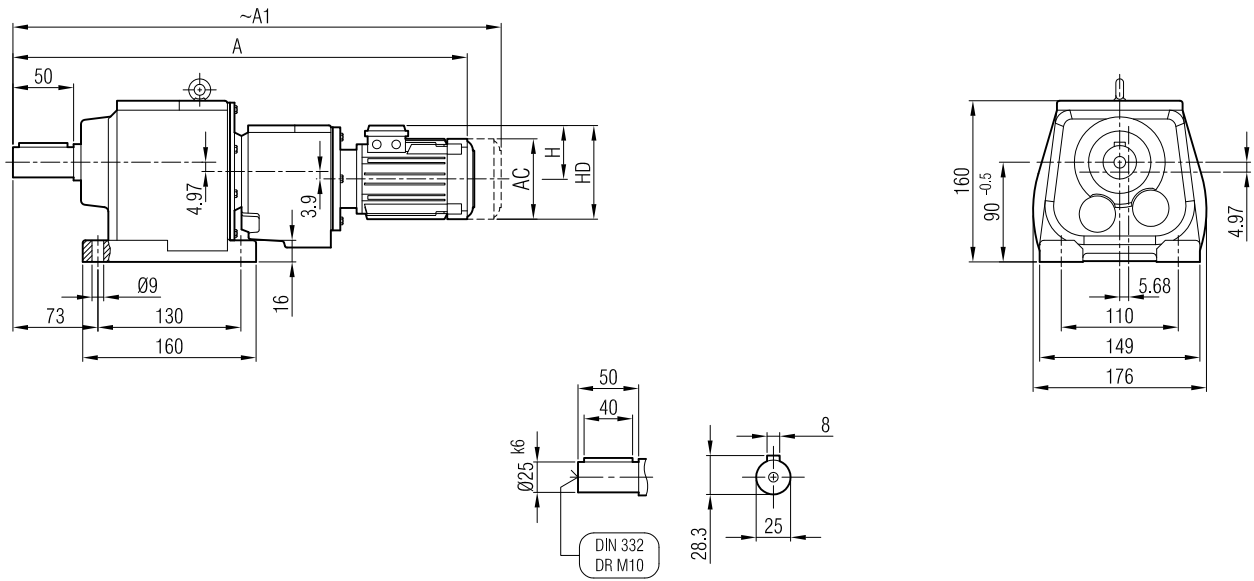
İRAFP 52
İRAFP 53



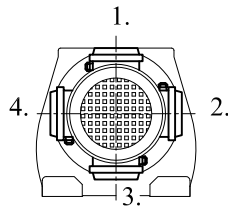
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|----|
| 63/B5 | 234 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 242 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 | 15 |
| 90/B5 | 244 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 | 15 |
| 100/B5 | 258 | 180 | 215 | 250 | M12 | 60 | 14 | 5 | 28 | 60 | 31.3 | 8 | 40 |



İRAM 53 İR 42



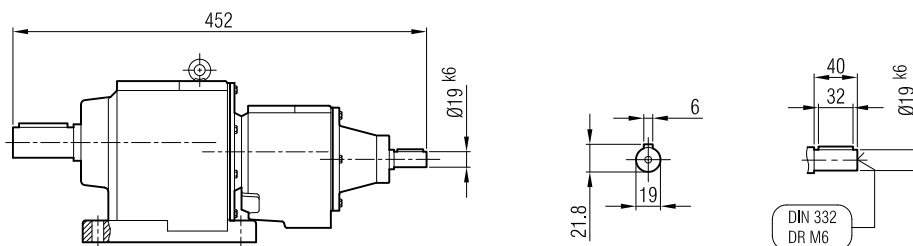
Terminal Box Positions
Posiciones de la caja de terminales

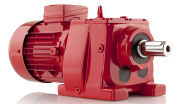


| | 63 | 71 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 510 | 543 | | | | |
| A ₁ | 566 | 594 | | | | |
| H | 97 | 111 | | | | |
| HD | 160 | 182 | | | | |
| AC | 121 | 138 | | | | |

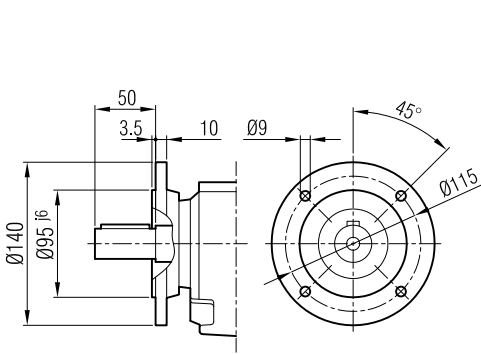
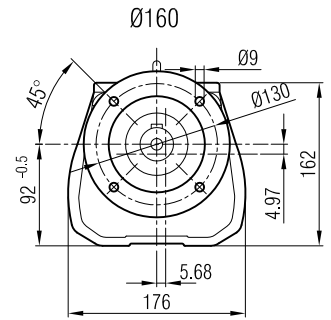
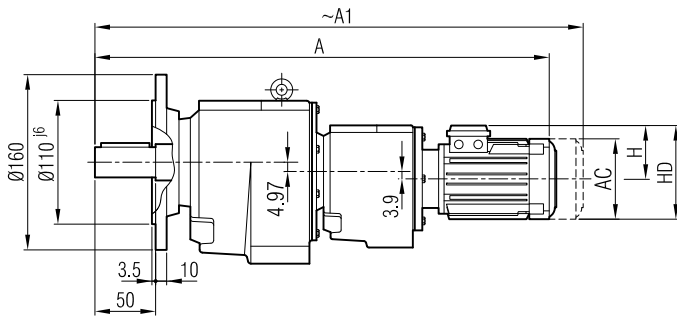
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 52 İR 42 / İRA 52 İR 43
İRA 53 İR 42 / İRA 53 İR 43

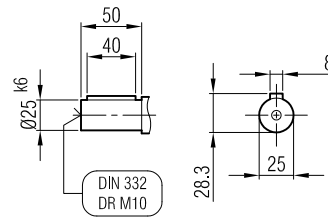




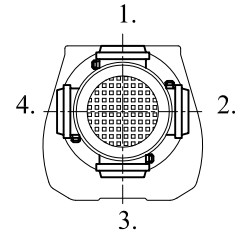
İRFM 53 İR 42



Ø140
(Opsiyonel / Optional / Opcional)



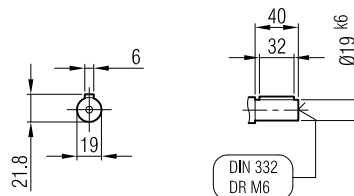
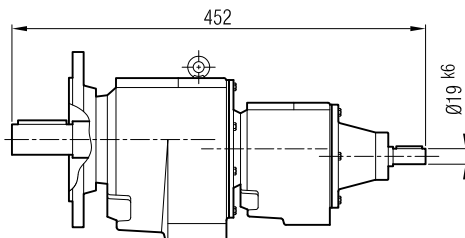
Terminal Box Positions
Posiciones de la caja de terminales

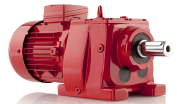


| | 63 | 71 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 510 | 543 | | | | |
| A ₁ | 566 | 594 | | | | |
| H | 97 | 111 | | | | |
| HD | 160 | 182 | | | | |
| AC | 121 | 138 | | | | |

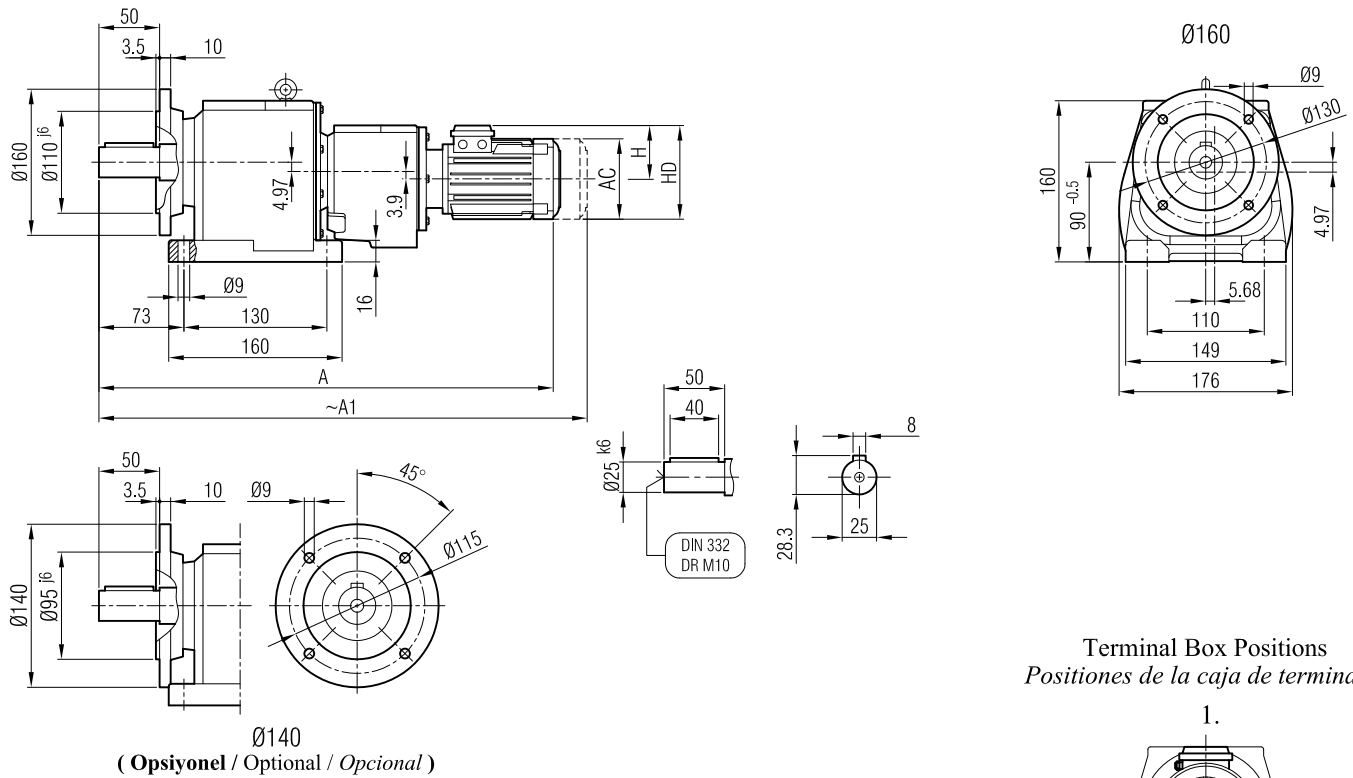
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 52 İR 42 / İRF 52 İR 43
İRF 53 İR 42 / İRF 53 İR 43

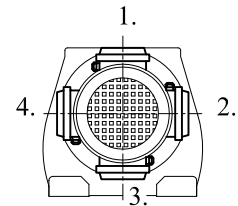




İRAF 53 İR 42



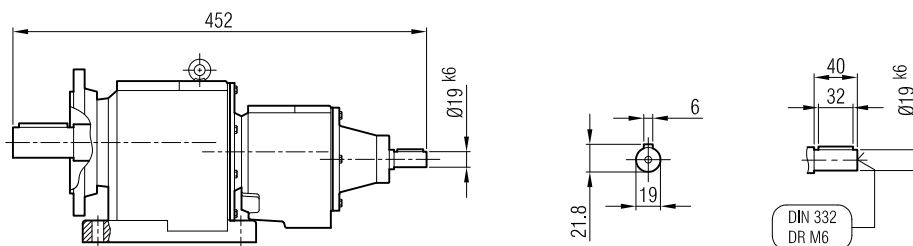
Terminal Box Positions
Posiciones de la caja de terminales

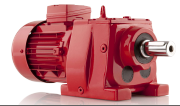


| | 63 | 71 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 510 | 543 | | | | |
| A ₁ | 566 | 594 | | | | |
| H | 97 | 111 | | | | |
| HD | 160 | 182 | | | | |
| AC | 121 | 138 | | | | |

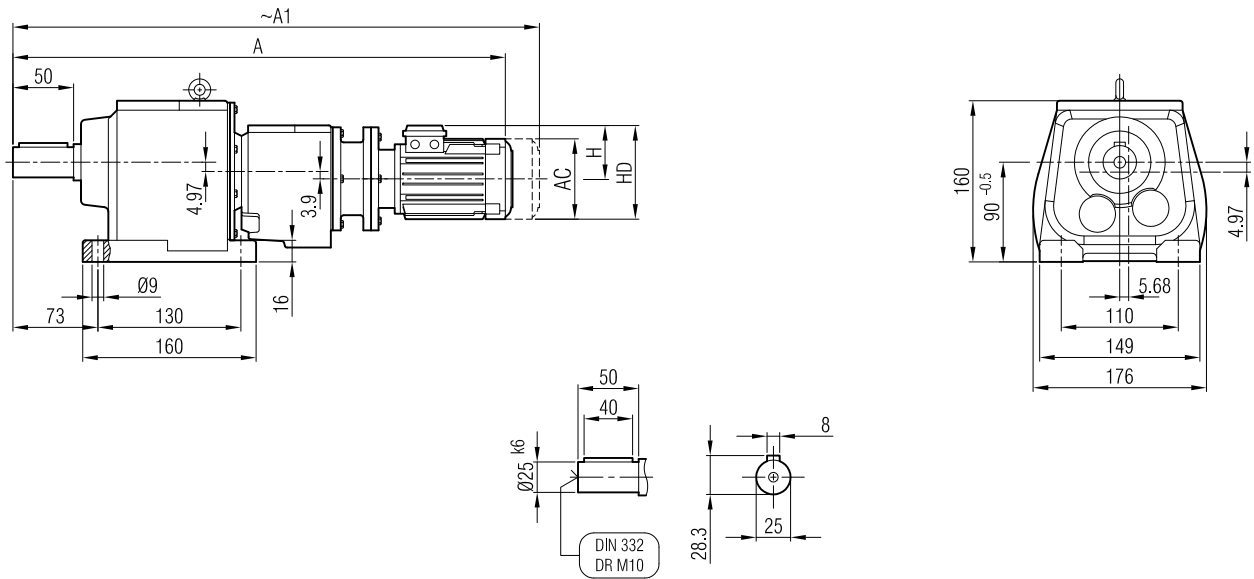
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

**İRAF 52 İR 42 / İRAF 52 İR 43
İRAF 53 İR 42 / İRAF 53 İR 43**

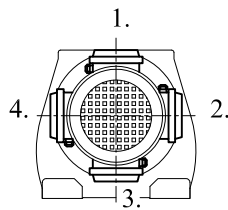




İRAPM 53 İR 42



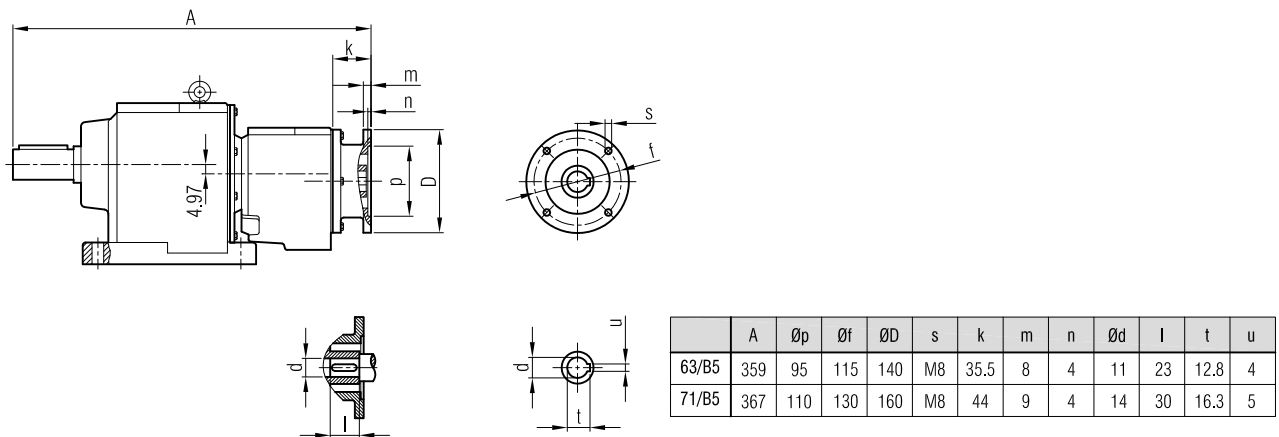
Terminal Box Positions
Posiciones de la caja de terminales



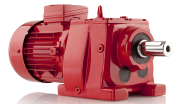
| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 555 | 590 | | | |
| A ₁ | 611 | 641 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

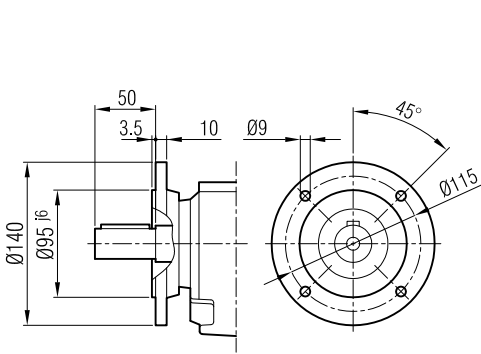
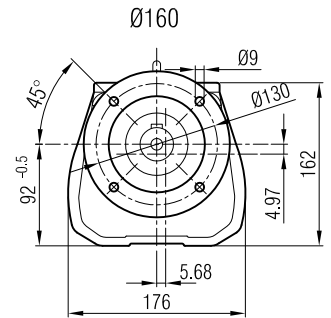
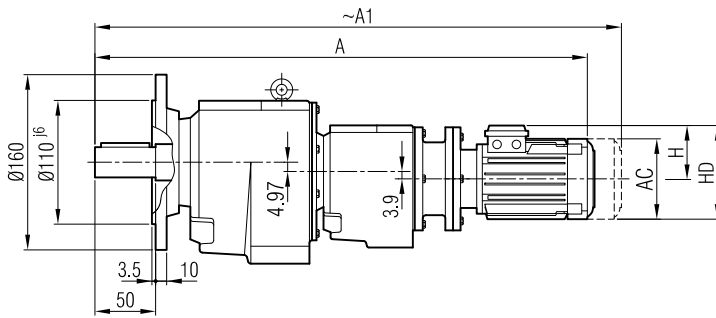
İRAP 52 İR 42 / İRAP 52 İR 43
İRAP 53 İR 42 / İRAP 53 İR 43



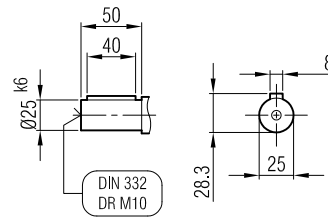
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 359 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 367 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



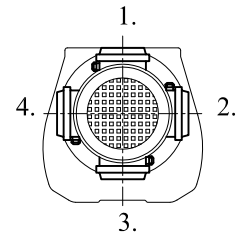
İRFPM 53 İR 42



Ø140
(Opsiyonel / Optional / Opcional)



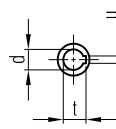
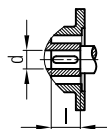
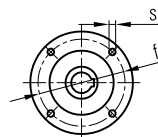
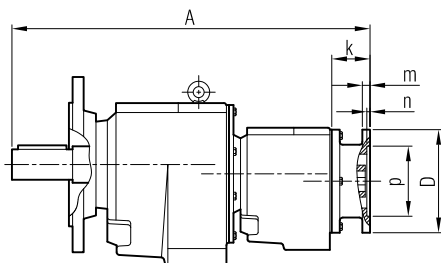
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 555 | 590 | | | |
| A ₁ | 611 | 641 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

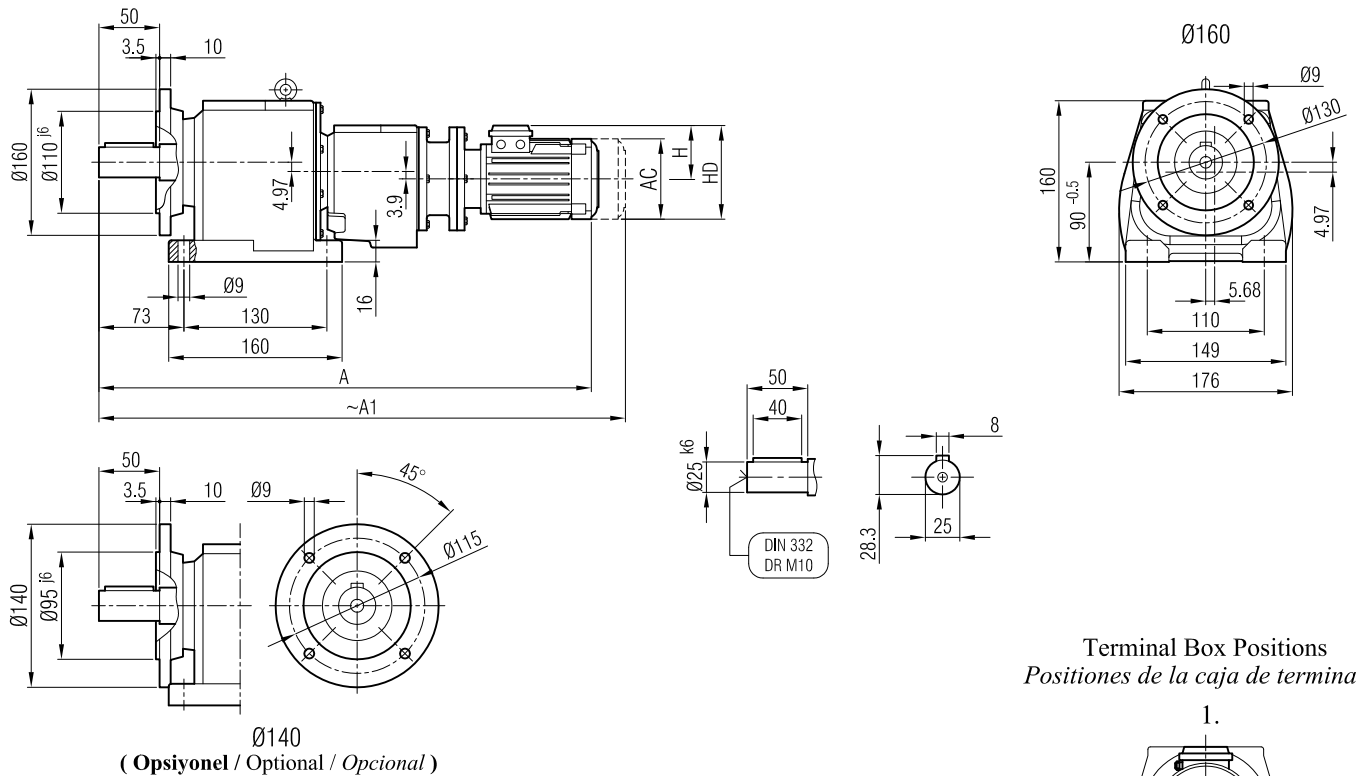
İRFP 52 İR 42 / İRFP 52 İR 43
İRFP 53 İR 42 / İRFP 53 İR 43



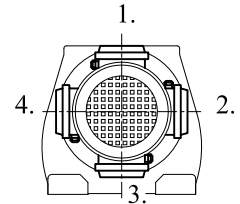
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 359 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 367 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



İRAFPM 53 İR 42



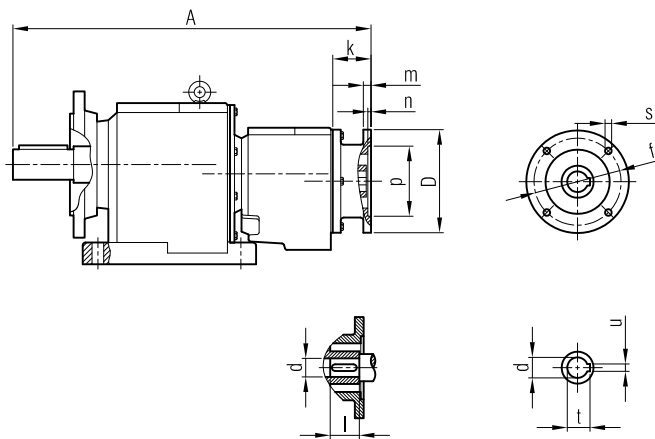
Terminal Box Positions
Posiciones de la caja de terminales



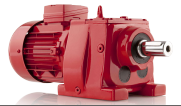
| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 555 | 590 | | | |
| A ₁ | 611 | 641 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

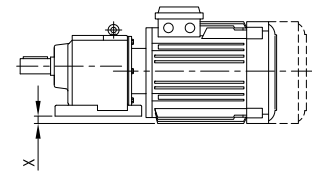
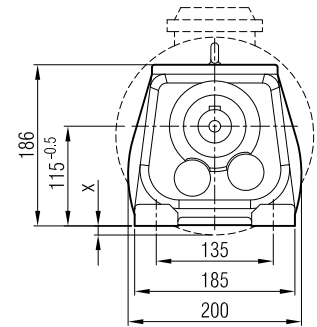
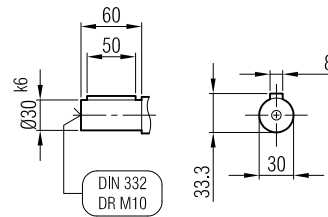
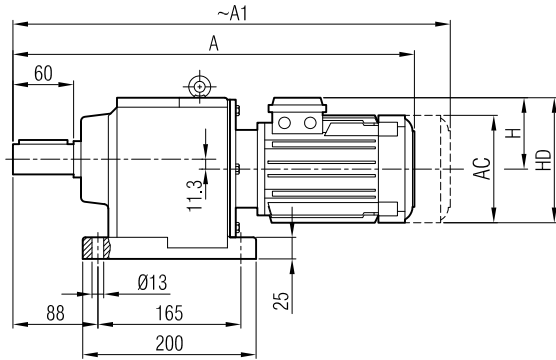
İRAFP 52 İR 42 / İRAFP 52 İR 43
İRAFP 53 İR 42 / İRAFP 53 İR 43



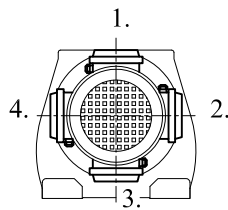
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 359 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 367 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



İRAM 621
İRAM 631



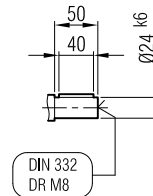
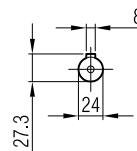
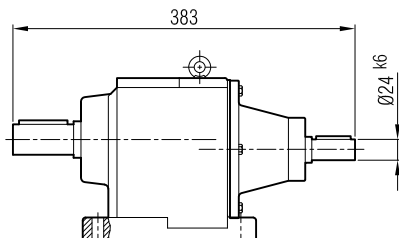
Terminal Box Positions
Posiciones de la caja de terminales

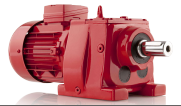


| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 451 | 481 | 511 | 536 | 575 | 595 | 641 |
| A ₁ | 502 | 550 | 577 | 602 | 653 | 678 | 741 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

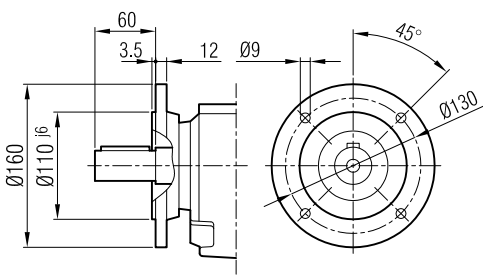
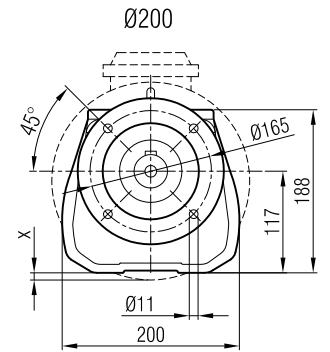
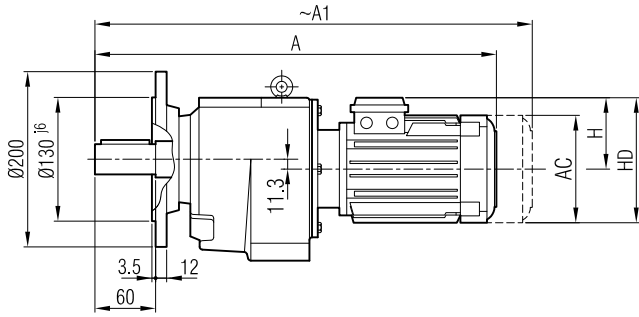
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 621
İRA 631

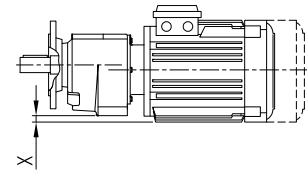
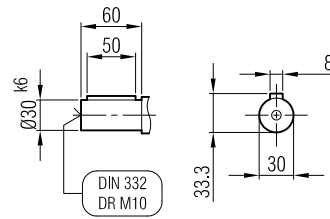




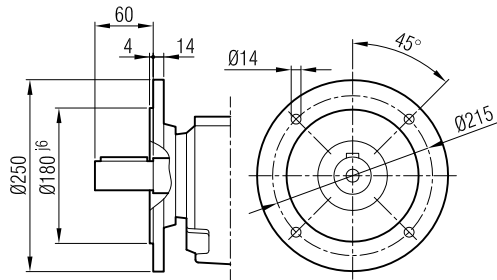
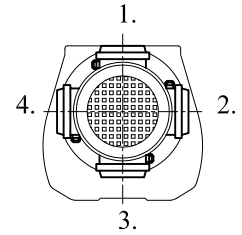
İRFM 621
İRFM 631



Ø160
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

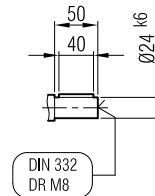
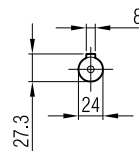
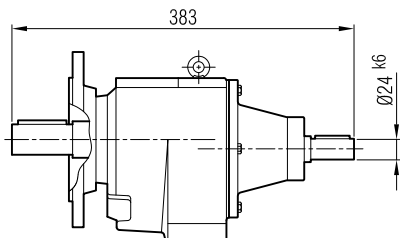


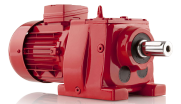
Ø250
(Opsiyonel / Optional / Opcional)

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 451 | 481 | 511 | 536 | 575 | 595 | 641 |
| A ₁ | 502 | 550 | 577 | 602 | 653 | 678 | 741 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

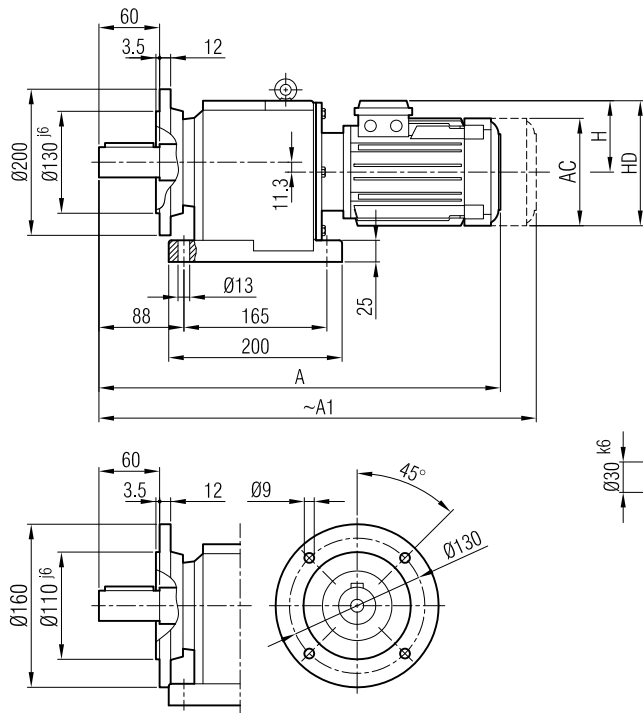
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 621
İRF 631

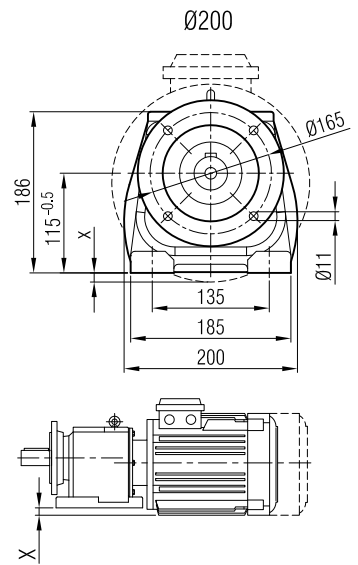
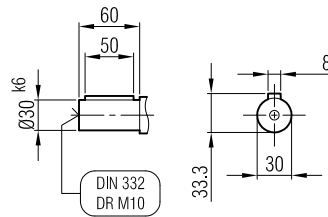




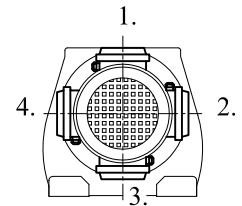
İRAF 621
İRAF 631



Ø160
(Opsiyonel / Optional / Opcional)



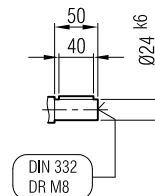
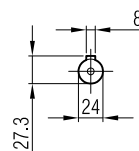
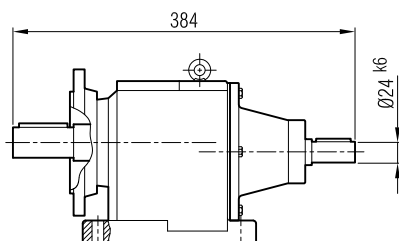
Terminal Box Positions
Posiciones de la caja de terminales

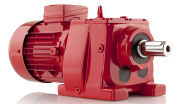


| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 451 | 481 | 511 | 536 | 575 | 595 | 641 |
| A ₁ | 502 | 550 | 577 | 602 | 653 | 678 | 741 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

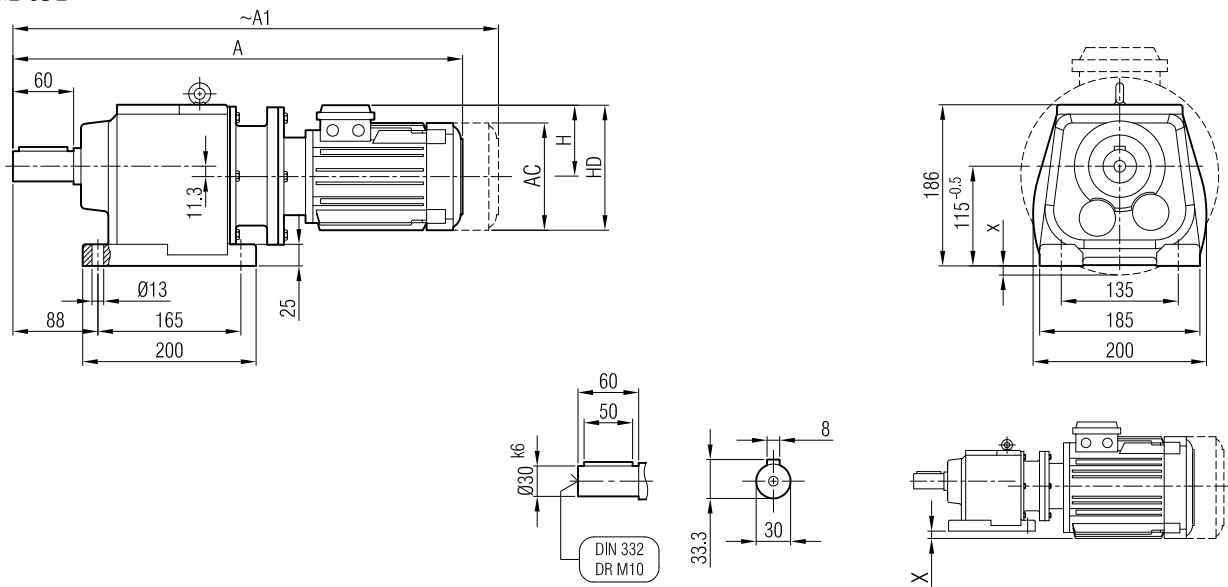
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 621
İRAF 631

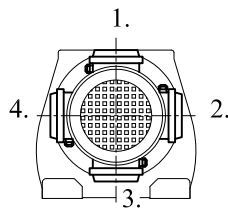




İRAPM 621
İRAPM 631



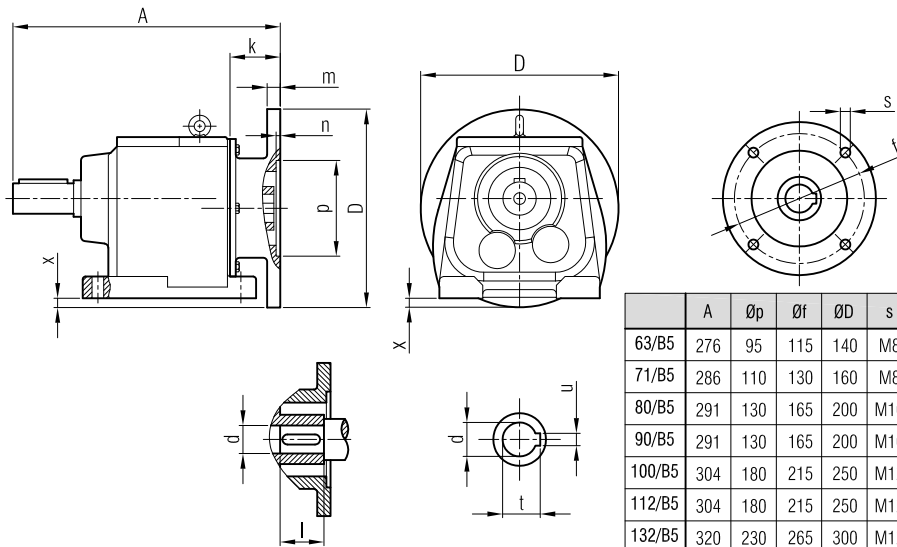
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 473 | 508 | 534 | 550 | 575 | 620 | 640 | 700 |
| A ₁ | 529 | 559 | 603 | 616 | 641 | 698 | 723 | 800 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

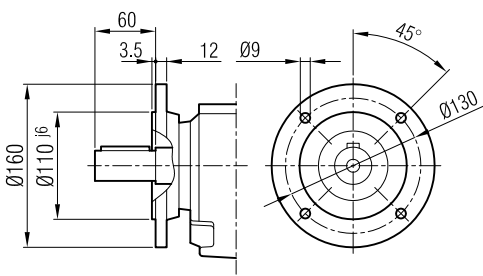
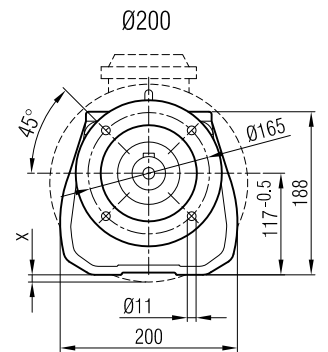
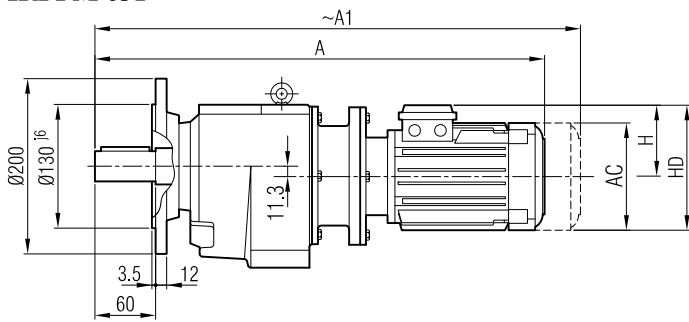
İRAP 621
İRAP 631



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 276 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 286 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 320 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |

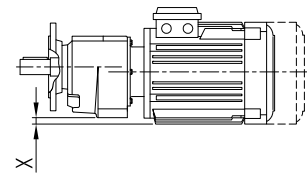
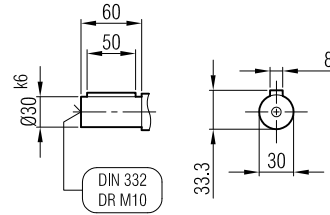


İRFPM 621
İRFPM 631

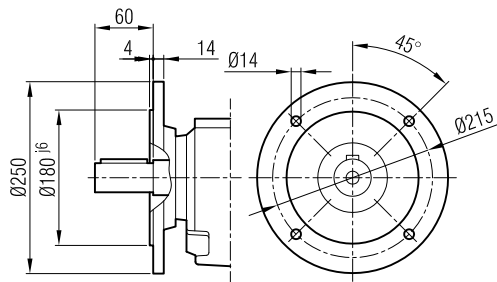
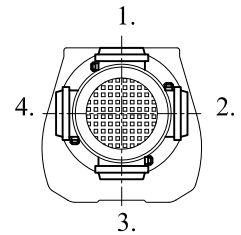


Ø160

(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



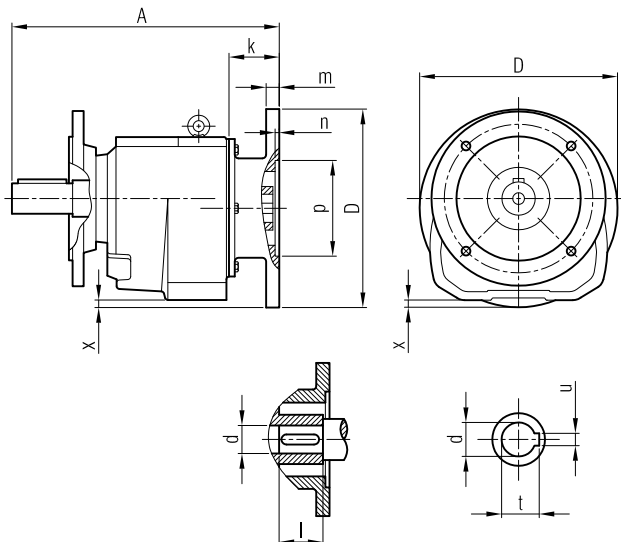
Ø250

(Opsiyonel / Optional / Opcional)

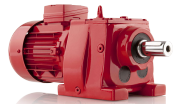
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 473 | 508 | 534 | 550 | 575 | 620 | 640 | 700 |
| A ₁ | 529 | 559 | 603 | 616 | 641 | 698 | 723 | 800 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

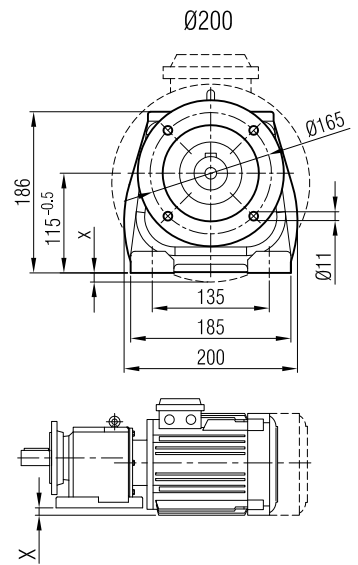
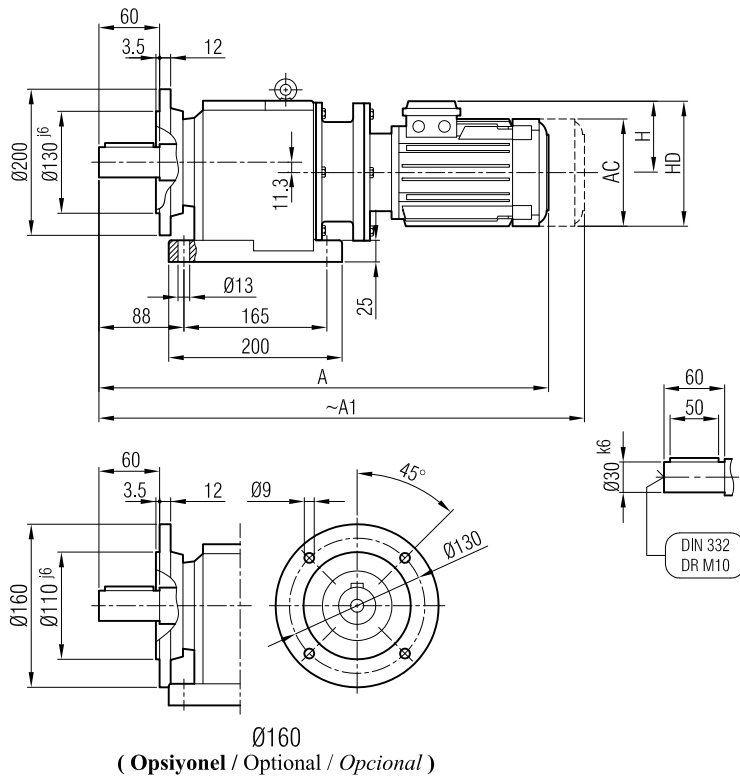
İRFP 621
İRFP 631



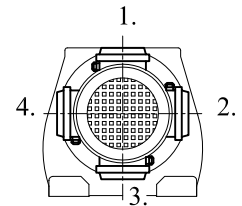
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 276 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 286 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 320 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |



İRAFFPM 621
İRAFFPM 631



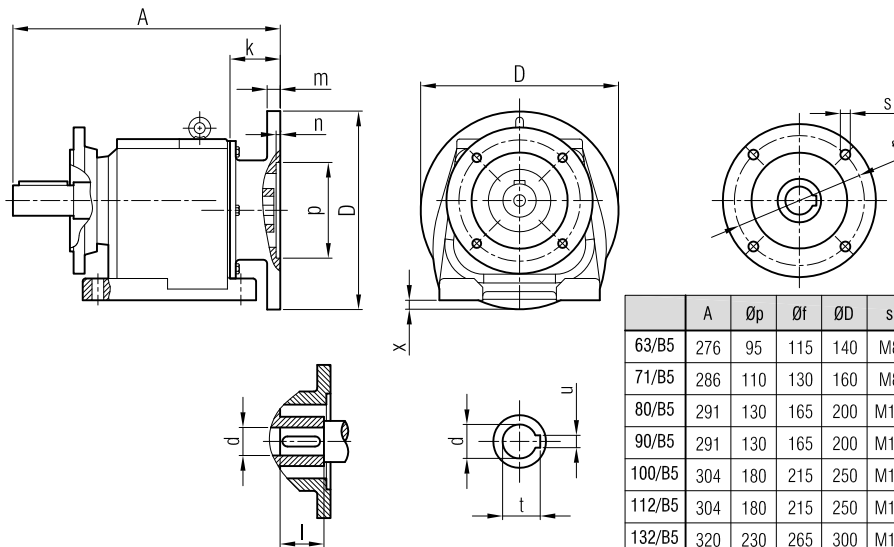
Terminal Box Positions
Posiciones de la caja de terminales



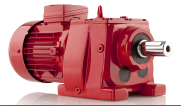
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 473 | 508 | 534 | 550 | 575 | 620 | 640 | 700 |
| A ₁ | 529 | 559 | 603 | 616 | 641 | 698 | 723 | 800 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

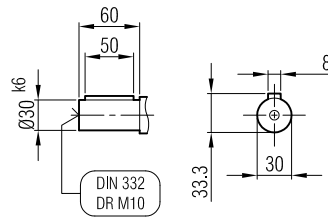
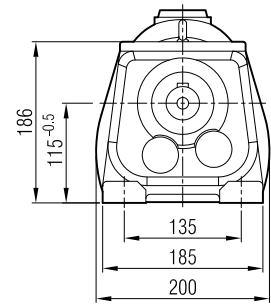
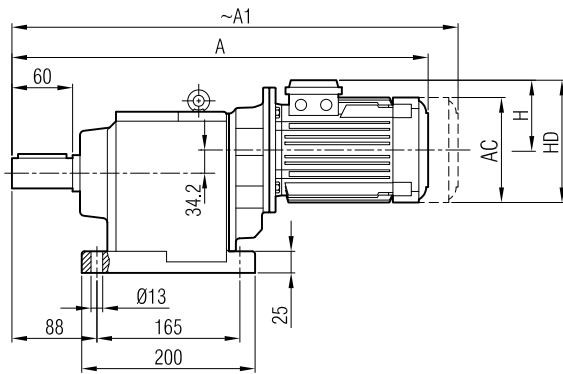
İRAFFP 621
İRAFFP 631



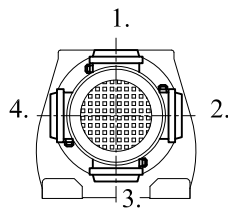
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 276 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 286 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 291 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 304 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 320 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |



İRAM 641



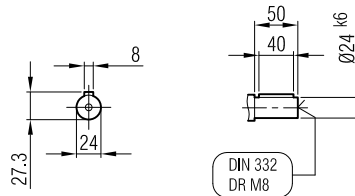
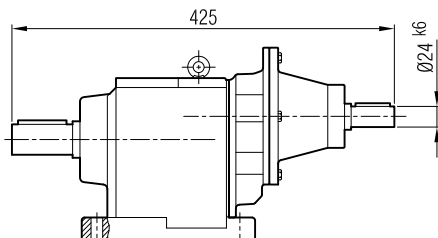
Terminal Box Positions
Posiciones de la caja de terminales

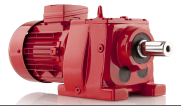


| | 71 | 80 | 90 S | 90 L | | | |
|----------------|-----|-----|------|------|--|--|--|
| A | 513 | 541 | 570 | 595 | | | |
| A ₁ | 564 | 610 | 636 | 661 | | | |
| H | 111 | 118 | 126 | 126 | | | |
| HD | 182 | 198 | 216 | 216 | | | |
| AC | 138 | 156 | 176 | 176 | | | |

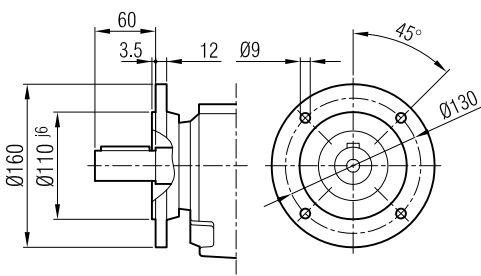
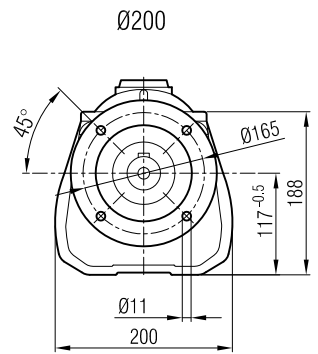
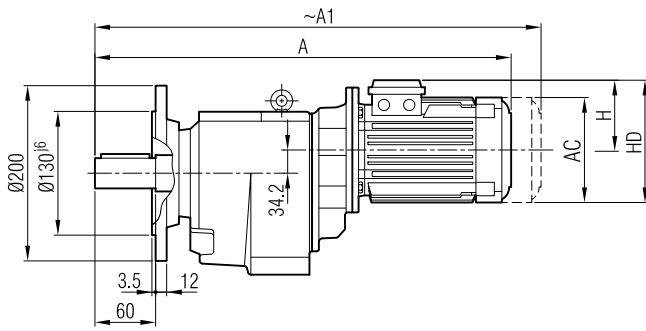
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 641

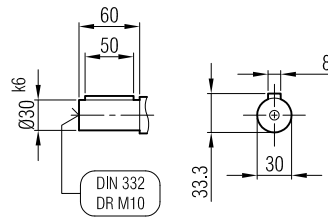




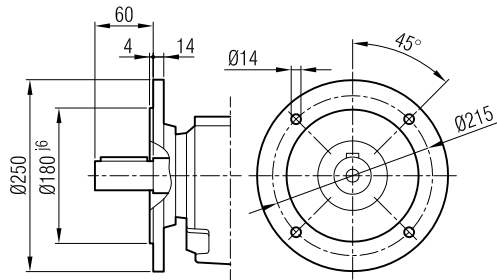
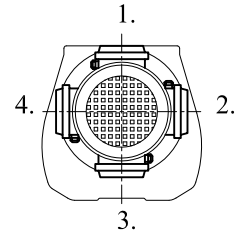
İRFM 641



Ø160
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

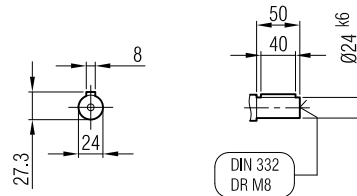
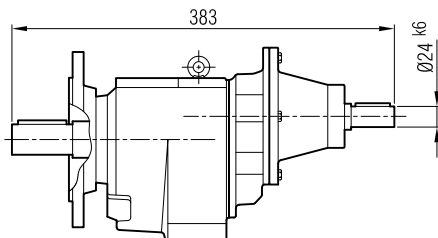


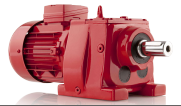
Ø250
(Opsiyonel / Optional / Opcional)

| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 513 | 541 | 570 | 595 | | |
| A ₁ | 564 | 610 | 636 | 661 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

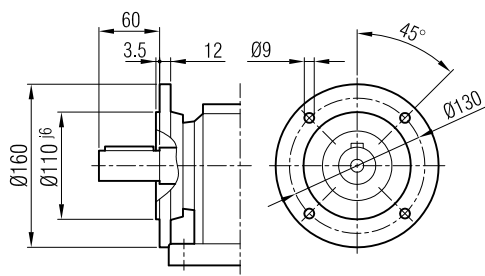
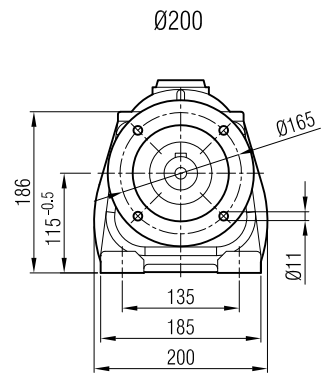
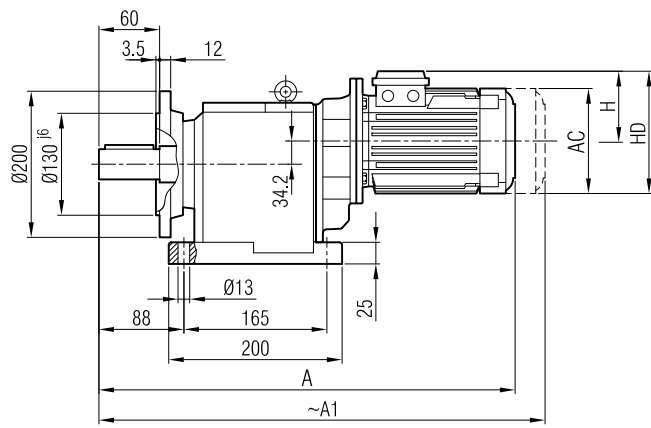
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 641

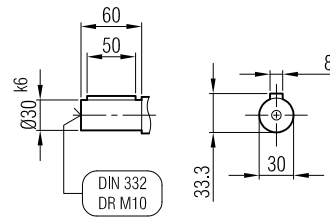




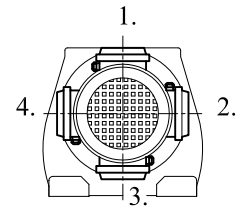
İRAF M 641



Ø160
(Opsiyonel / Optional / Opcional)



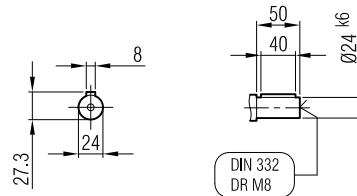
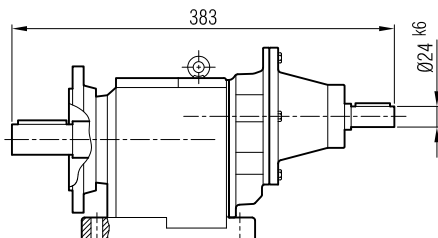
Terminal Box Positions
Posiciones de la caja de terminales

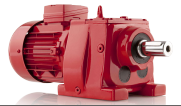


| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 523 | 551 | 580 | 605 | | |
| A ₁ | 574 | 620 | 646 | 671 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

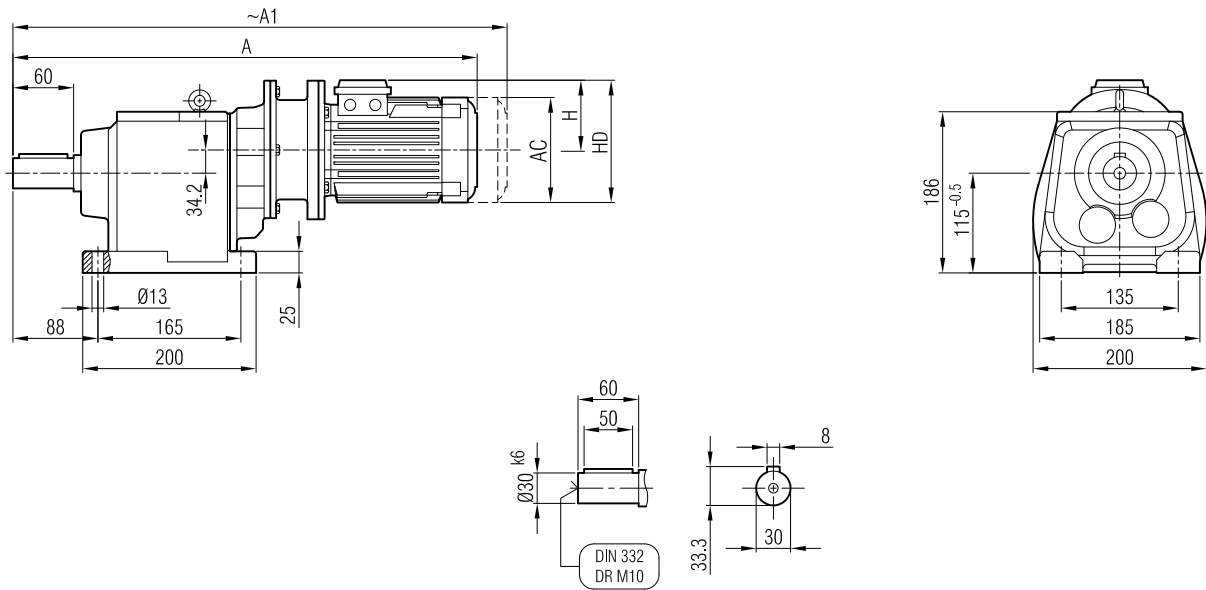
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 641

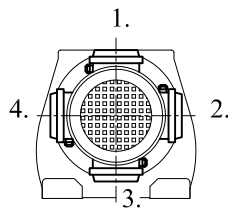




İRAPM 641



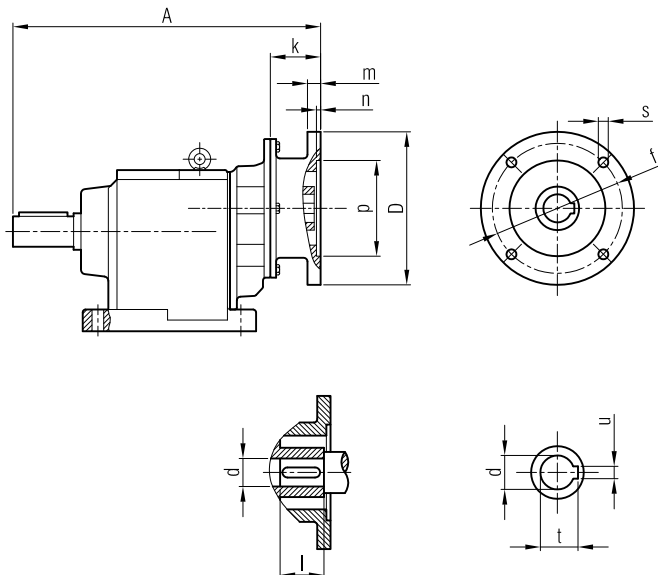
Terminal Box Positions
Posiciones de la caja de terminales



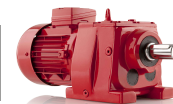
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 528 | 562 | 585 | 601 | 626 |
| A ₁ | 584 | 613 | 654 | 667 | 692 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

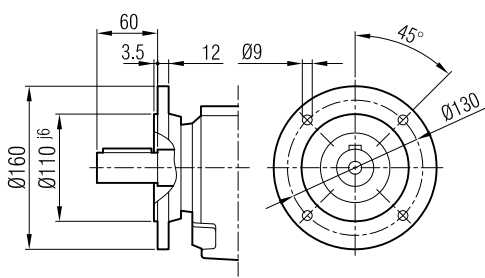
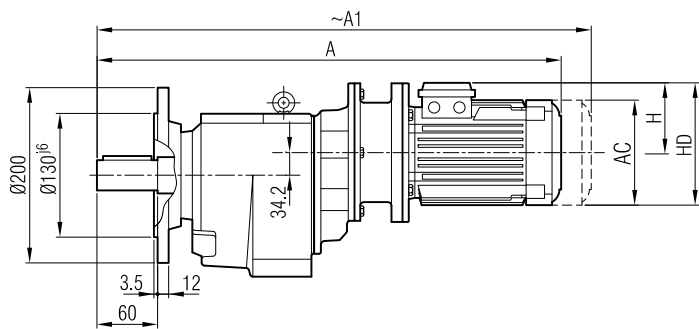
İRAP 641



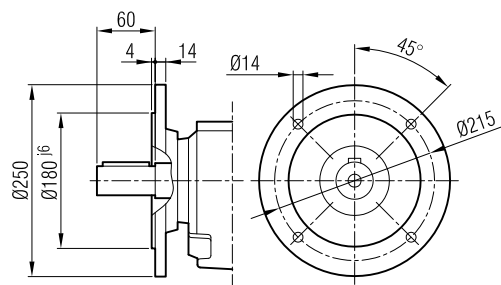
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 331 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 340 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



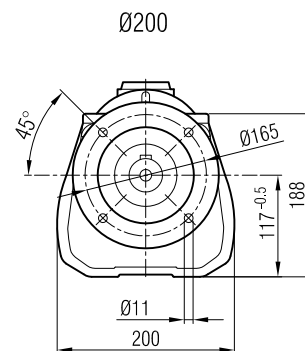
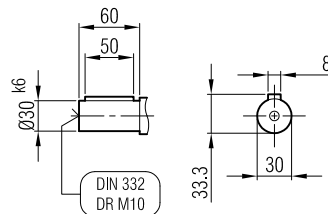
İRFPM 641



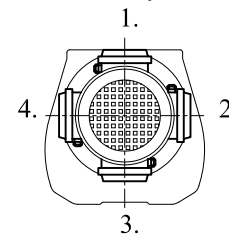
Ø160
(Opsiyonel / Optional / Opcional)



Ø250
(Opsiyonel / Optional / Opcional)



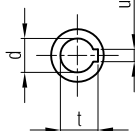
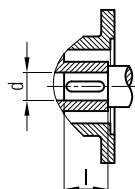
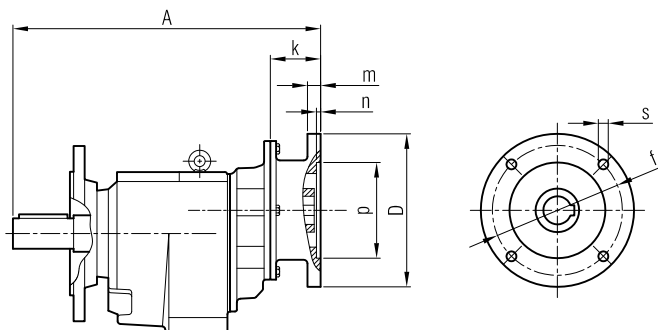
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 528 | 562 | 585 | 601 | 626 |
| A ₁ | 584 | 613 | 654 | 667 | 692 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

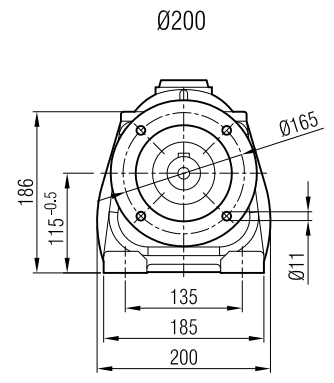
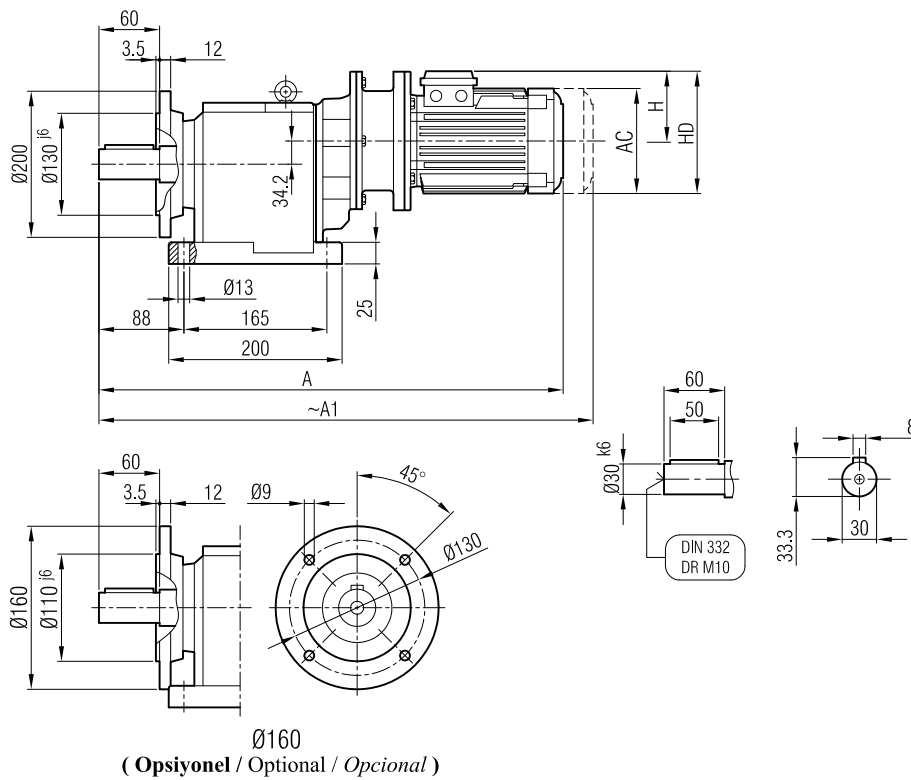
İRFP 641



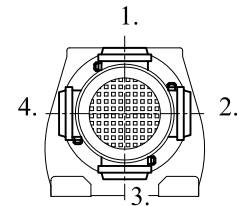
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 331 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 340 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAFPM 641



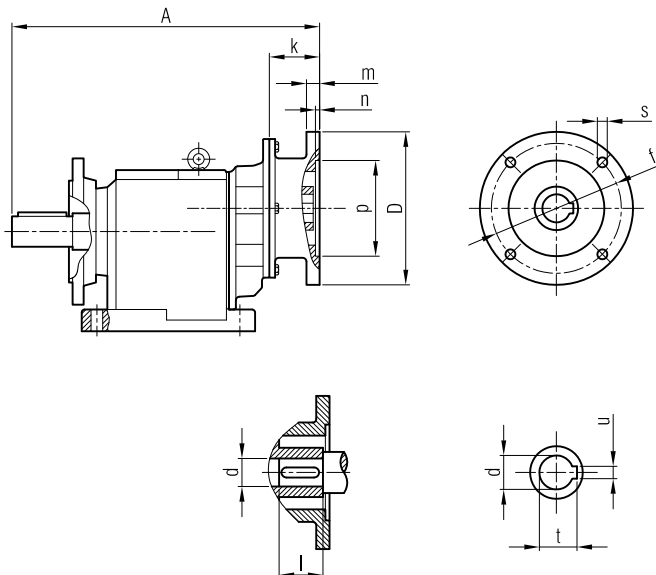
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 528 | 562 | 585 | 601 | 626 |
| A ₁ | 584 | 613 | 654 | 667 | 692 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

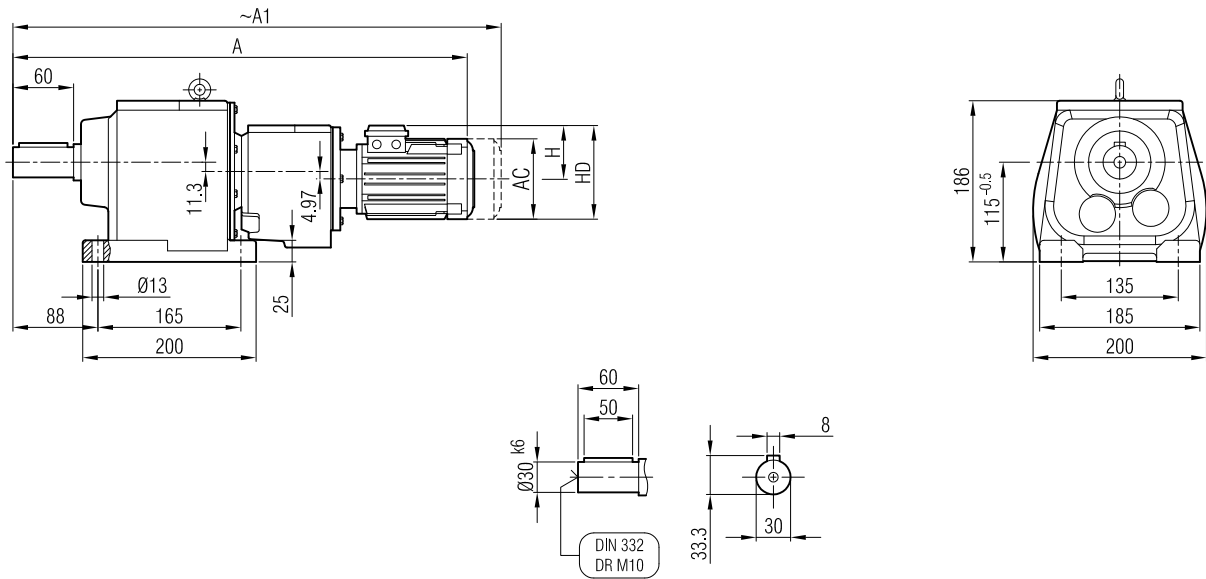
İRAFP 641



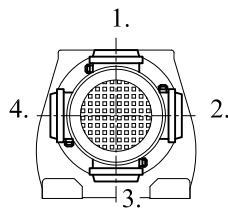
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 331 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 340 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAM 621 İR 52
İRAM 631 İR 52



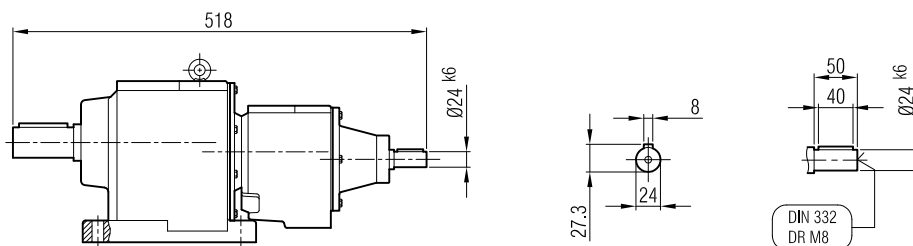
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | | | | |
|----------------|-----|--|--|--|--|
| A | 606 | | | | |
| A ₁ | 567 | | | | |
| H | 111 | | | | |
| HD | 182 | | | | |
| AC | 138 | | | | |

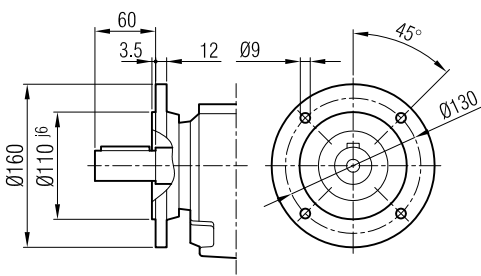
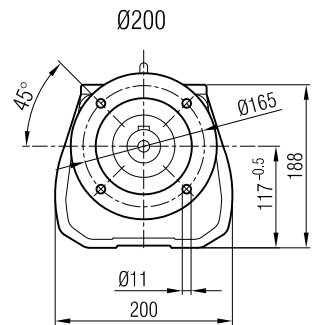
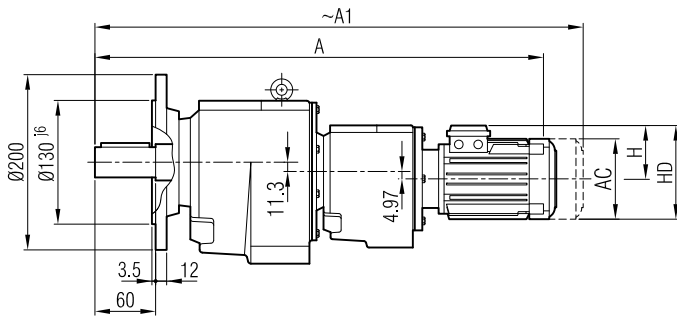
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 621 İR 52 / İRA 621 İR 53
İRA 631 İR 52 / İRA 631 İR 53



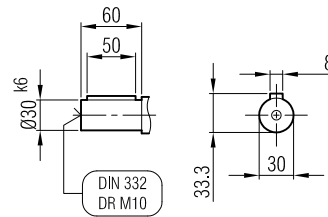


İRFM 621 İR 52
İRFM 631 İR 52

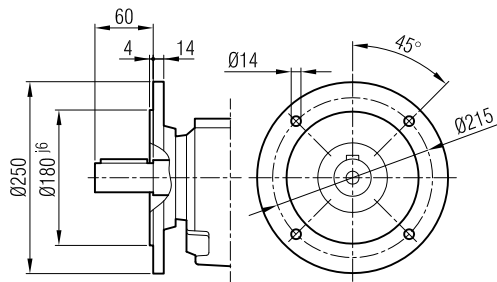
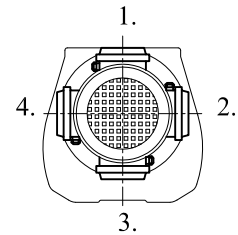


Ø160

(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



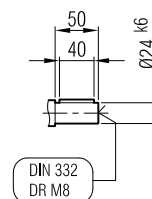
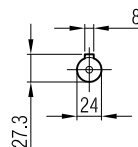
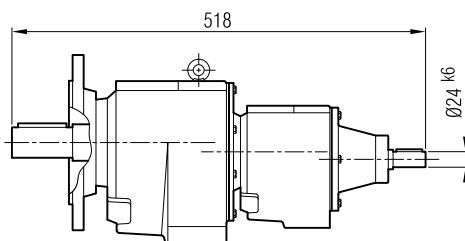
Ø250

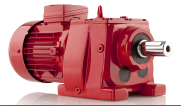
(Opsiyonel / Optional / Opcional)

| | | | | | |
|----------------|-----|--|--|--|--|
| | 71 | | | | |
| A | 606 | | | | |
| A ₁ | 567 | | | | |
| H | 111 | | | | |
| HD | 182 | | | | |
| AC | 138 | | | | |

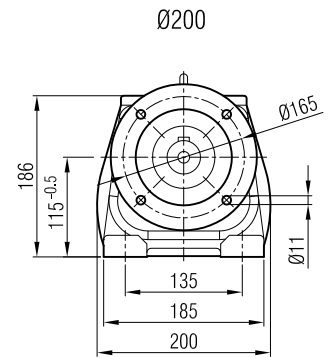
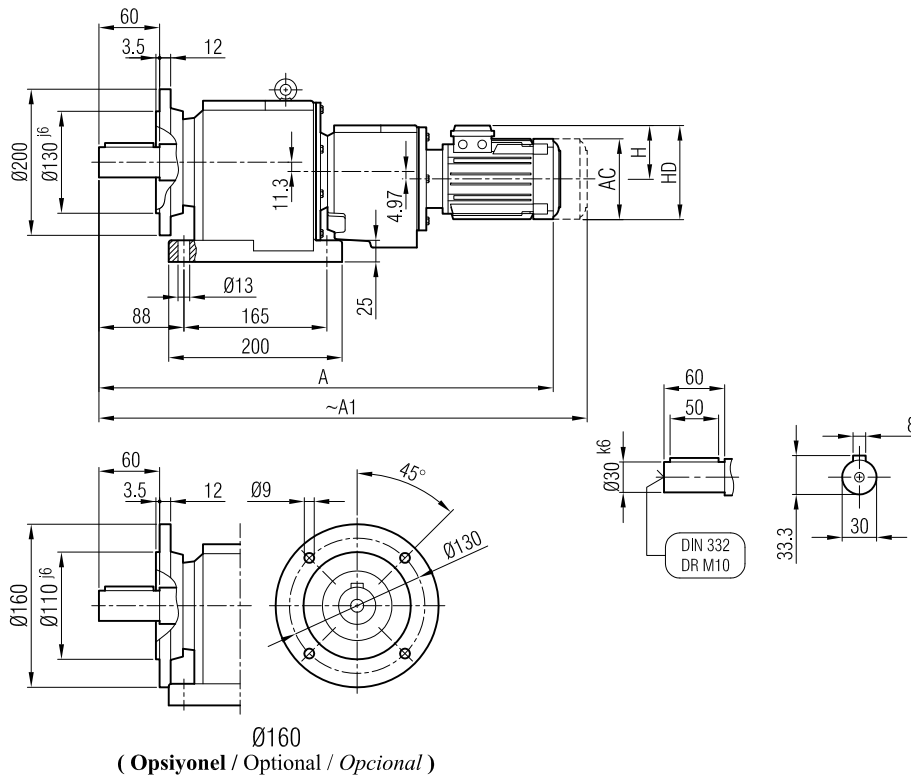
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 621 İR 52 / İRF 621 İR 53
İRF 631 İR 52 / İRF 631 İR 53

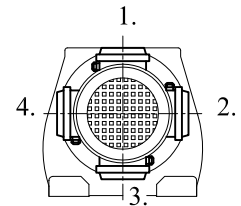




İRAFM 621 İR 52
İRAFM 631 İR 52



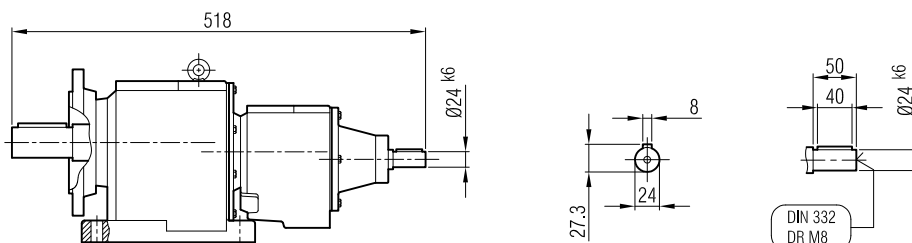
Terminal Box Positions
Posiciones de la caja de terminales

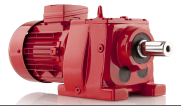


| | | | | | | |
|----------------|-----|--|--|--|--|--|
| | 71 | | | | | |
| A | 606 | | | | | |
| A ₁ | 567 | | | | | |
| H | 111 | | | | | |
| HD | 182 | | | | | |
| AC | 138 | | | | | |

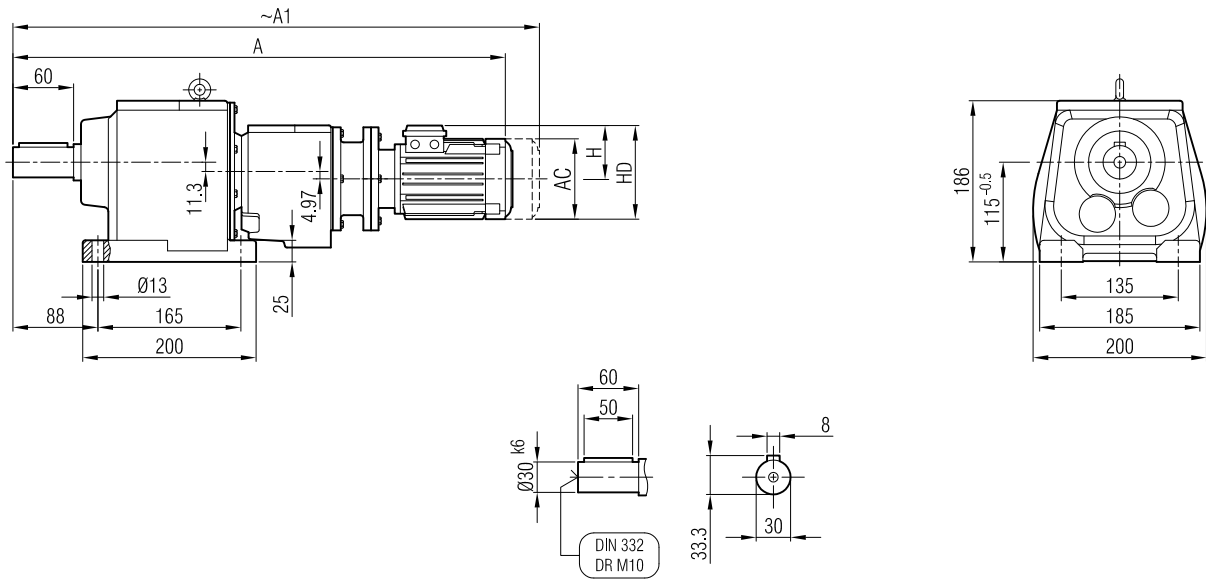
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 621 İR 52 / İRAF 621 İR 53
İRAF 631 İR 52 / İRAF 631 İR 53

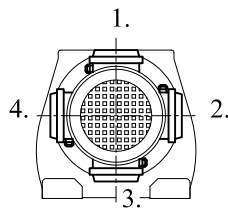




İRAPM 621 İR 52
İRAPM 631 İR 52



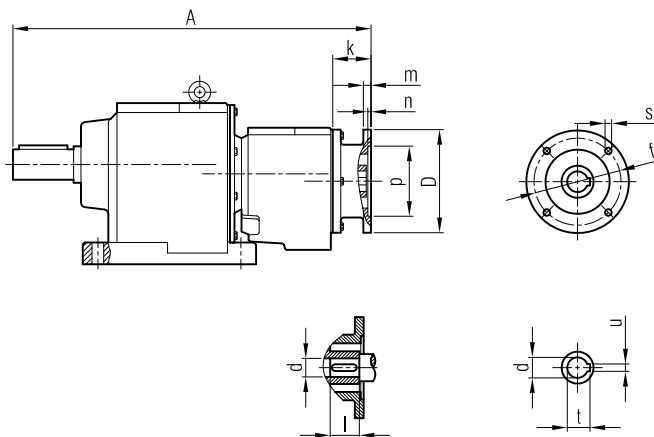
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 621 | 655 | | | |
| A ₁ | 677 | 706 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

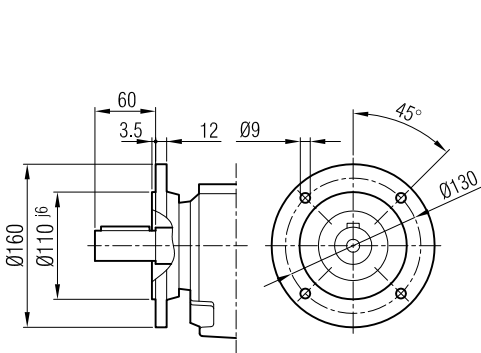
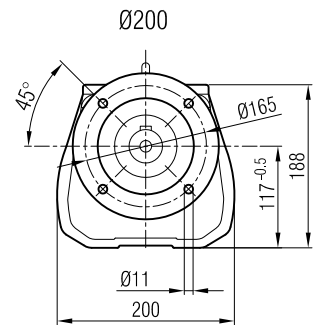
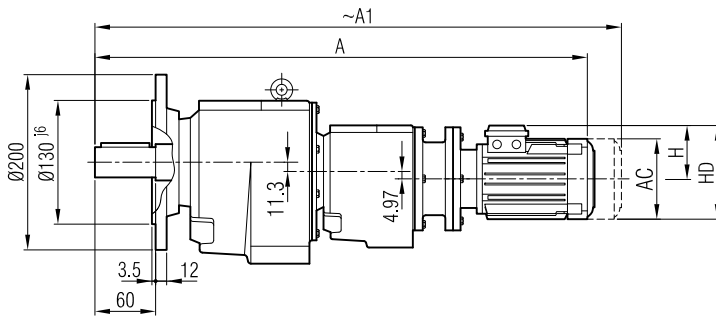
İRAP 621 İR 52 / İRAP 621 İR 53
İRAP 631 İR 52 / İRAP 631 İR 53



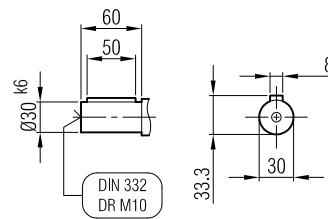
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 424 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 433 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



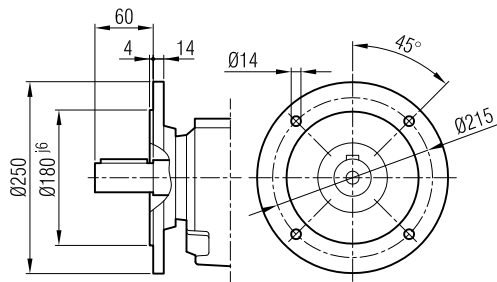
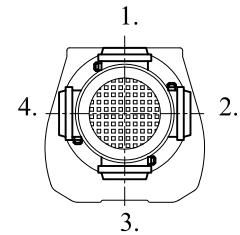
İRFPM 621 İR 52
İRFPM 631 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

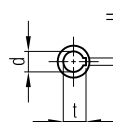
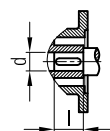
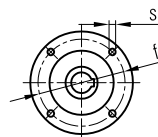
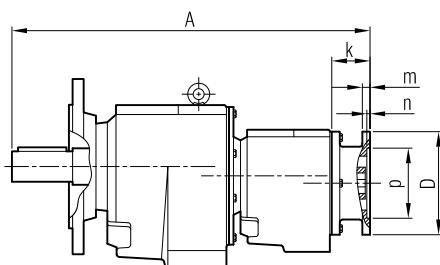


Ø250
(Opsiyonel / Optional / Opcional)

| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 621 | 655 | | | |
| A ₁ | 677 | 706 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

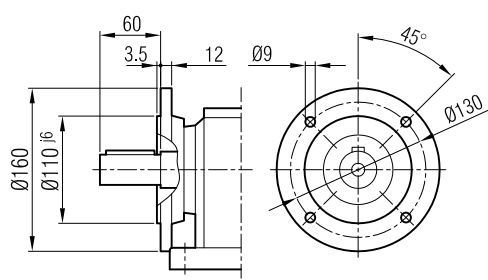
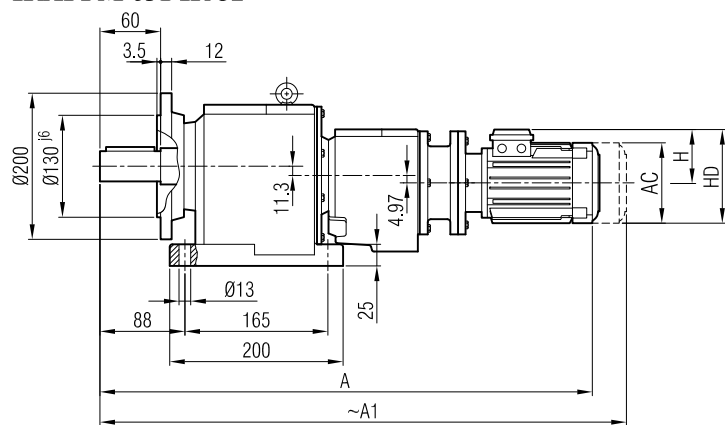
İRFP 621 İR 52 / İRFP 621 İR 53
İRFP 631 İR 52 / İRFP 631 İR 53



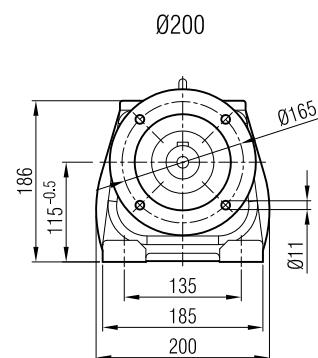
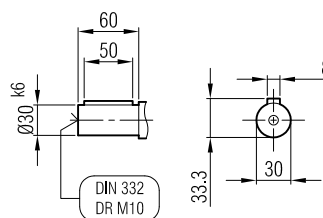
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 424 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 433 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



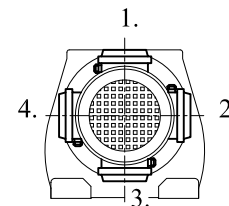
İRAFP 621 İR 52
İRAFP 631 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



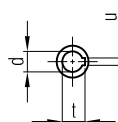
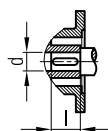
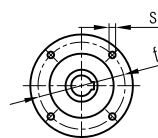
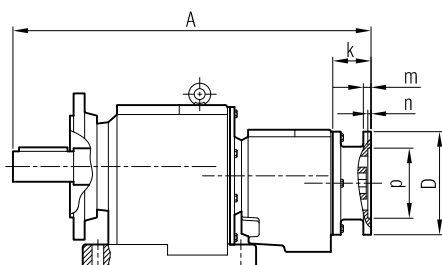
Terminal Box Positions
Posiciones de la caja de terminales



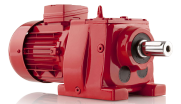
| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 621 | 655 | | | |
| A ₁ | 677 | 706 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

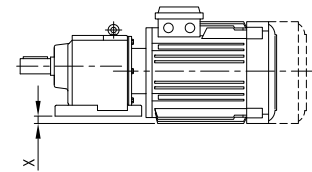
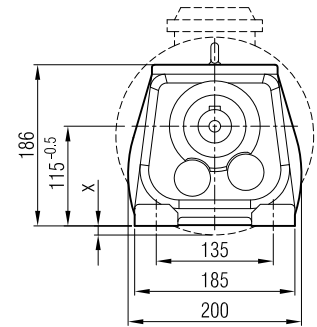
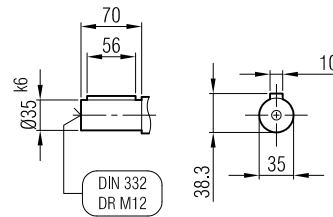
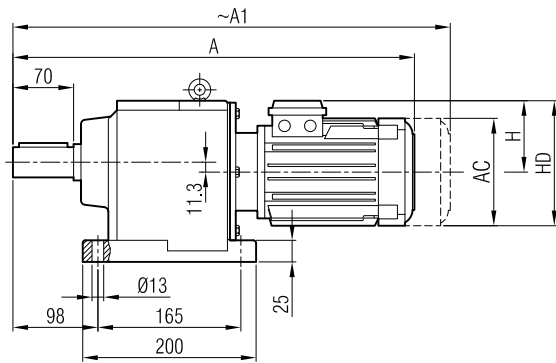
İRAFP 621 İR 52 / İRAFP 621 İR 53
İRAFP 631 İR 52 / İRAFP 631 İR 53



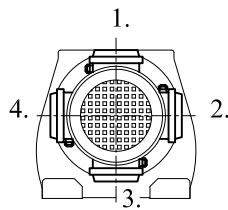
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 424 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 433 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



İRAM 62
İRAM 63



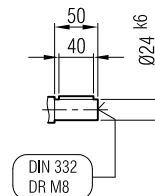
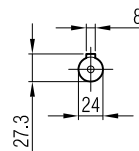
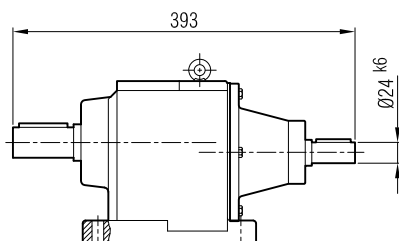
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 461 | 491 | 521 | 546 | 585 | 605 | 651 |
| A ₁ | 512 | 560 | 587 | 612 | 663 | 688 | 751 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

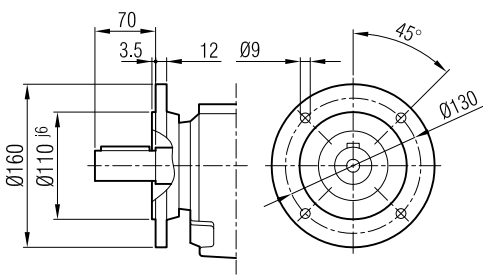
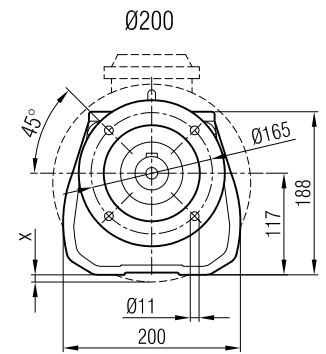
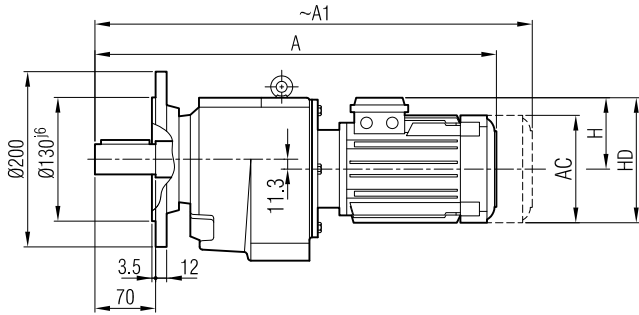
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 62
İRA 63



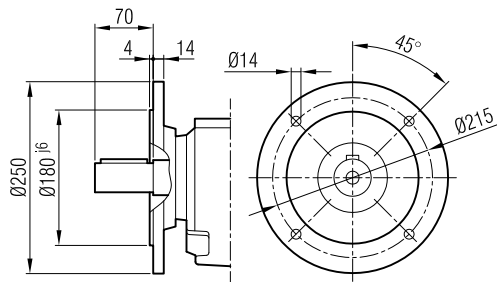


İRFM 62
İRFM 63



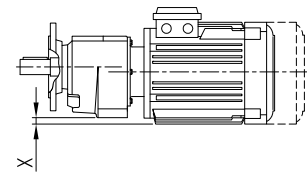
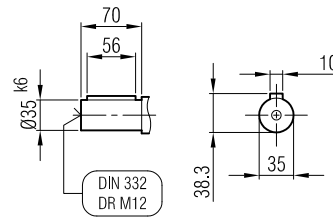
Ø160

(Opsiyonel / Optional / Opcional)

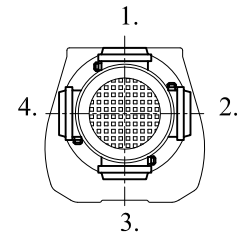


Ø250

(Opsiyonel / Optional / Opcional)



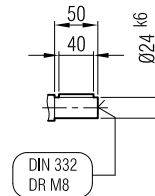
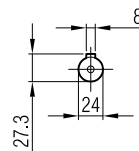
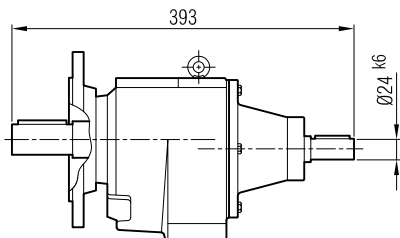
Terminal Box Positions
Posiciones de la caja de terminales

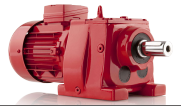


| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 461 | 491 | 521 | 546 | 585 | 605 | 651 |
| A ₁ | 512 | 560 | 587 | 612 | 663 | 688 | 751 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

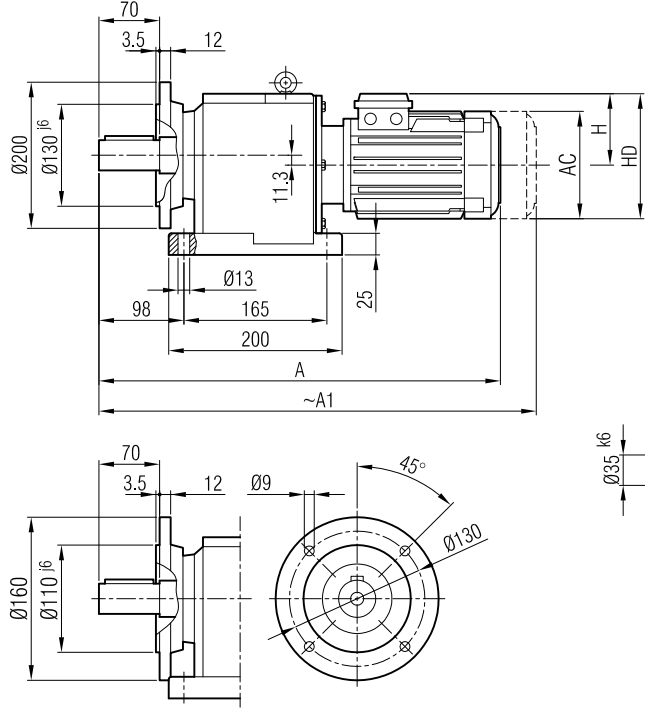
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 62
İRF 63

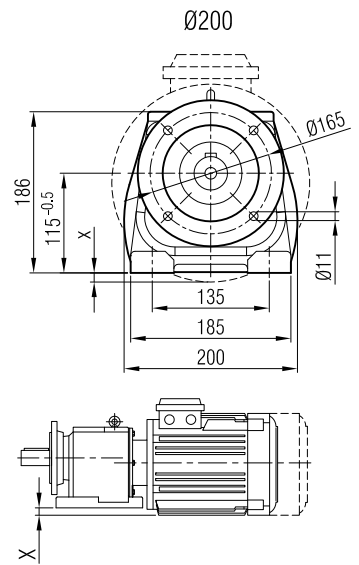
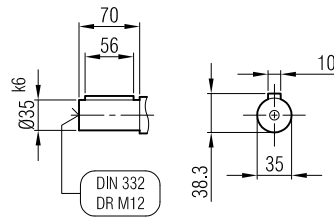




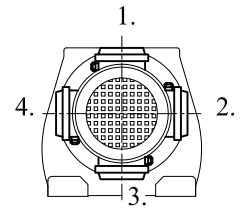
İRAF 62
İRAF 63



Ø160
(Opsiyonel / Optional / Opcional)



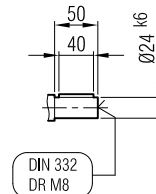
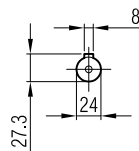
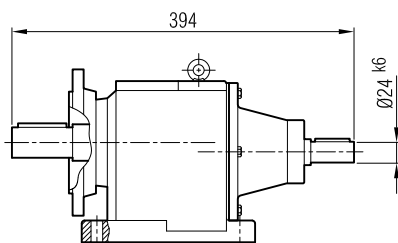
Terminal Box Positions
Posiciones de la caja de terminales

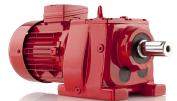


| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|-----|-----|------|------|-----|-----|-------|
| A | 461 | 491 | 521 | 546 | 585 | 605 | 651 |
| A ₁ | 512 | 560 | 587 | 612 | 663 | 688 | 751 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | 5 | 25 |

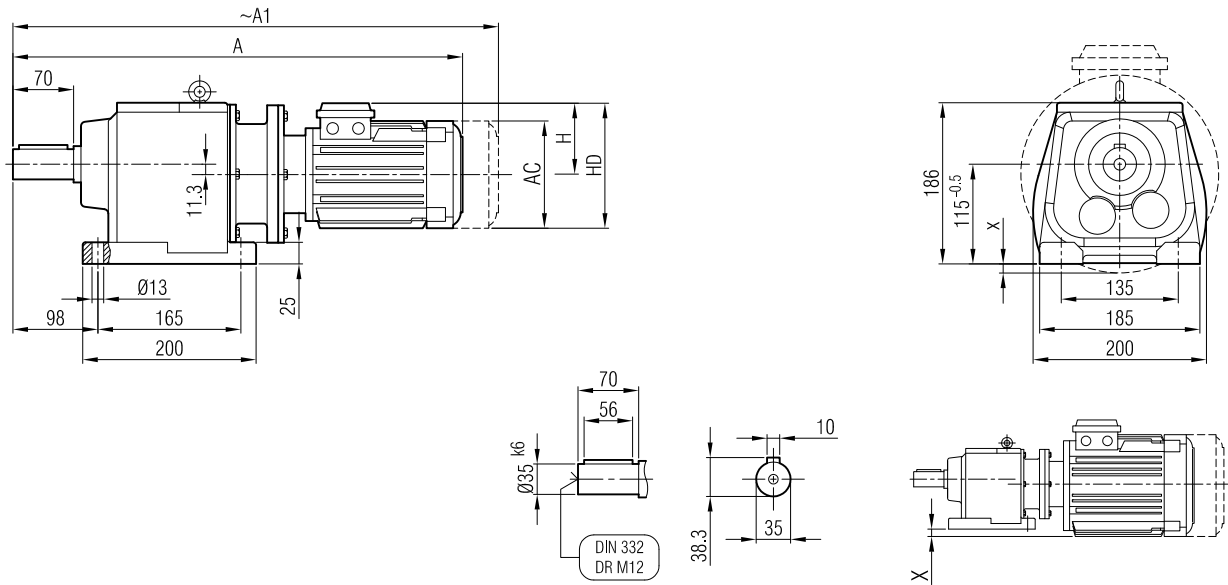
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 62
İRAF 63

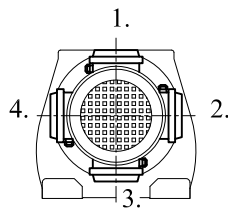




İRAPM 62
İRAPM 63



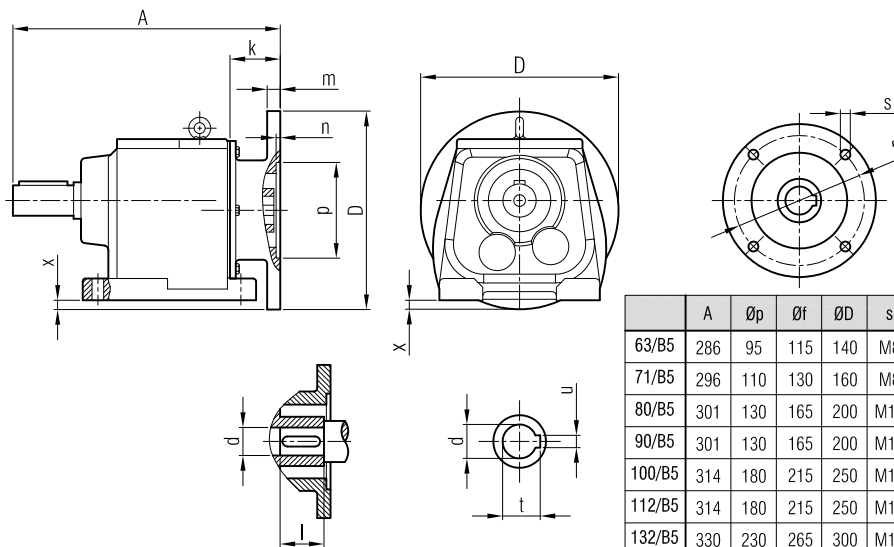
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 483 | 518 | 544 | 560 | 585 | 630 | 650 | 710 |
| A ₁ | 539 | 569 | 613 | 626 | 651 | 708 | 733 | 810 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

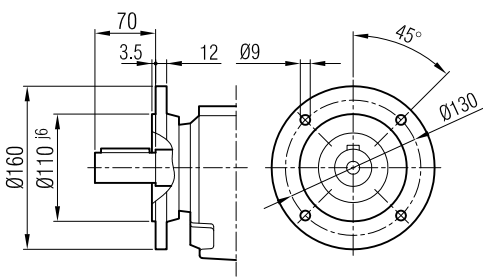
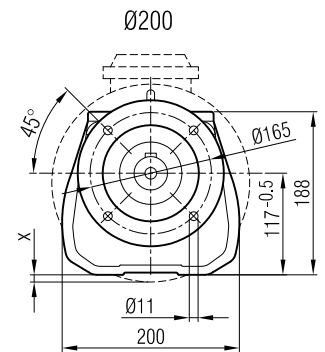
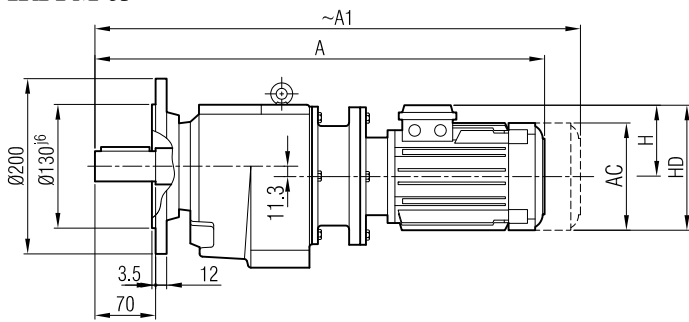
İRAP 62
İRAP 63



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 330 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |

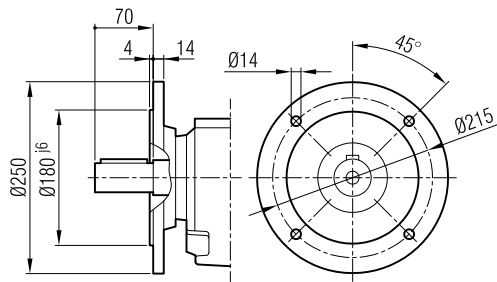


İRFPM 62
İRFPM 63



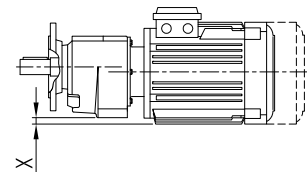
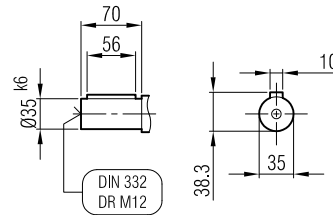
Ø160

(Opsiyonel / Optional / Opcional)

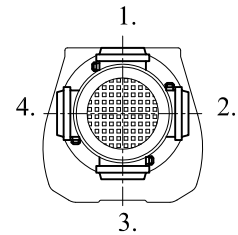


Ø250

(Opsiyonel / Optional / Opcional)



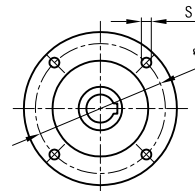
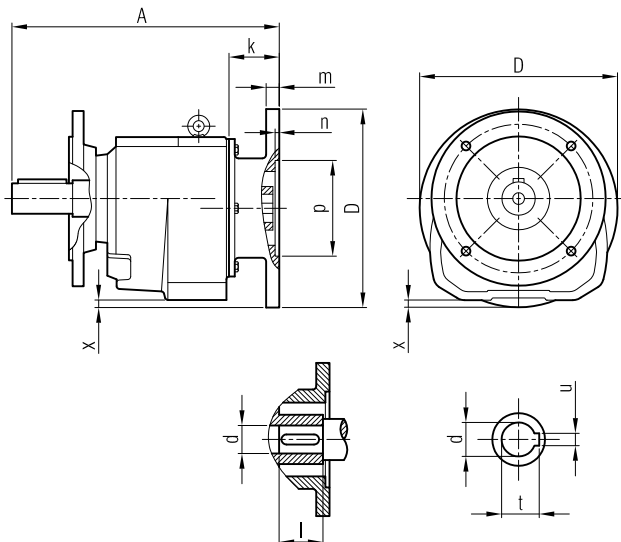
Terminal Box Positions
Posiciones de la caja de terminales



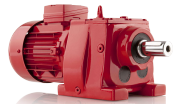
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 483 | 518 | 544 | 560 | 585 | 630 | 650 | 710 |
| A ₁ | 539 | 569 | 613 | 626 | 651 | 708 | 733 | 810 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

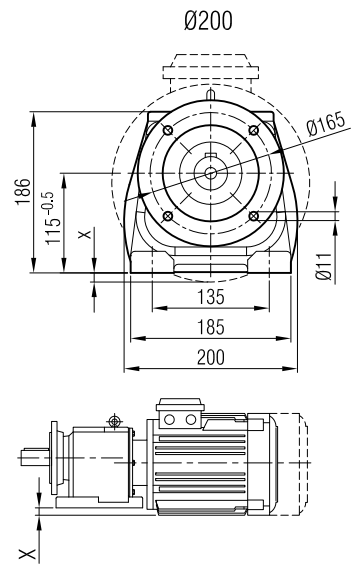
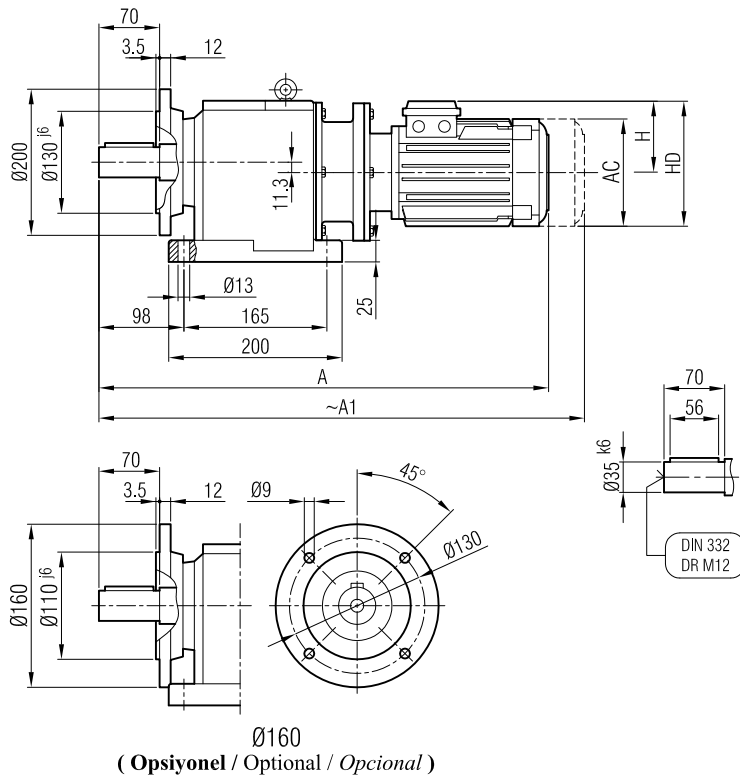
İRFP 62
İRFP 63



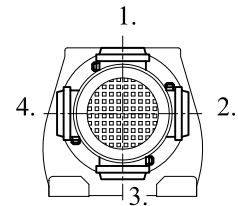
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 330 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |



İRAFFPM 62
İRAFFPM 63



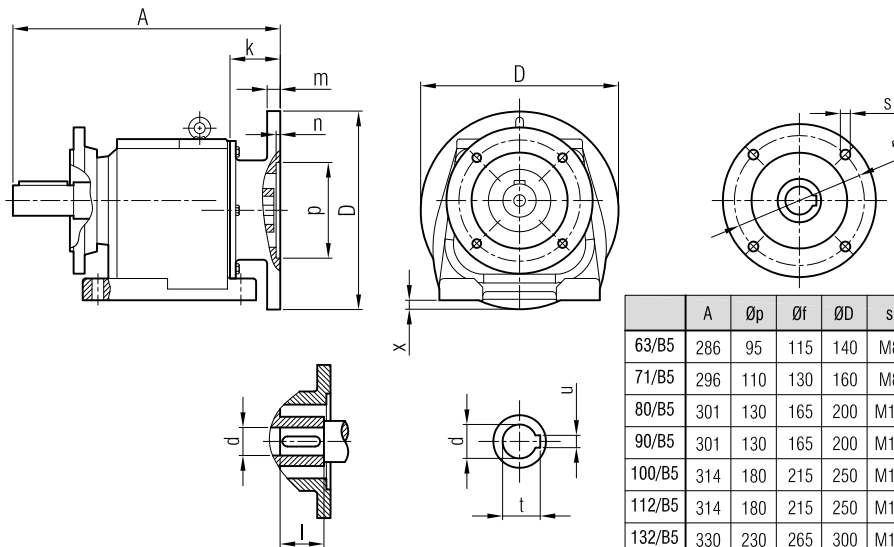
Terminal Box Positions
Posiciones de la caja de terminales



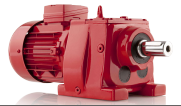
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|-------|---------|---------|--------|--------|----------|
| A | 483 | 518 | 544 | 560 | 585 | 630 | 650 | 710 |
| A ₁ | 539 | 569 | 613 | 626 | 651 | 708 | 733 | 810 |
| H | 97 | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 160 | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 121 | 138 | 156 | 176 | 176 | 194 | 218 | 257 |
| x | - | - | - | - | - | - | 5 | 25 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

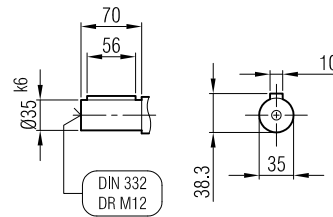
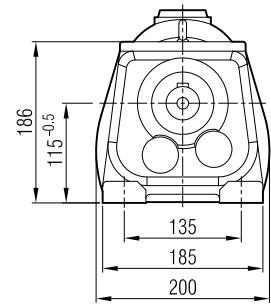
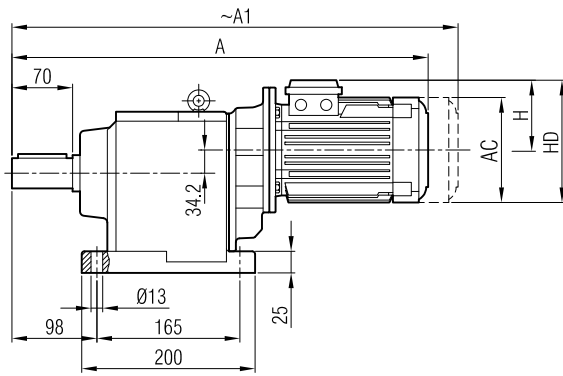
İRAFP 62
İRAFP 63



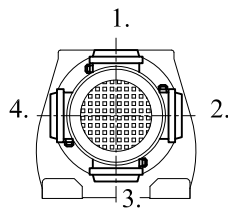
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|------|----|---|----|----|------|----|----|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 | - |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 112/B5 | 314 | 180 | 215 | 250 | M12 | 63 | 14 | 5 | 28 | 60 | 31.3 | 8 | 22 |
| 132/B5 | 330 | 230 | 265 | 300 | M12 | 79 | 17 | 6 | 38 | 80 | 41.3 | 10 | 47 |



İRAM 64



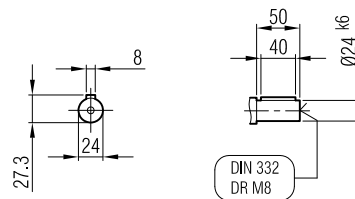
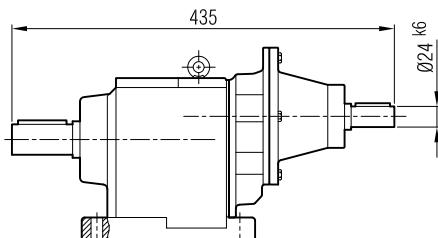
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | | | |
|----------------|-----|-----|------|------|--|--|--|
| A | 523 | 551 | 580 | 605 | | | |
| A ₁ | 574 | 620 | 646 | 671 | | | |
| H | 111 | 118 | 126 | 126 | | | |
| HD | 182 | 198 | 216 | 216 | | | |
| AC | 138 | 156 | 176 | 176 | | | |

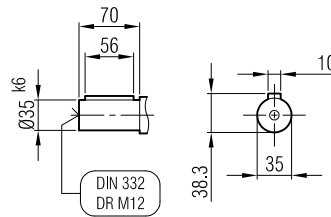
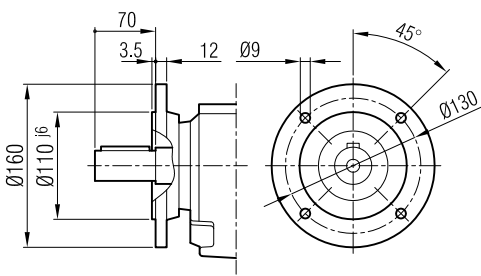
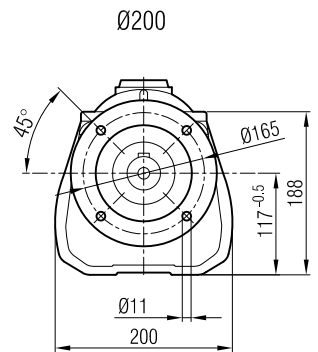
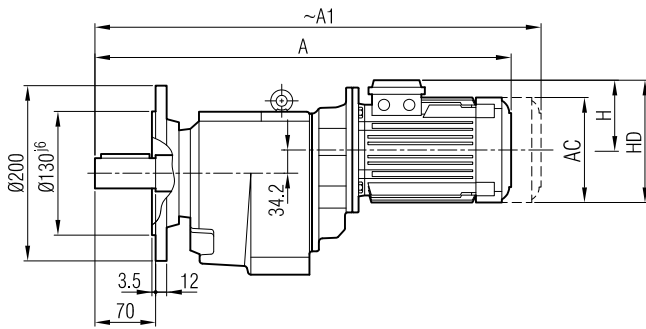
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 64



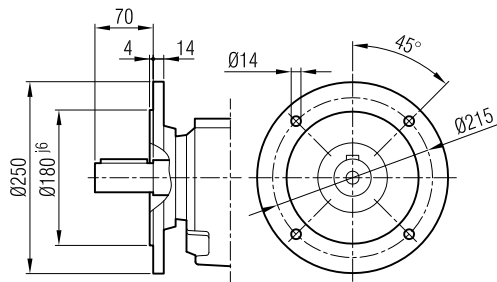


İRFM 64



Ø160

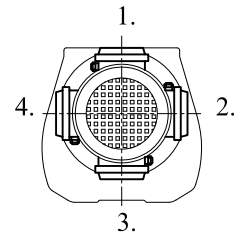
(Opsiyonel / Optional / Opcional)



Ø250

(Opsiyonel / Optional / Opcional)

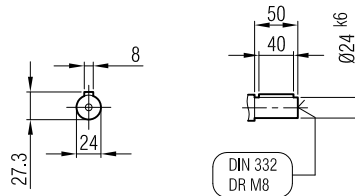
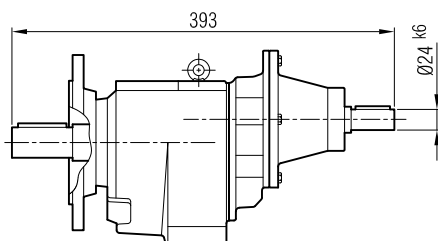
Terminal Box Positions
Posiciones de la caja de terminales

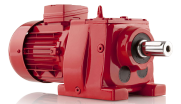


| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 523 | 551 | 580 | 605 | | |
| A ₁ | 574 | 620 | 646 | 671 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

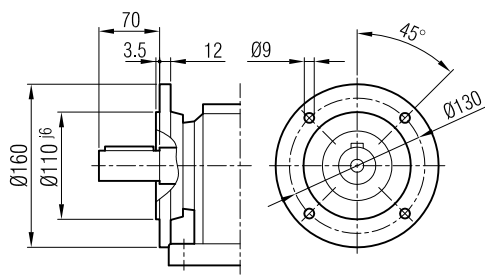
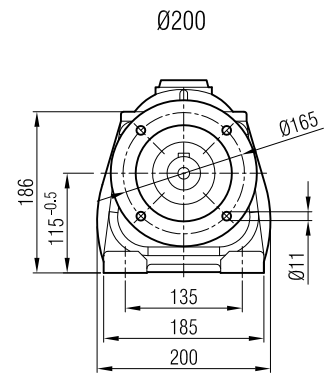
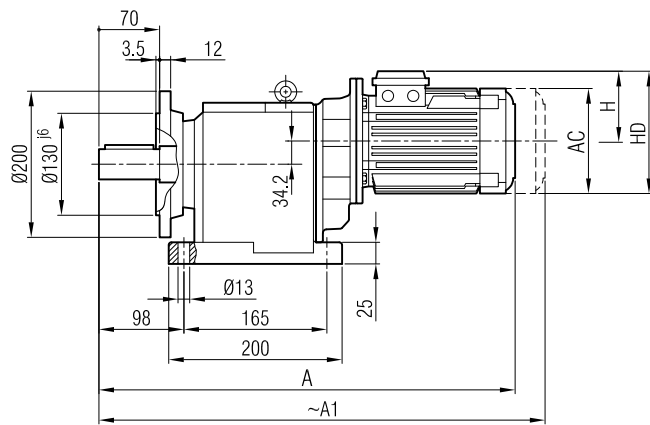
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 64

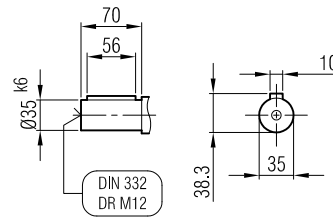




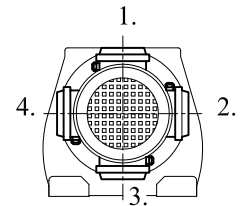
İRAF 64



Ø160
(Opsiyonel / Optional / Opcional)



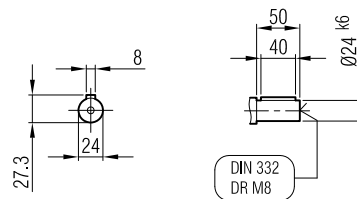
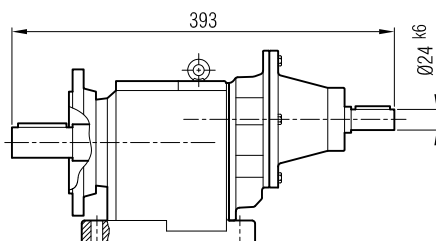
Terminal Box Positions
Posiciones de la caja de terminales

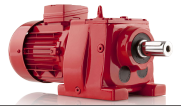


| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 523 | 551 | 580 | 605 | | |
| A ₁ | 574 | 620 | 646 | 671 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

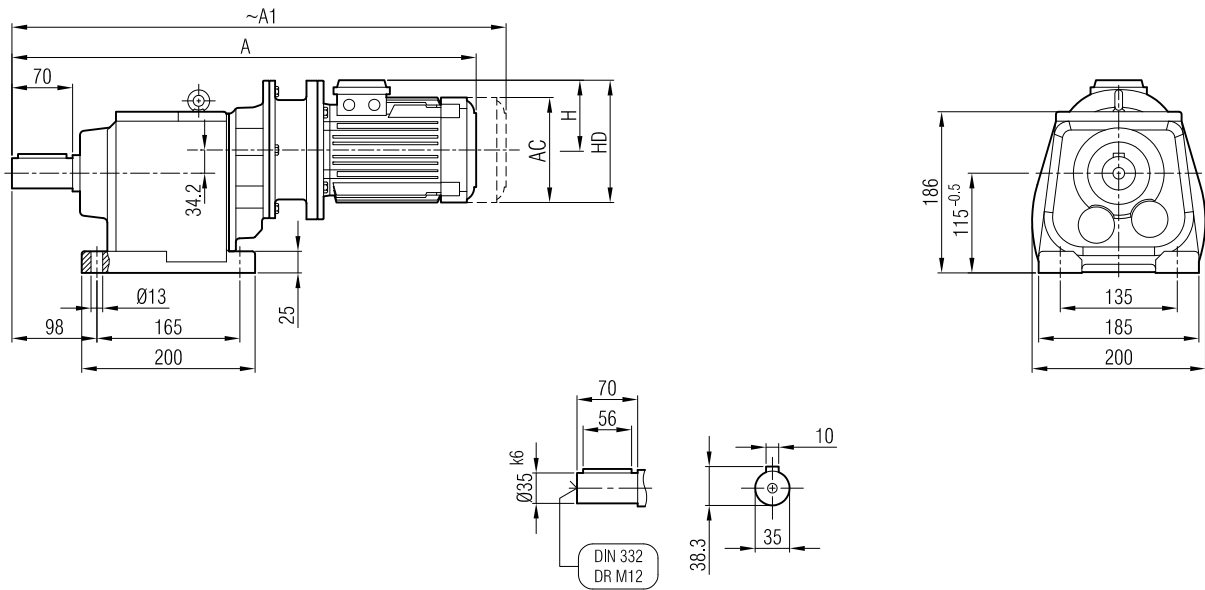
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 64

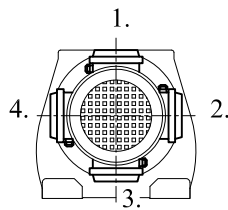




İRAPM 64



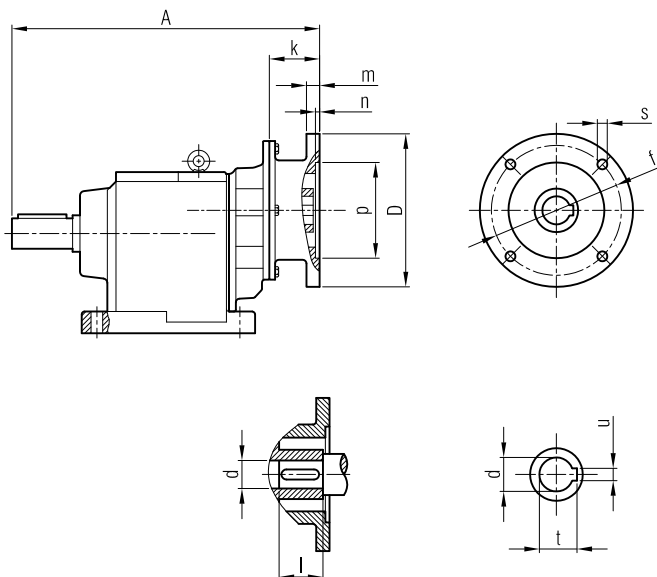
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 538 | 572 | 595 | 611 | 636 |
| A ₁ | 594 | 623 | 664 | 677 | 702 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

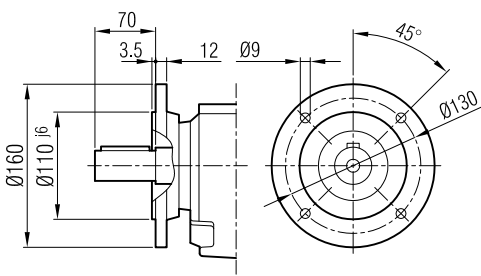
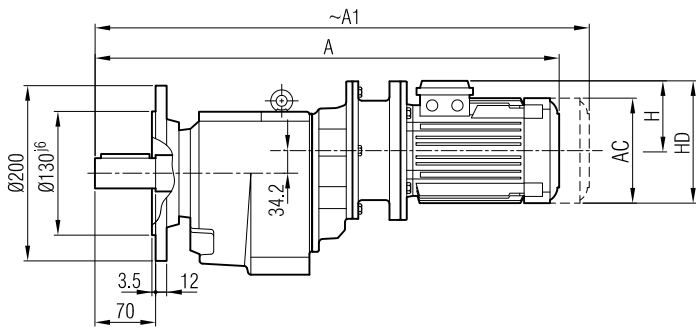
İRAP 64



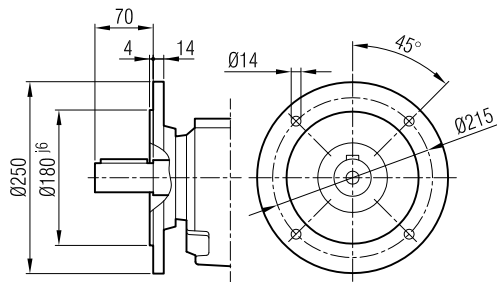
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 341 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 350 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



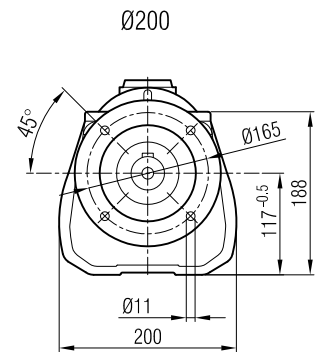
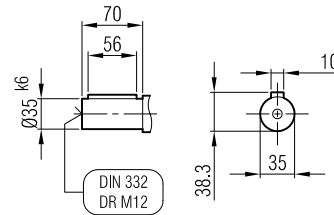
İRFPM 64



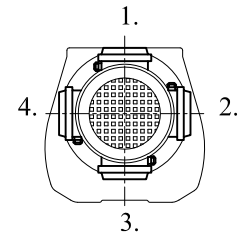
Ø160
(Opsiyonel / Optional / Opcional)



Ø250
(Opsiyonel / Optional / Opcional)



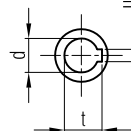
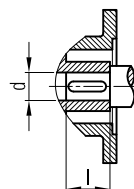
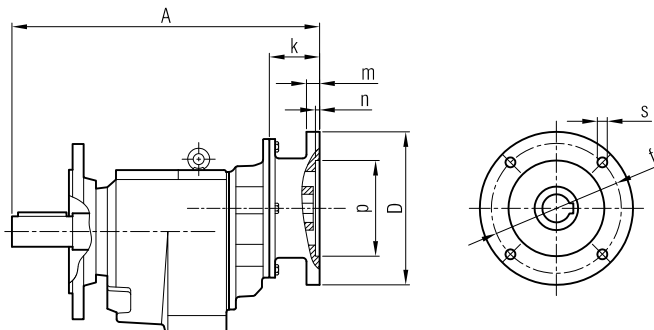
Terminal Box Positions
Posiciones de la caja de terminales



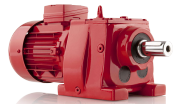
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 538 | 572 | 595 | 611 | 636 |
| A ₁ | 594 | 623 | 664 | 677 | 702 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

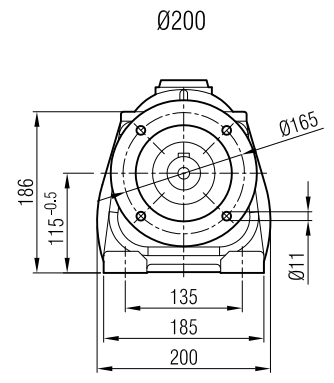
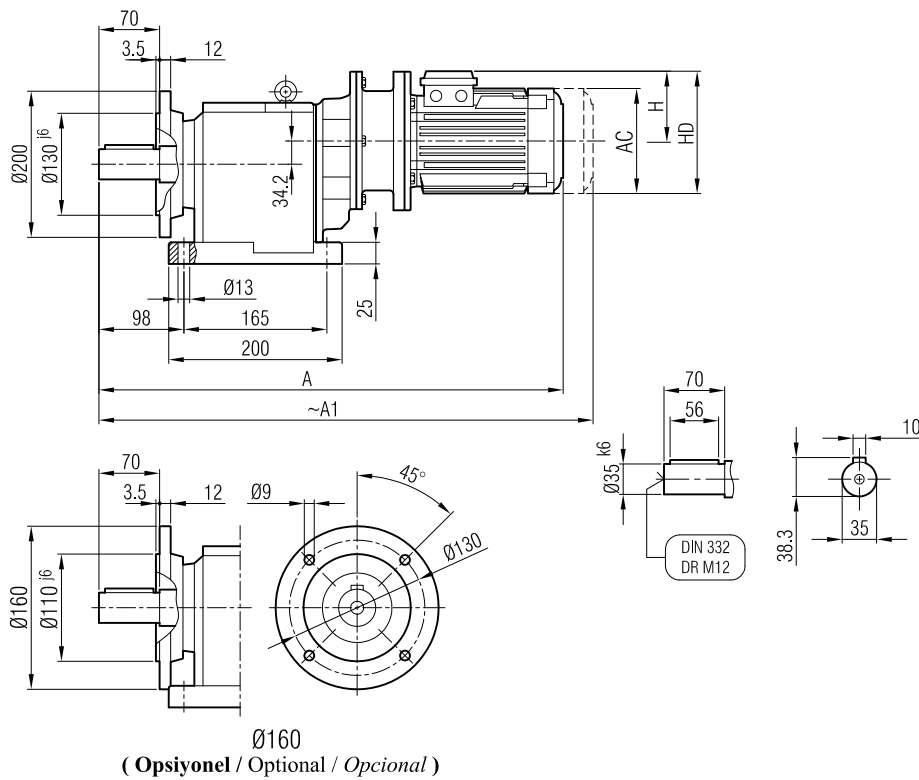
İRFP 64



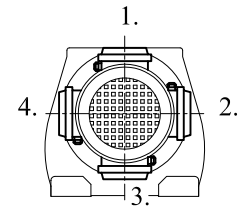
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 341 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 350 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAFPM 64



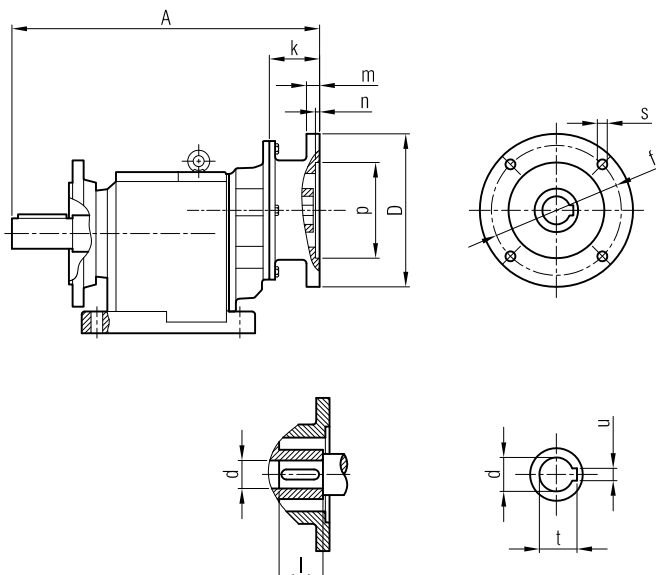
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 538 | 572 | 595 | 611 | 636 |
| A ₁ | 594 | 623 | 664 | 677 | 702 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

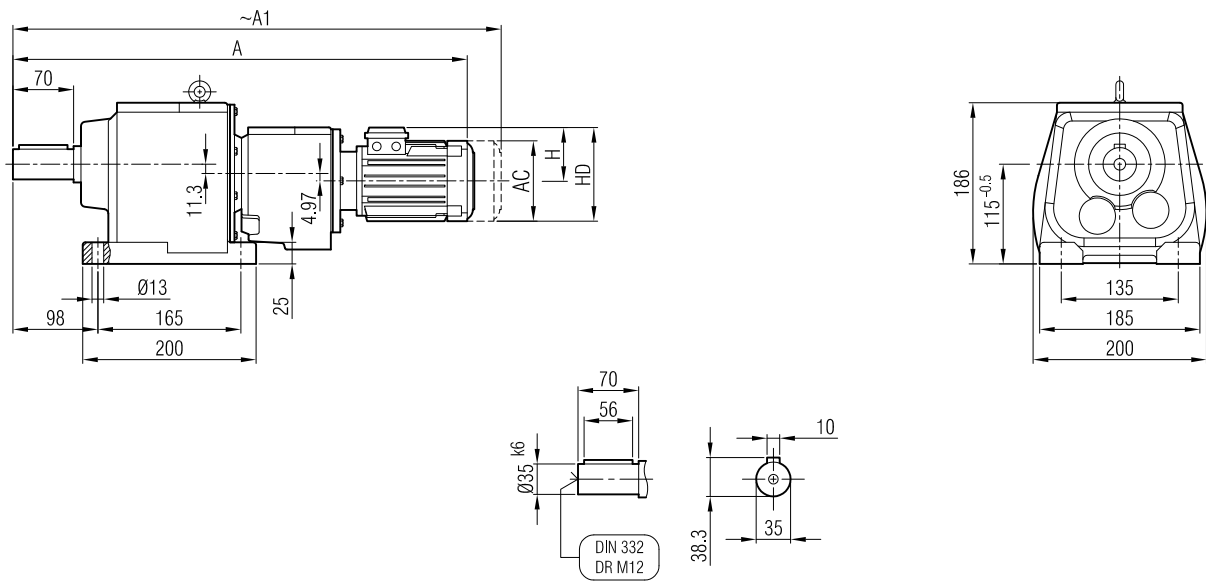
İRAFP 64



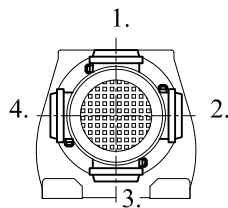
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 341 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 350 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 352 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAM 62 İR 52
İRAM 63 İR 52



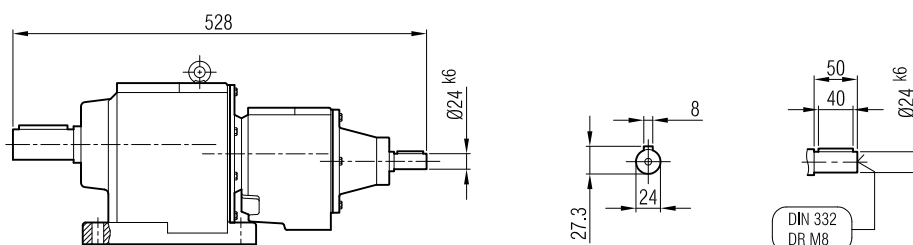
Terminal Box Positions
Posiciones de la caja de terminales

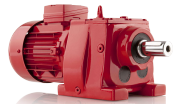


| | 71 | | | | |
|----------------|-----|--|--|--|--|
| A | 616 | | | | |
| A ₁ | 667 | | | | |
| H | 111 | | | | |
| HD | 182 | | | | |
| AC | 138 | | | | |

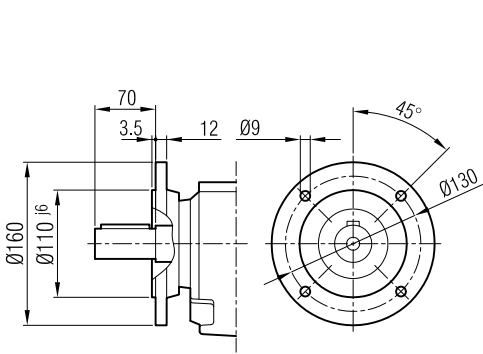
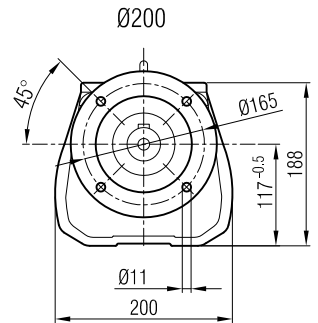
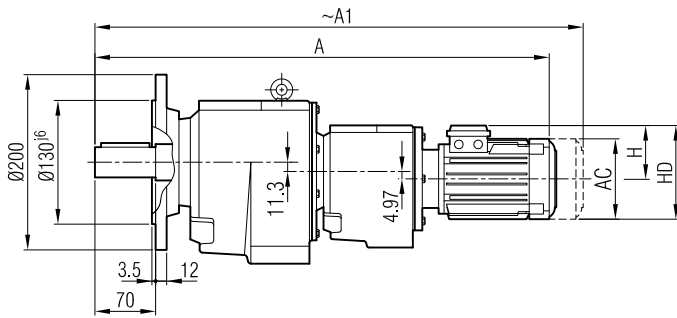
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 62 İR 52 / İRA 62 İR 53
İRA 63 İR 52 / İRA 63 İR 53

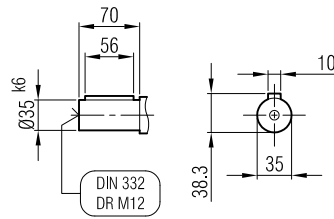




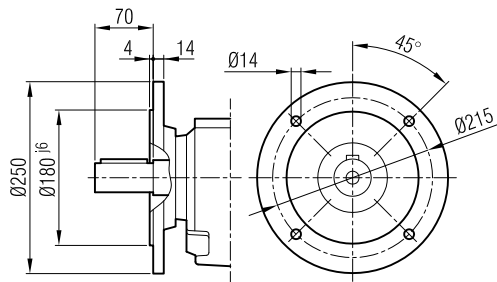
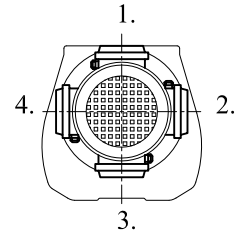
İRFM 62 İR 52
İRFM 63 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

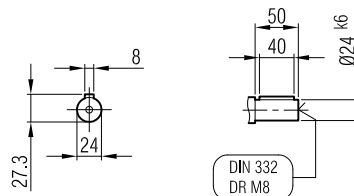
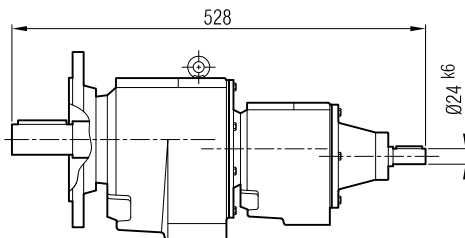


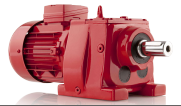
Ø250
(Opsiyonel / Optional / Opcional)

| | | | | | |
|----------------|-----|--|--|--|--|
| | 71 | | | | |
| A | 616 | | | | |
| A ₁ | 667 | | | | |
| H | 111 | | | | |
| HD | 182 | | | | |
| AC | 138 | | | | |

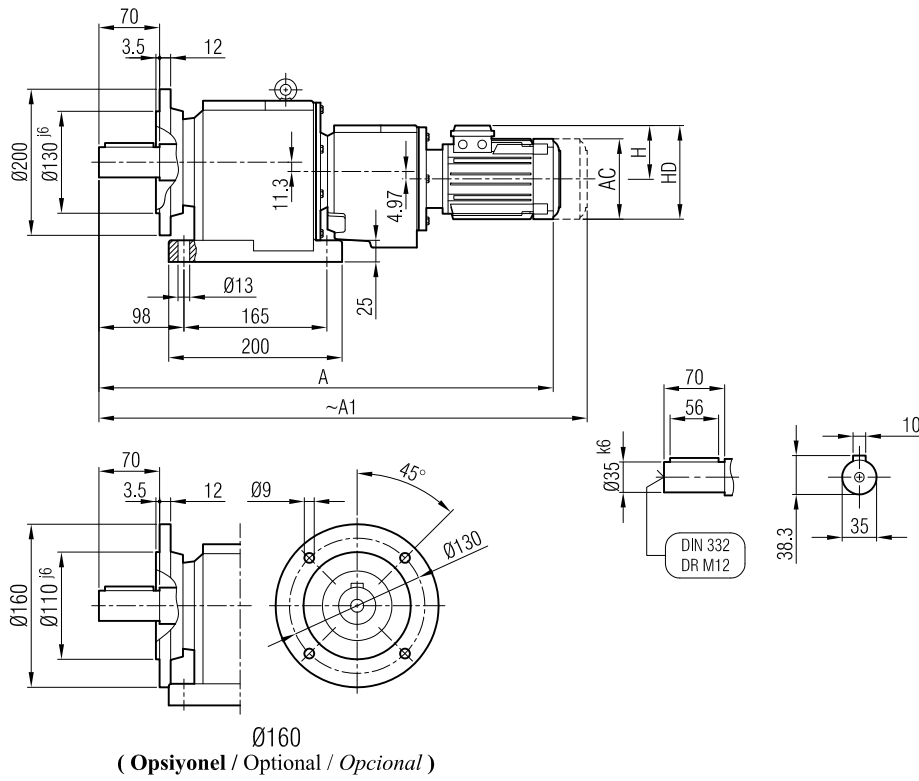
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 62 İR 52 / İRF 62 İR 53
İRF 63 İR 52 / İRF 63 İR 53

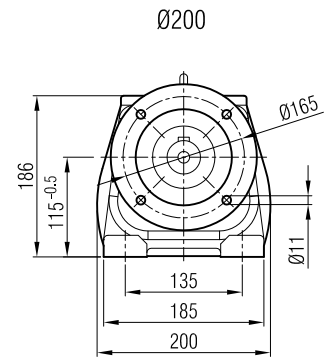




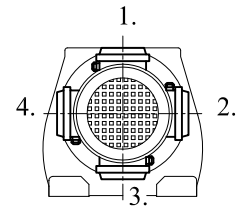
İRAFM 62 İR 52
İRAFM 63 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



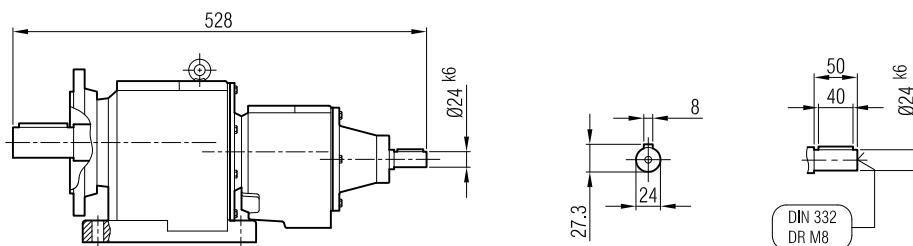
Terminal Box Positions
Posiciones de la caja de terminales



| | | | | | |
|----------------|-----|--|--|--|--|
| | 71 | | | | |
| A | 616 | | | | |
| A ₁ | 667 | | | | |
| H | 111 | | | | |
| HD | 182 | | | | |
| AC | 138 | | | | |

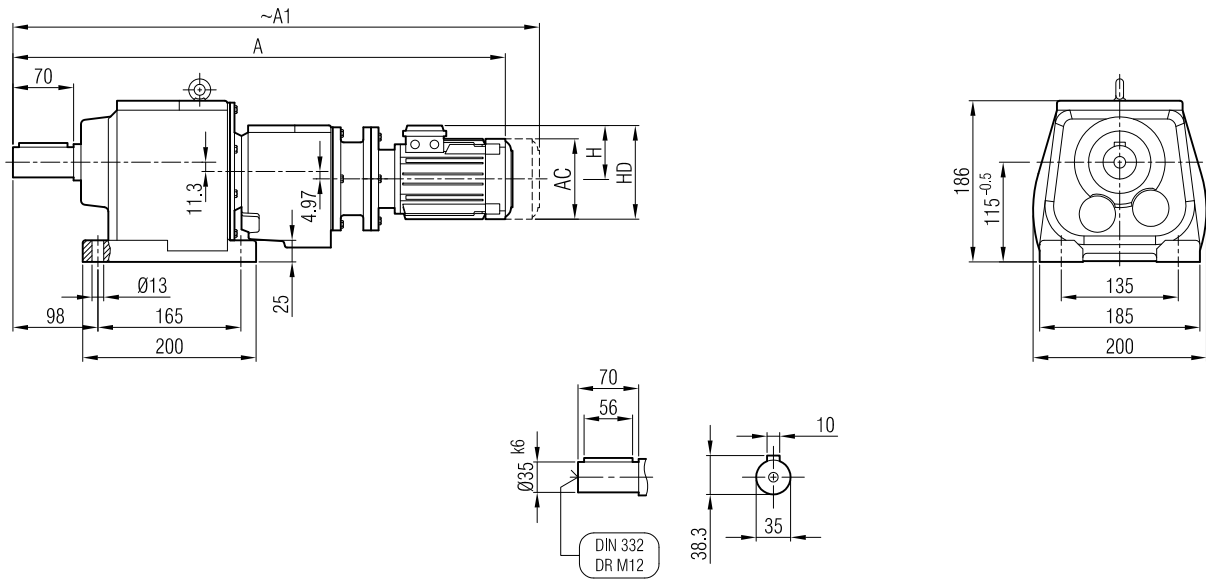
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRAF 62 İR 52 / İRAF 62 İR 53
İRAF 63 İR 52 / İRAF 63 İR 53

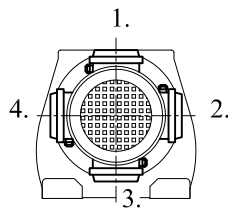




İRAPM 62 İR 52
İRAPM 63 İR 52



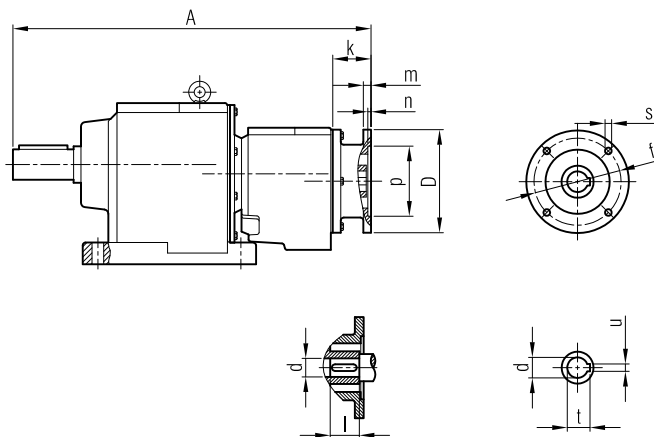
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 631 | 665 | | | |
| A ₁ | 687 | 716 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

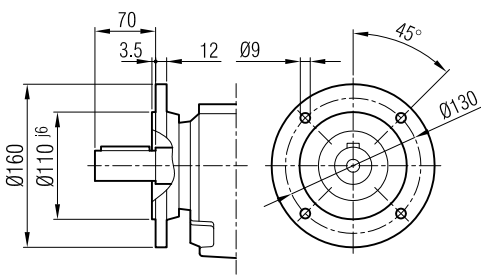
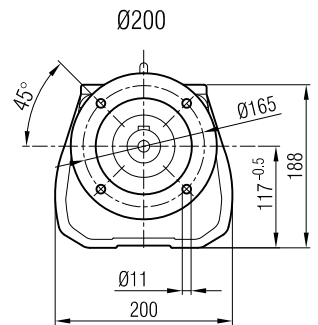
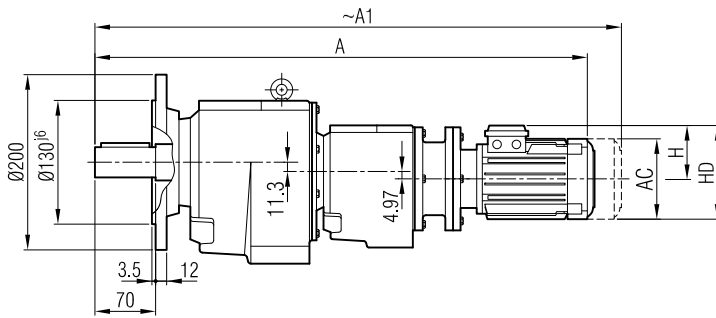
İRAP 62 İR 52 / İRAP 62 İR 53
İRAP 63 İR 52 / İRAP 63 İR 53



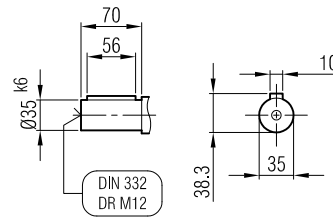
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 434 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 443 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



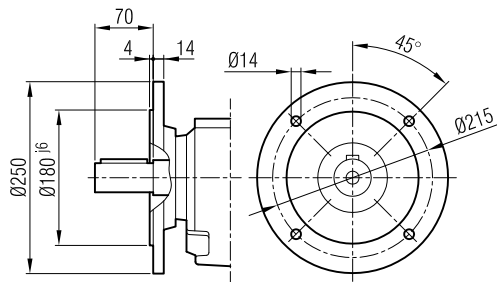
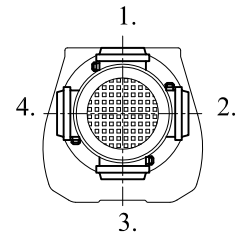
İRFPM 62 İR 52
İRFPM 63 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

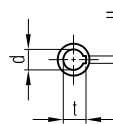
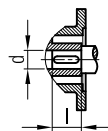
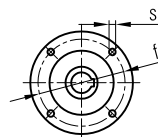
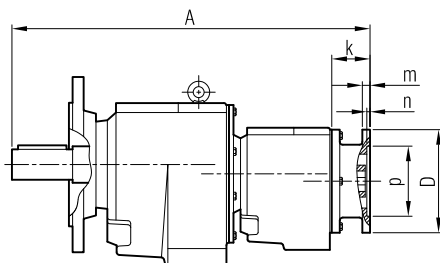


Ø250
(Opsiyonel / Optional / Opcional)

| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 631 | 665 | | | |
| A ₁ | 687 | 716 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

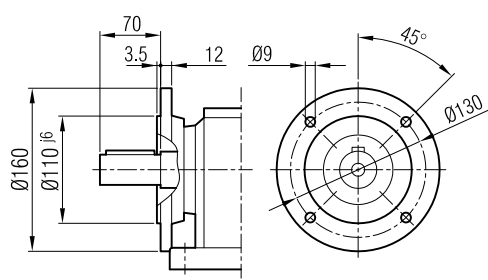
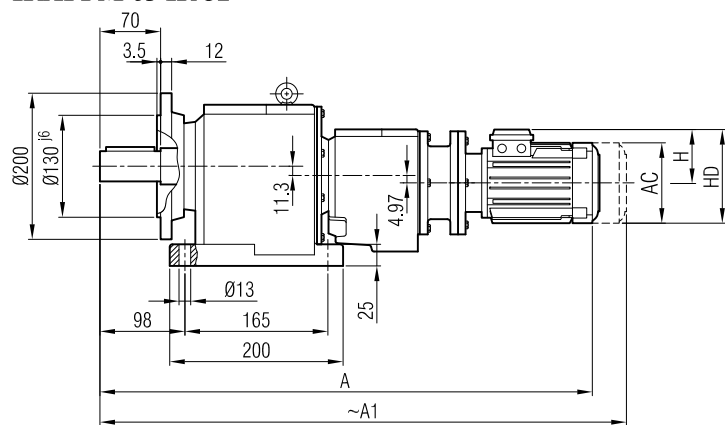
İRFP 62 İR 52 / İRFP 62 İR 53
İRFP 63 İR 52 / İRFP 63 İR 53



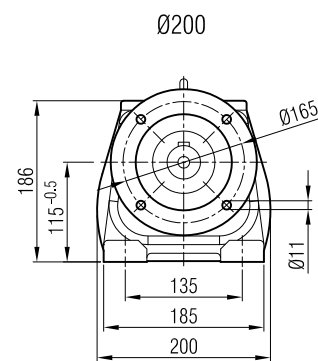
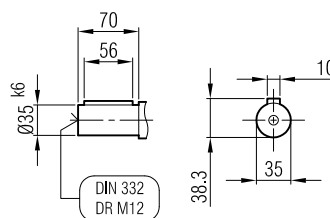
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 434 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 443 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



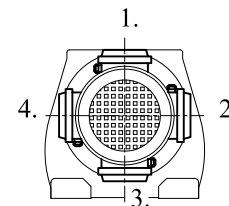
İRAFPM 62 İR 52
İRAFPM 63 İR 52



Ø160
(Opsiyonel / Optional / Opcional)



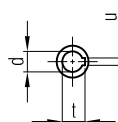
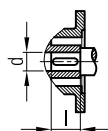
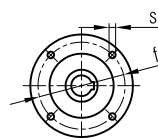
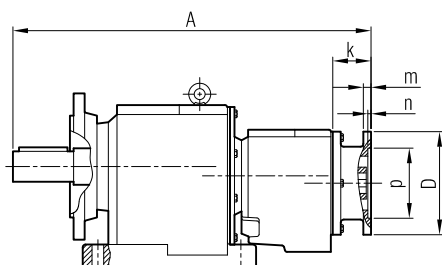
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | | | |
|----------------|-------|-------|--|--|--|
| A | 631 | 665 | | | |
| A ₁ | 687 | 716 | | | |
| H | 97 | 111 | | | |
| HD | 160 | 182 | | | |
| AC | 121 | 138 | | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

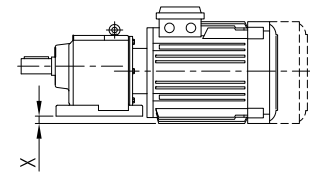
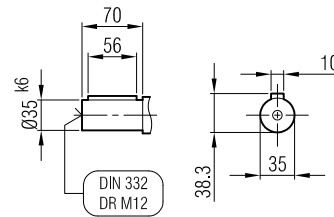
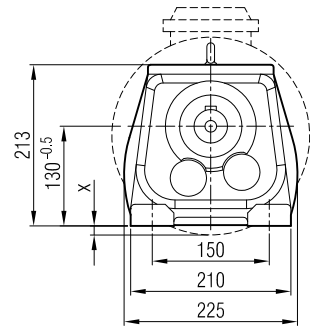
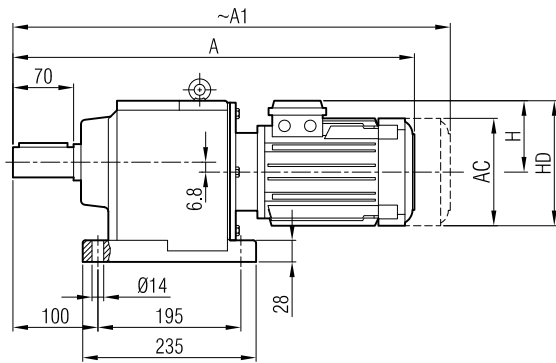
İRAFP 62 İR 52 / İRAFP 62 İR 53
İRAFP 63 İR 52 / İRAFP 63 İR 53



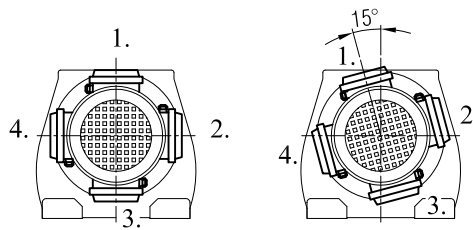
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|----|------|---|---|----|----|------|---|
| 63/B5 | 434 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 443 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |



İRAM 721
İRAM 731



Terminal Box Positions
Posiciones de la caja de terminales



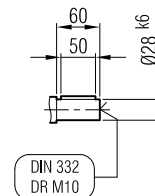
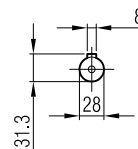
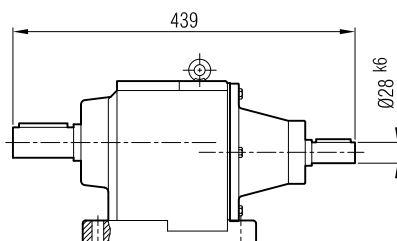
71-90-100-112
132 **Tip**/Type/Typ

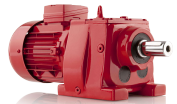
80 **Tip**/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M |
|----------------|-----|-----|------|------|-----|-----|-------|-------|
| A | 476 | 506 | 537 | 562 | 603 | 626 | 674 | 712 |
| A ₁ | 527 | 575 | 603 | 628 | 681 | 709 | 774 | 812 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

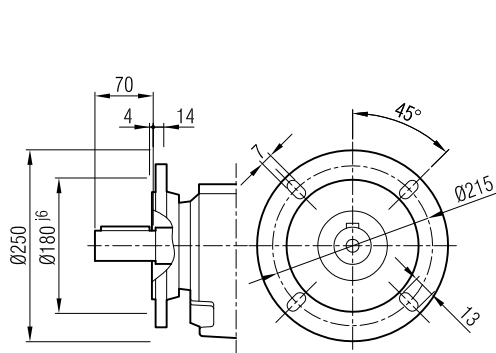
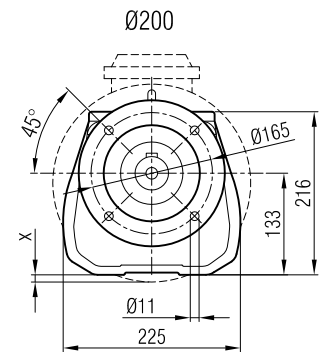
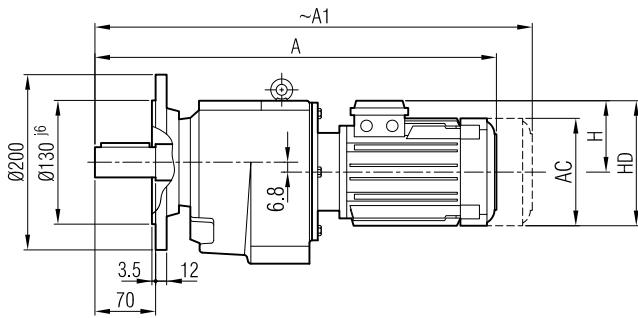
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 721
İRA 731

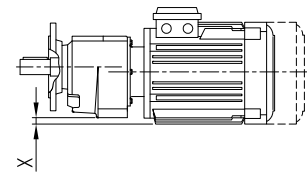
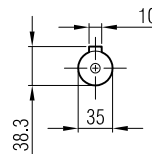
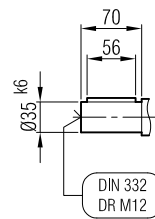




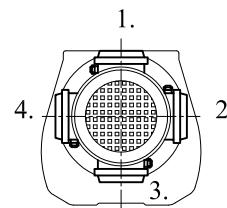
İRFM 721
İRFM 731



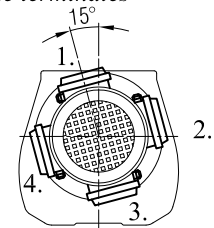
Ø250
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



71-90-100-112-132
Tip/Type/Typ

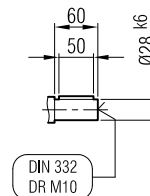
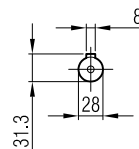
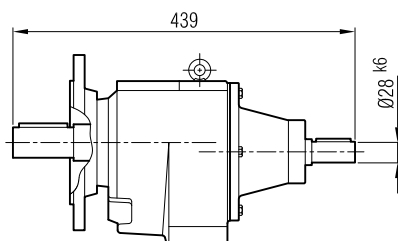


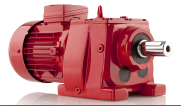
80 Tip/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M |
|----------------|-----|-----|------|------|-----|-----|-------|-------|
| A | 476 | 506 | 537 | 562 | 603 | 626 | 674 | 712 |
| A ₁ | 527 | 575 | 603 | 628 | 681 | 709 | 774 | 812 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

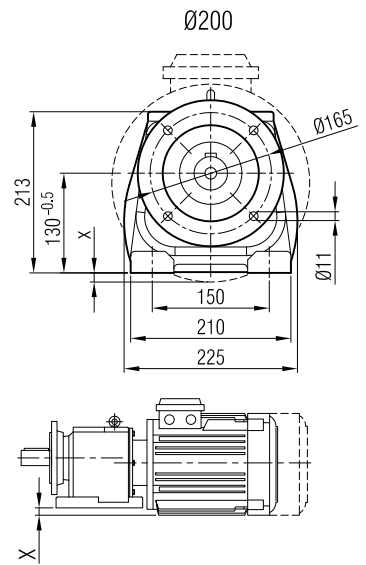
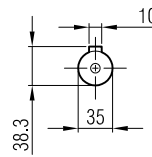
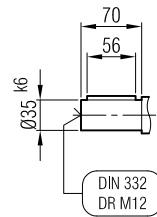
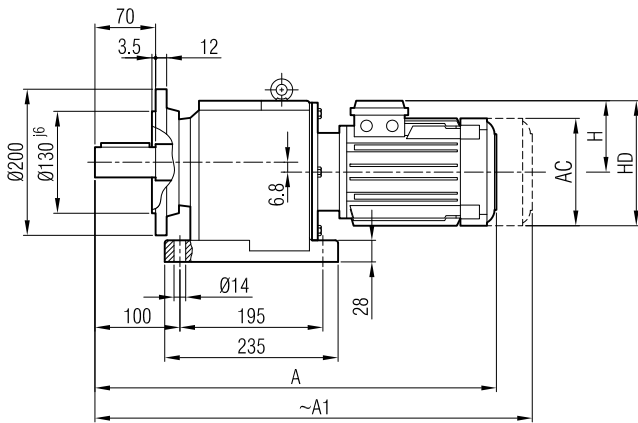
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 721
İRF 731

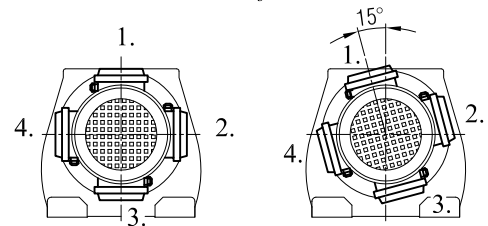




İRAF 721
İRAF 731



Terminal Box Positions
Posiciones de la caja de terminales

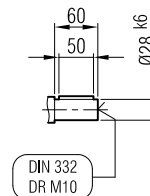
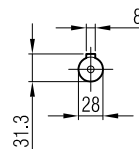
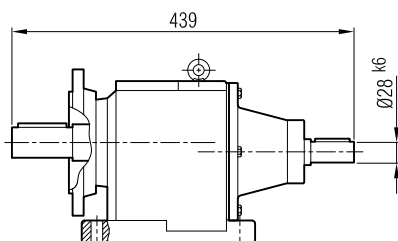


71-90-100-112
132 **Tip/Type/Typ**

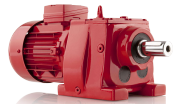
80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M |
|----------------|-----|-----|------|------|-----|-----|-------|-------|
| A | 476 | 506 | 537 | 562 | 603 | 626 | 674 | 712 |
| A ₁ | 527 | 575 | 603 | 628 | 681 | 709 | 774 | 812 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

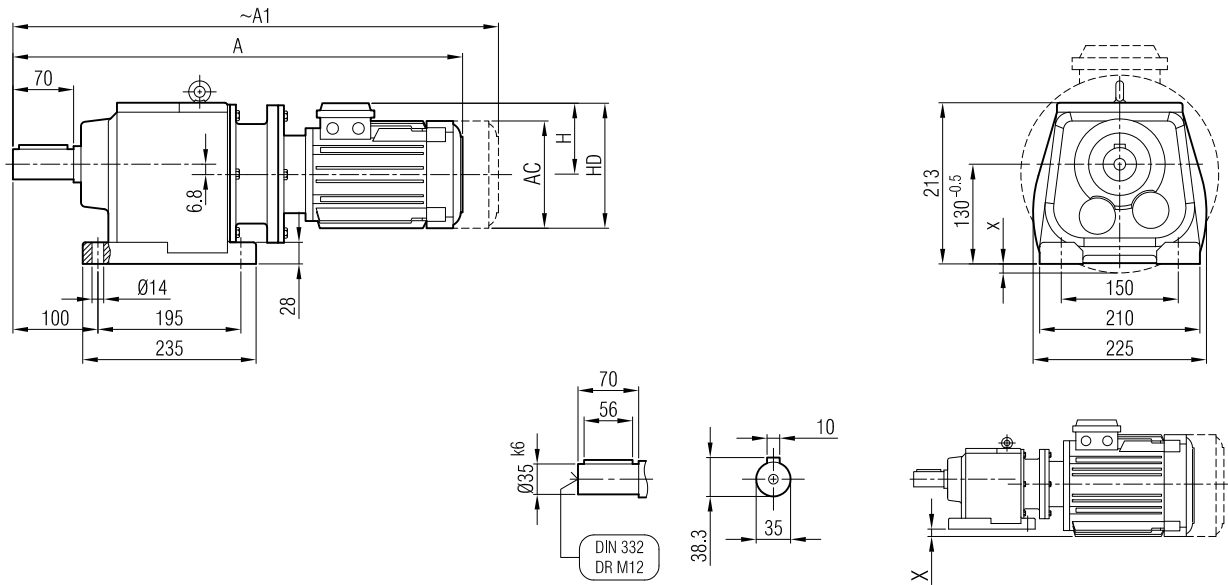
İRAF 721
İRAF 731



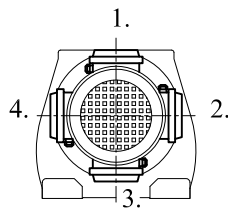
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



İRAPM 721
İRAPM 731



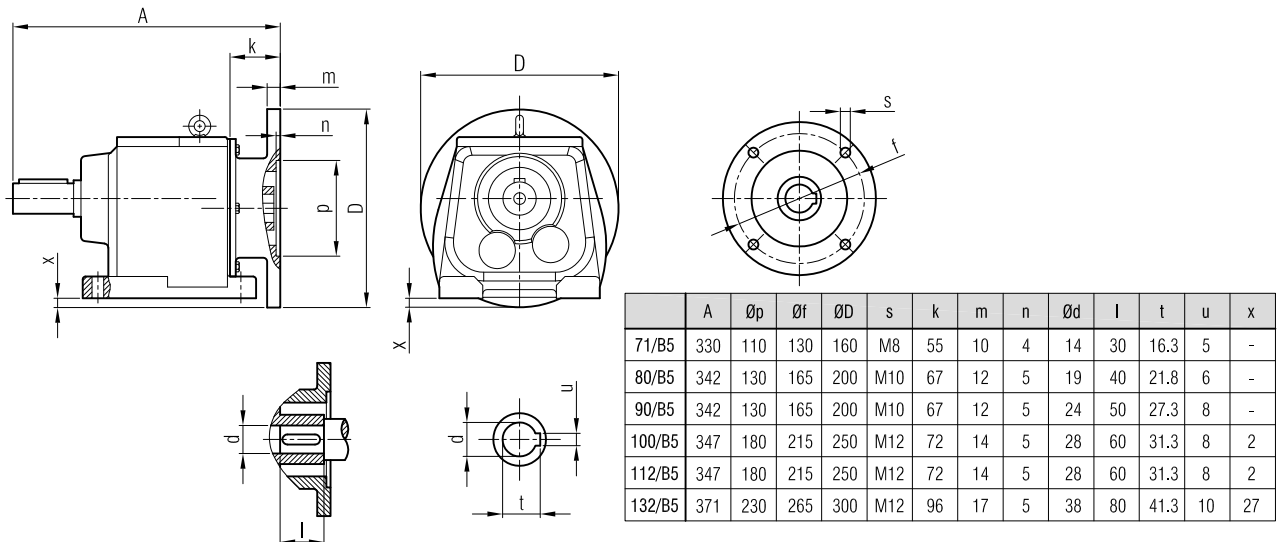
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|----------|
| A | 553 | 586 | 601 | 626 | 663 | 683 | 751 | 789 |
| A ₁ | 604 | 655 | 667 | 692 | 741 | 766 | 851 | 889 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

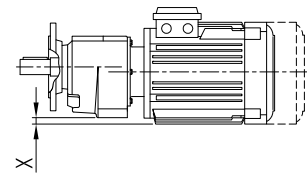
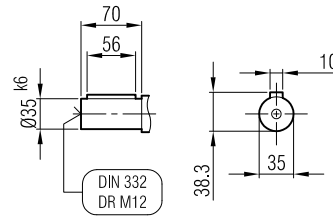
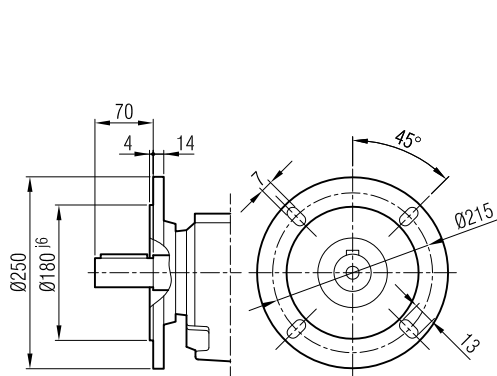
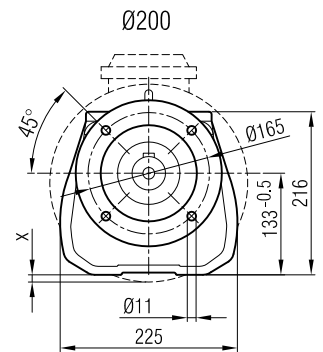
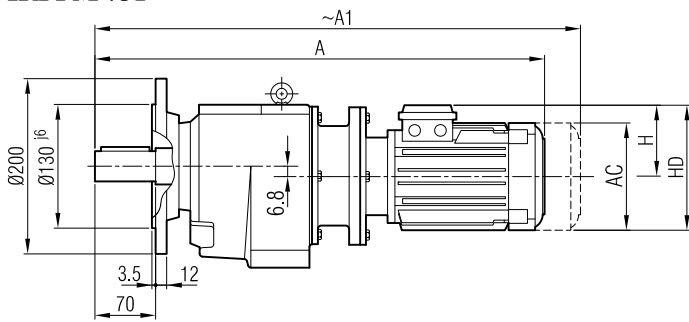
İRAP 721
İRAP 731



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|----|
| 71/B5 | 330 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 112/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 132/B5 | 371 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 27 |

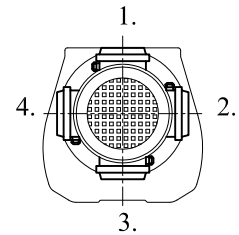


İRFPM 721
İRFPM 731



Ø250
(Opsiyonel / Optional / Opcional)

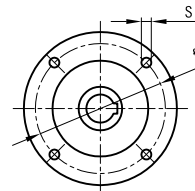
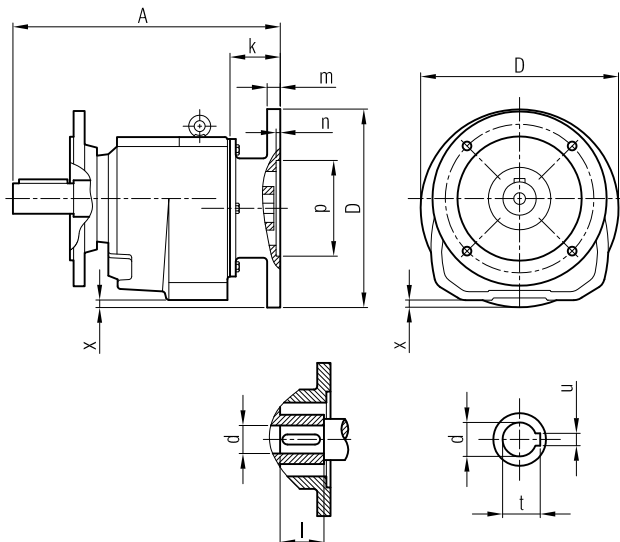
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|----------|
| A | 553 | 586 | 601 | 626 | 663 | 683 | 751 | 789 |
| A ₁ | 604 | 655 | 667 | 692 | 741 | 766 | 851 | 889 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

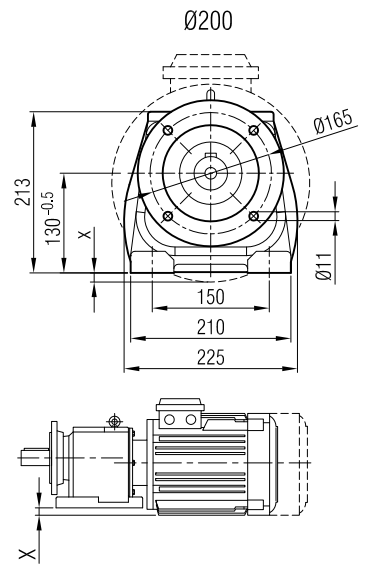
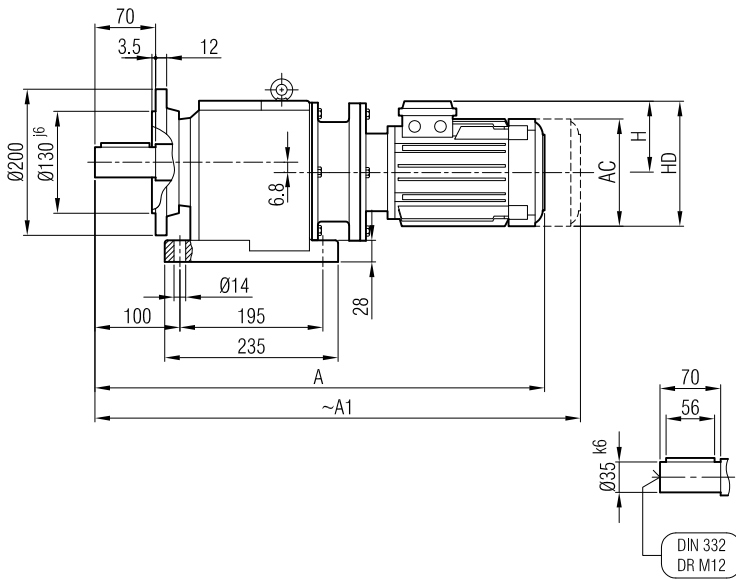
İRF 721
İRF 731



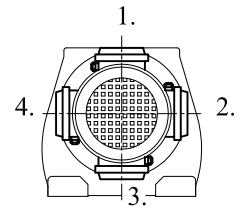
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|----|
| 71/B5 | 330 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 112/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 132/B5 | 371 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 27 |



İRAFPM 721
İRAFPM 731



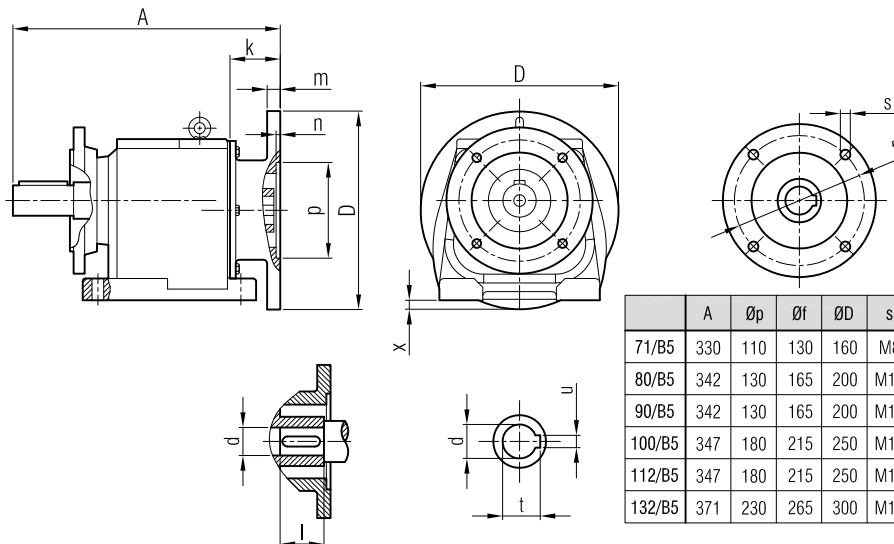
Terminal Box Positions
Posiciones de la caja de terminales



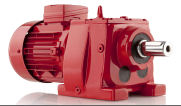
| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|----------|
| A | 553 | 586 | 601 | 626 | 663 | 683 | 751 | 789 |
| A ₁ | 604 | 655 | 667 | 692 | 741 | 766 | 851 | 889 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 |
| x | - | - | - | - | - | - | 6 | 6 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

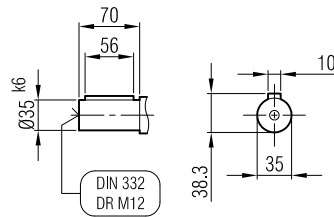
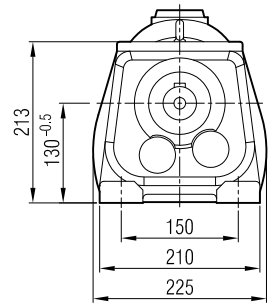
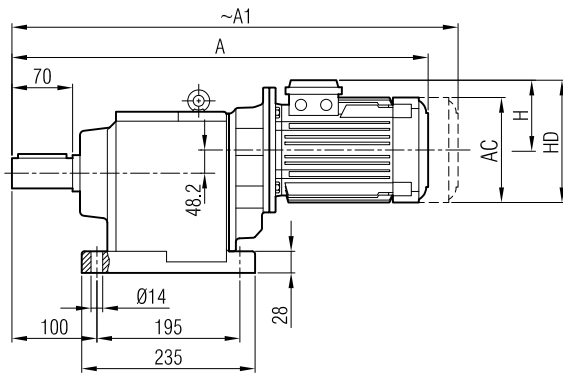
İRAFP 721
İRAFP 731



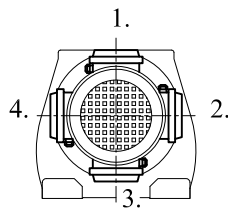
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|----|
| 71/B5 | 330 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 342 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 112/B5 | 347 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 2 |
| 132/B5 | 371 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 27 |



İRAM 741



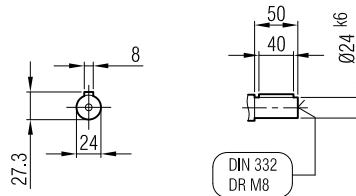
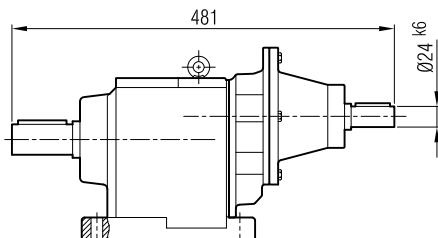
Terminal Box Positions
Posiciones de la caja de terminales

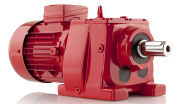


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 549 | 578 | | | | |
| A ₁ | 600 | 647 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

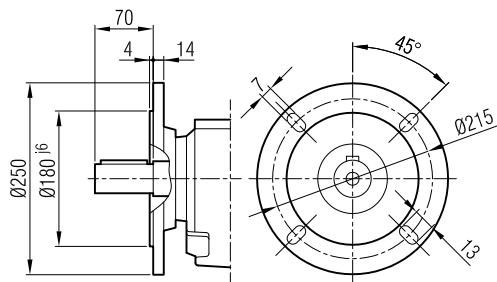
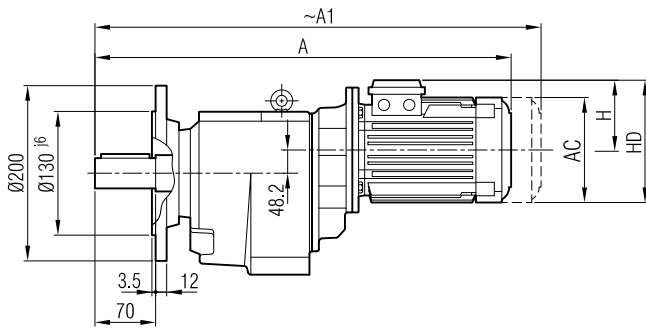
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 741

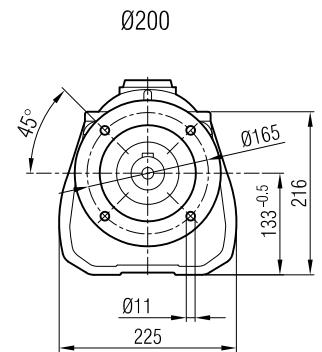
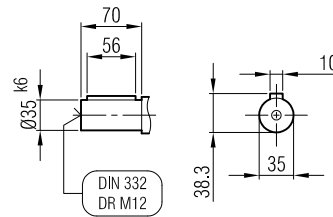




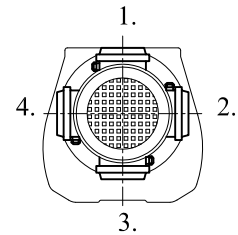
İRFM 741



Ø250
(Opsiyonel / Optional / Opcional)



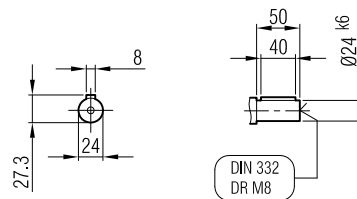
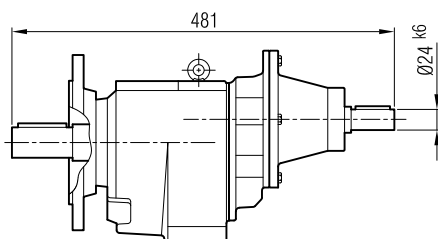
Terminal Box Positions
Posiciones de la caja de terminales

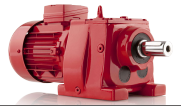


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 549 | 578 | | | | |
| A ₁ | 600 | 647 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

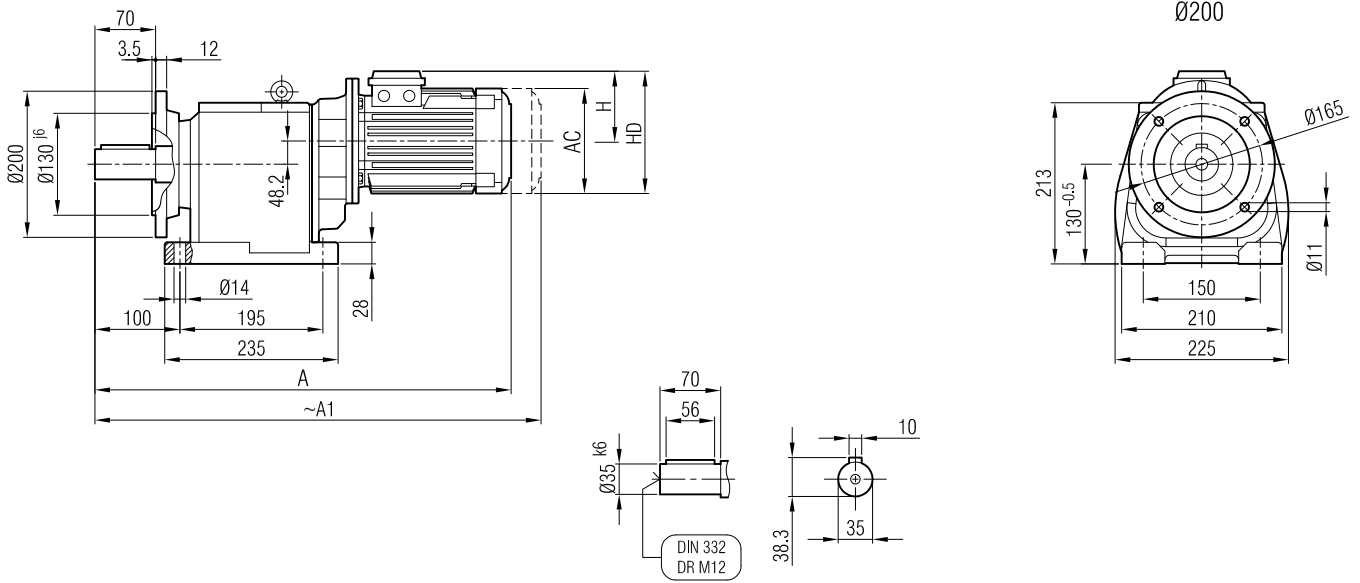
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 741

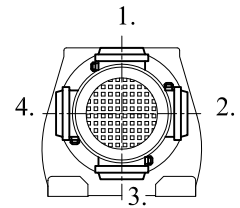




İRAF 741



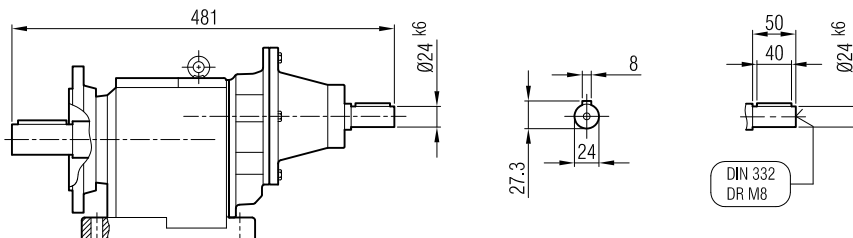
Terminal Box Positions
Posiciones de la caja de terminales

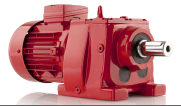


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 549 | 578 | | | | |
| A ₁ | 600 | 647 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

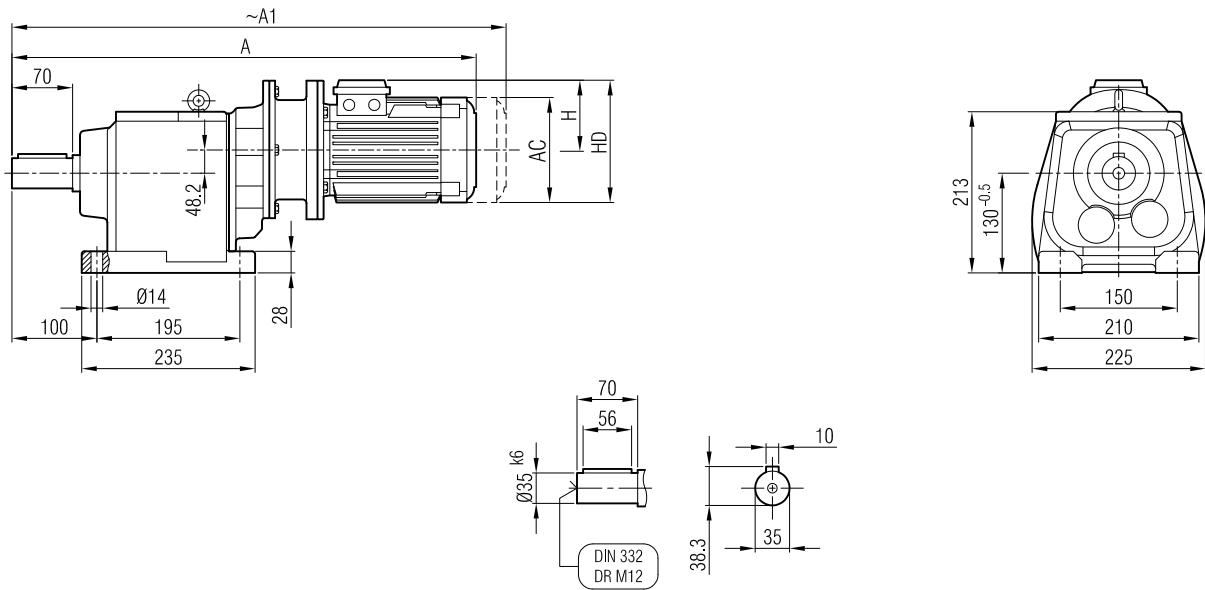
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRAF 741

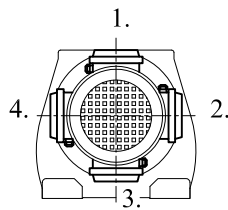




İRAPM 741



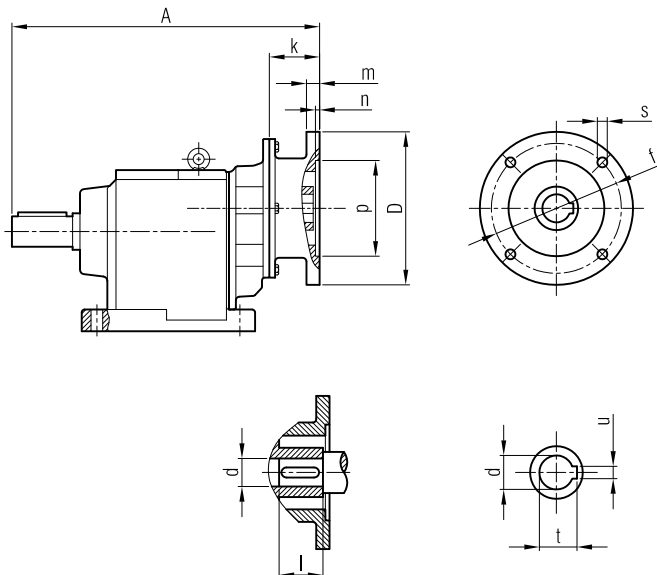
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 570 | 606 | 632 | | |
| A ₁ | 626 | 657 | 701 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

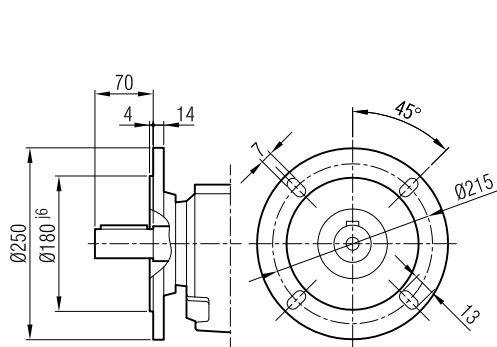
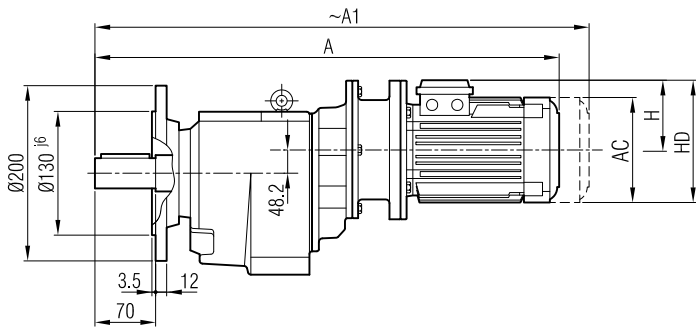
İRAP 741



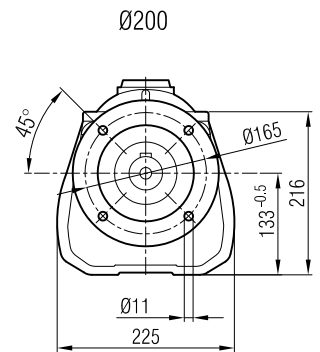
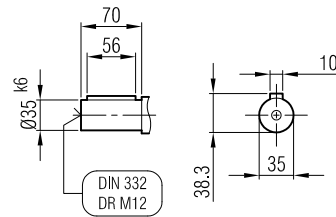
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



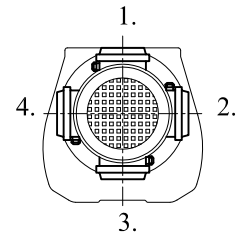
İRFPM 741



Ø250
(Opsiyonel / Optional / Opcional)



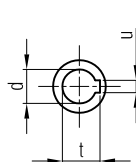
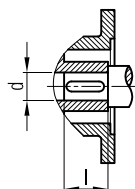
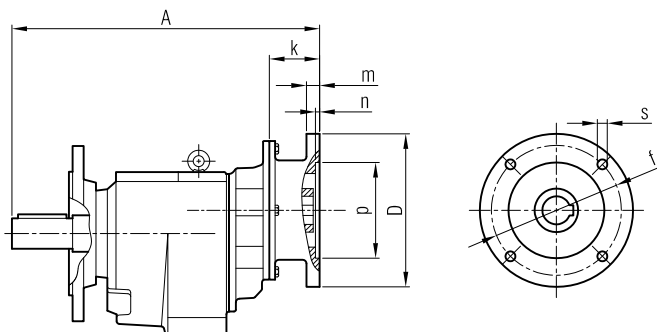
Terminal Box Positions
Posiciones de la caja de terminales



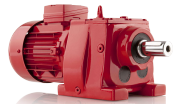
| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 570 | 606 | 632 | | |
| A ₁ | 626 | 657 | 701 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

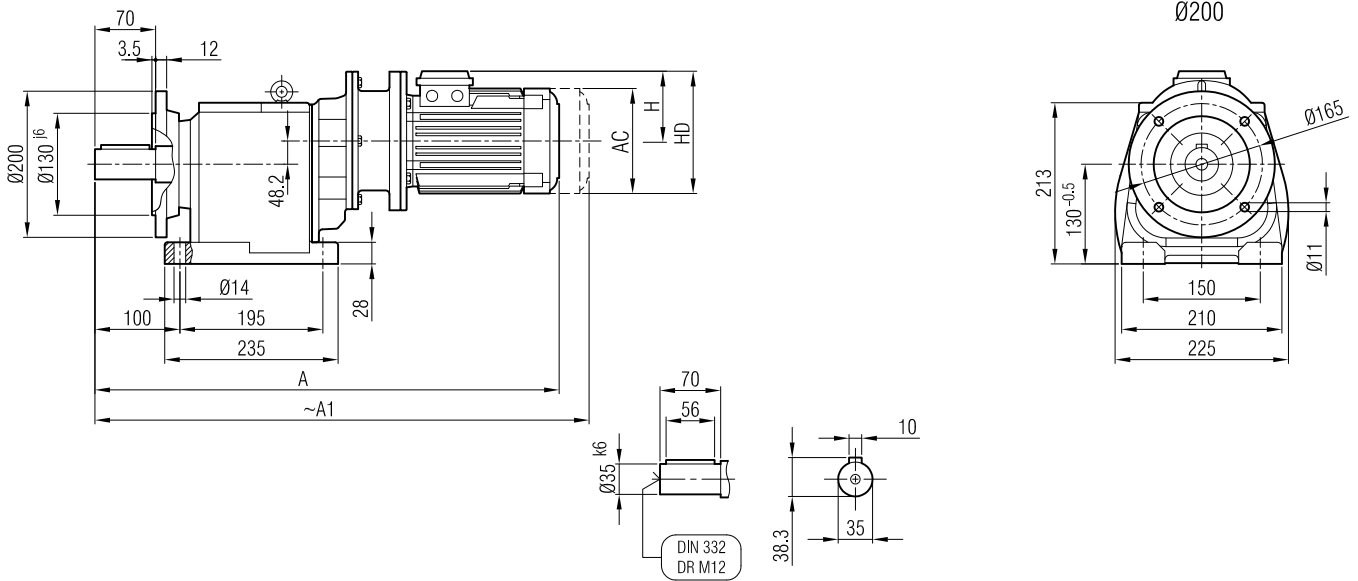
İRFP 741



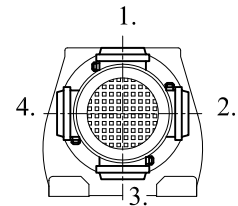
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAFPM 741



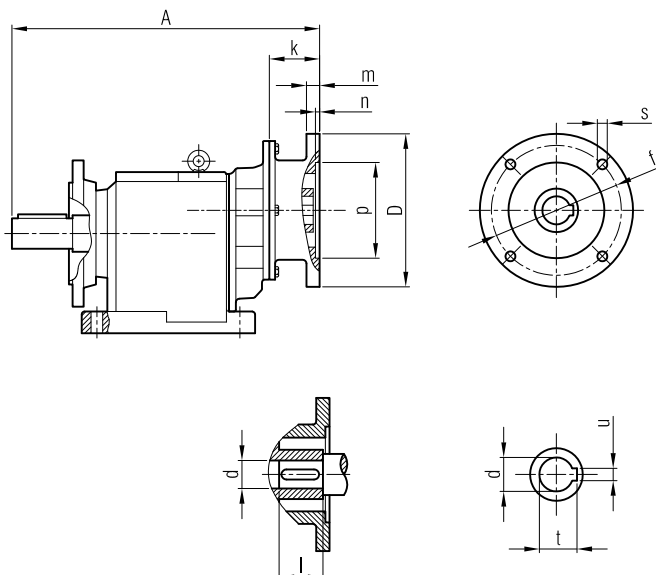
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 570 | 606 | 632 | | |
| A ₁ | 626 | 657 | 701 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

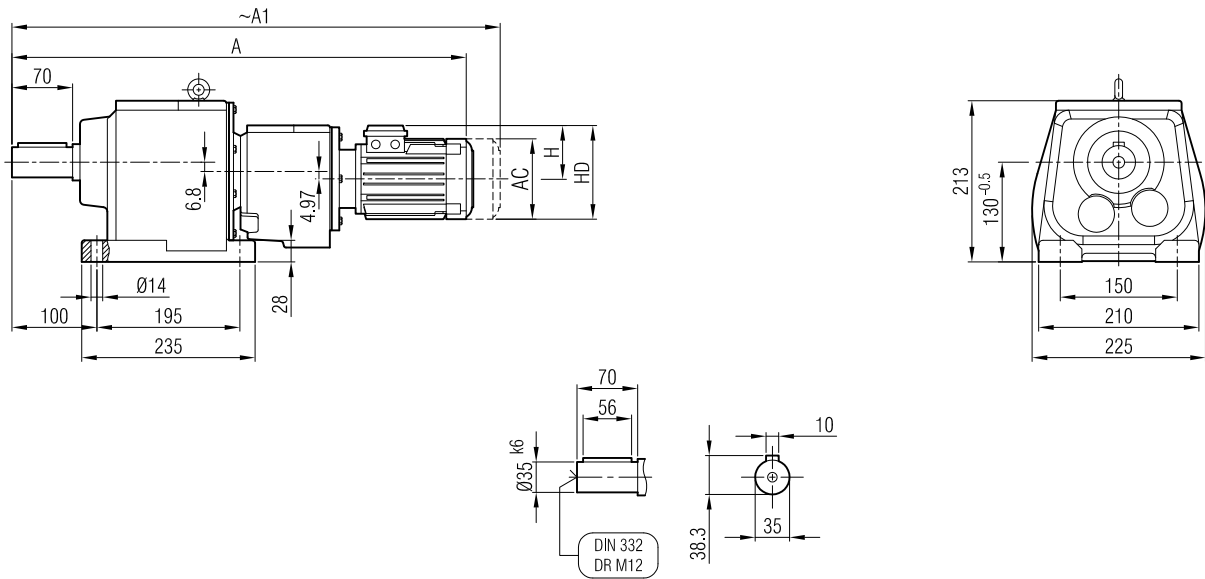
İRAFP 741



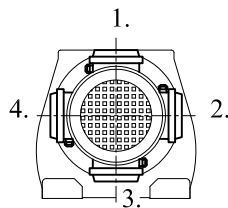
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAM 721 İR 53
İRAM 731 İR 52



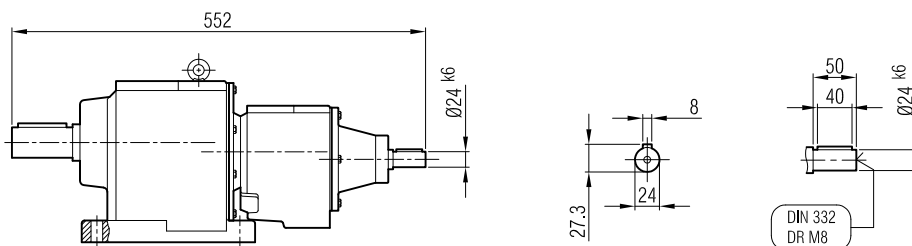
Terminal Box Positions
Posiciones de la caja de terminales

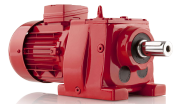


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 641 | 668 | | | | |
| A ₁ | 692 | 737 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

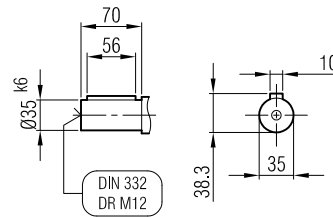
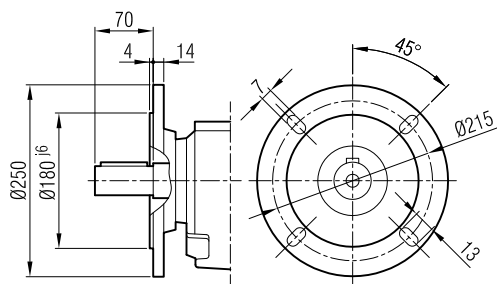
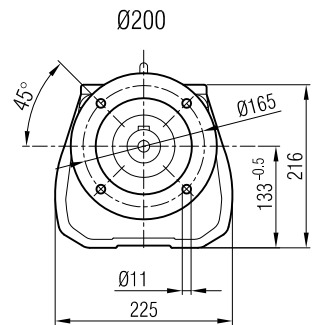
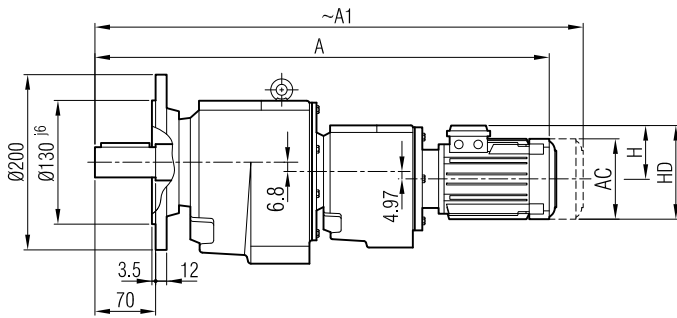
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 721 İR 52 / İRA 721 İR 53
İRA 731 İR 52 / İRA 731 İR 53



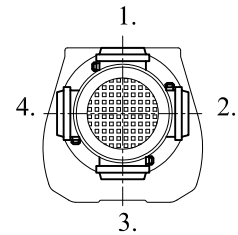


İRFM 721 İR 53
İRFM 731 İR 52



Ø250
(Opsiyonel / Optional / Opcional)

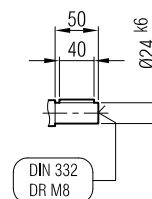
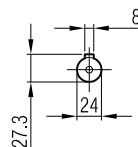
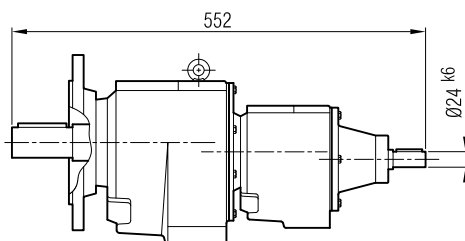
Terminal Box Positions
Posiciones de la caja de terminales

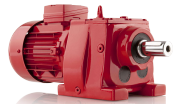


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 641 | 668 | | | | |
| A ₁ | 692 | 737 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

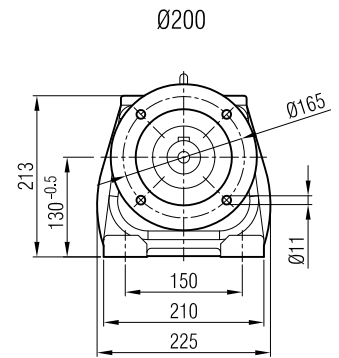
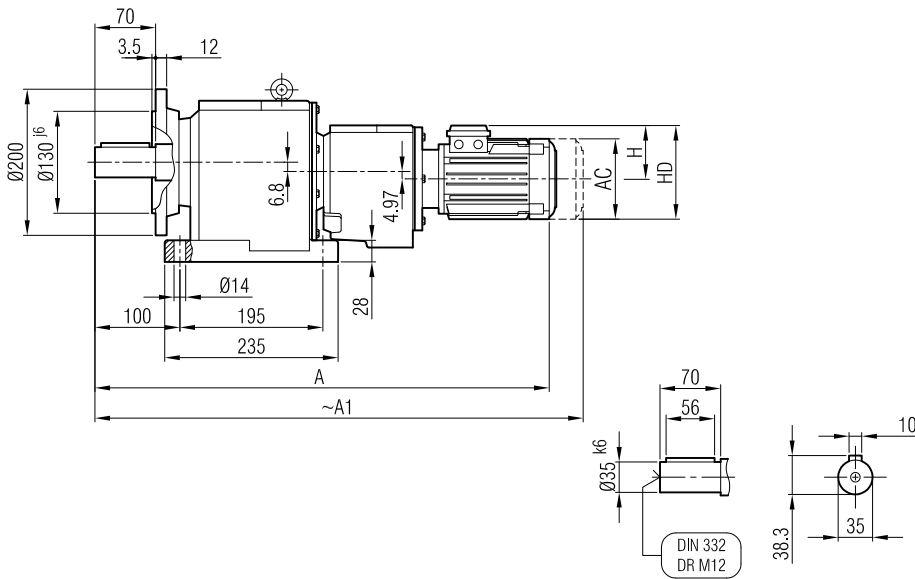
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 721 İR 52 / İRF 721 İR 53
İRF 731 İR 52 / İRF 731 İR 53

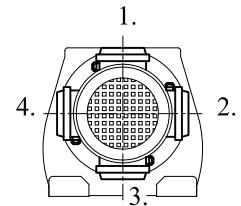




İRAF 721 İR 53
İRAF 731 İR 52



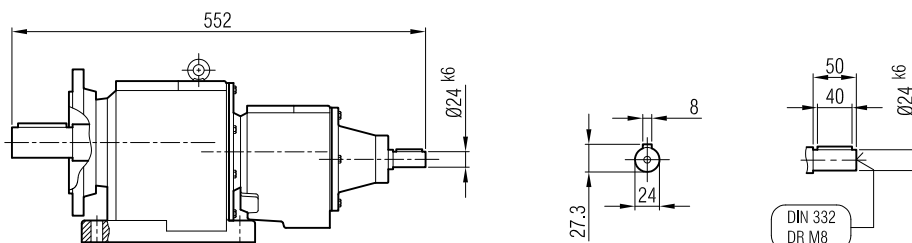
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 641 | 668 | | | | |
| A ₁ | 692 | 737 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

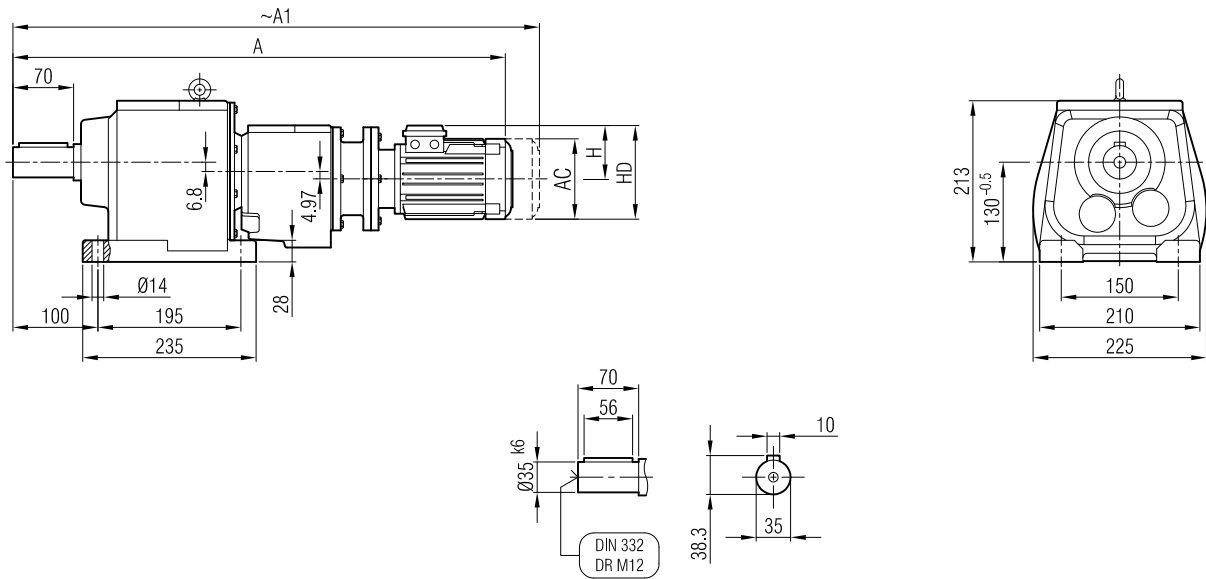
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 721 İR 52 / İRAF 721 İR 53
İRAF 731 İR 52 / İRAF 731 İR 53

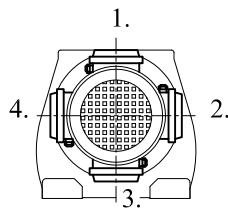




İRAPM 721 İR 53
İRAPM 731 İR 52



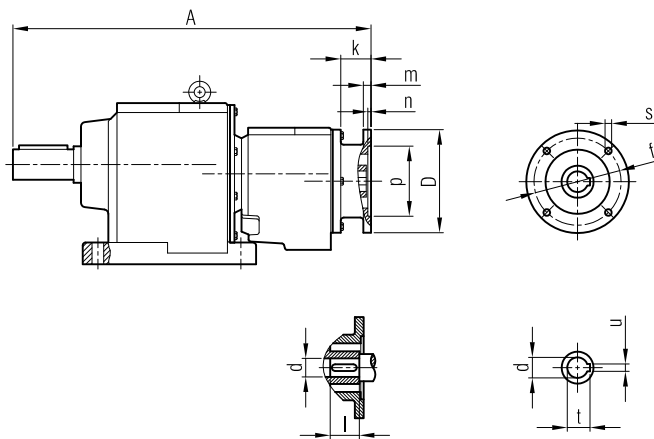
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 655 | 690 | 713 | | |
| A ₁ | 711 | 741 | 782 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

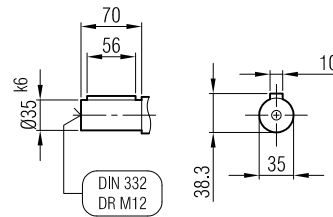
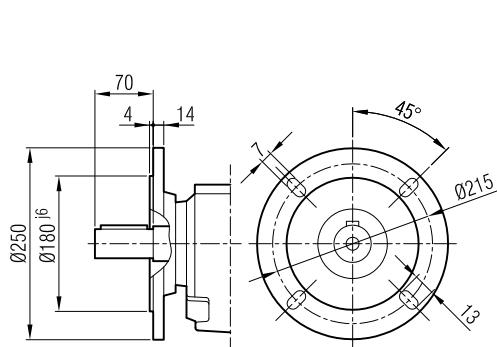
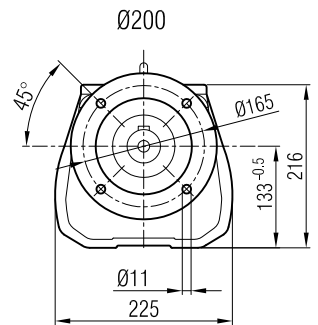
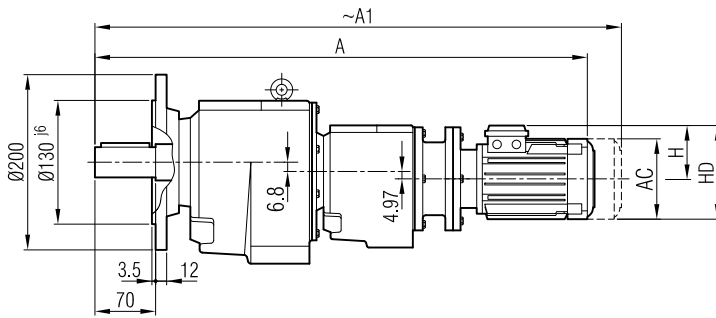
İRAP 721 İR 52 / İRAP 721 İR 53
İRAP 731 İR 52 / İRAP 731 İR 53



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 459 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 467 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 469 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |

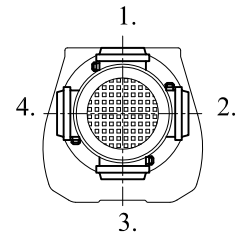


İRFPM 721 İR 53
İRFPM 731 İR 52



Ø250
(Opsiyonel / Optional / Opcional)

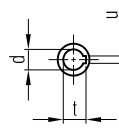
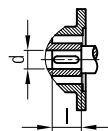
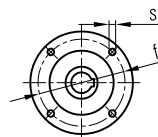
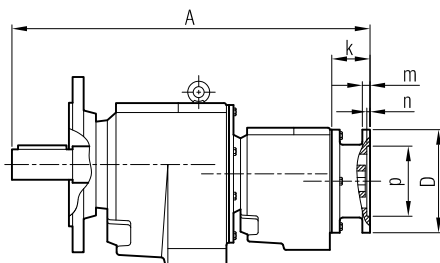
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 655 | 690 | 713 | | |
| A ₁ | 711 | 741 | 782 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

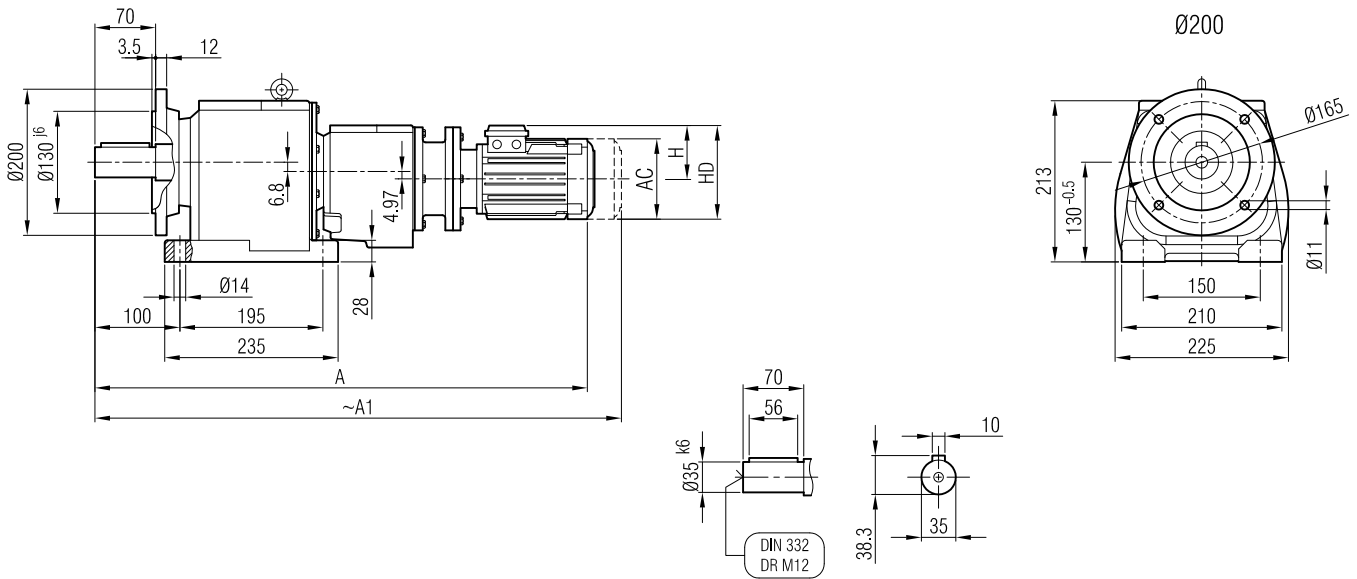
İRFP 721 İR 52 / İRFP 721 İR 53
İRFP 731 İR 52 / İRFP 731 İR 53



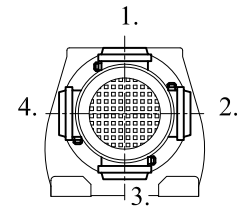
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 459 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 467 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 469 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAFPM 721 İR 53
İRAFPM 731 İR 52



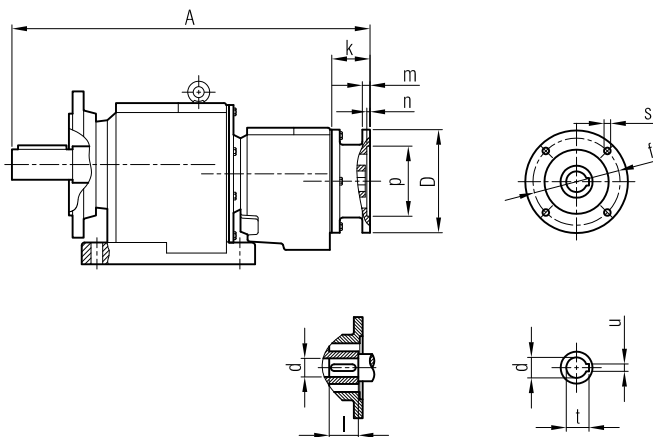
Terminal Box Positions
Posiciones de la caja de terminales



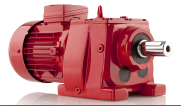
| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 655 | 690 | 713 | | |
| A ₁ | 711 | 741 | 782 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

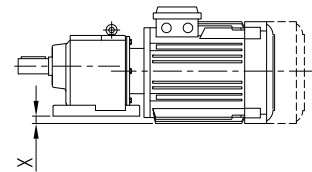
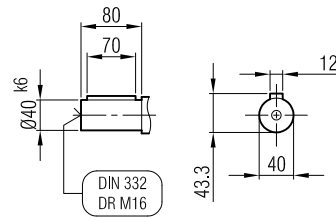
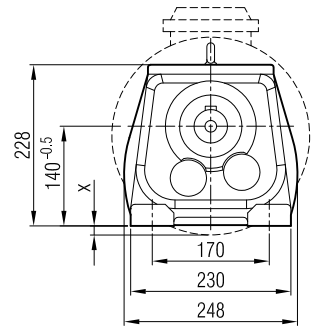
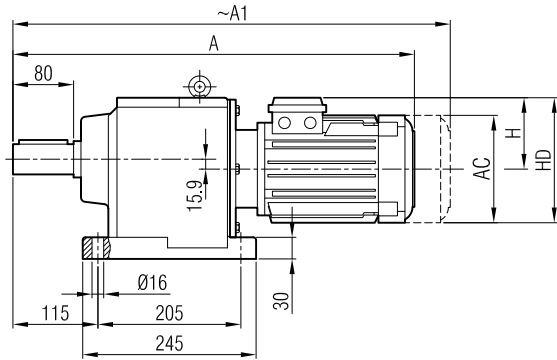
İRAFP 721 İR 52 / İRAFP 721 İR 53
İRAFP 731 İR 52 / İRAFP 731 İR 53



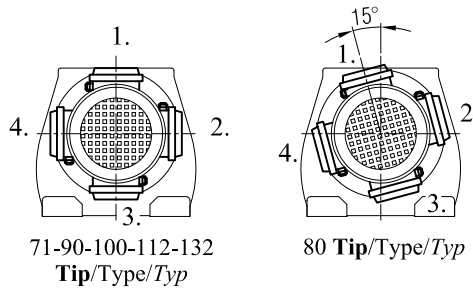
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 459 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 467 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 469 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAM 72
İRAM 73



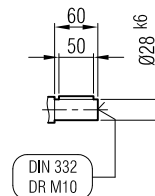
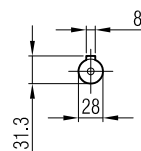
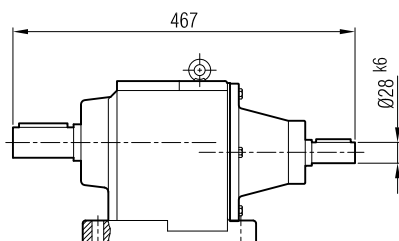
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----|-----|-----|------|------|-----|-----|-------|-------|-------|
| A | 505 | 535 | 565 | 590 | 631 | 654 | 716 | 754 | 832 |
| A1 | 556 | 604 | 631 | 656 | 709 | 737 | 816 | 854 | 947 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

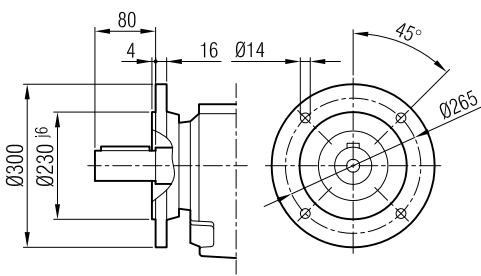
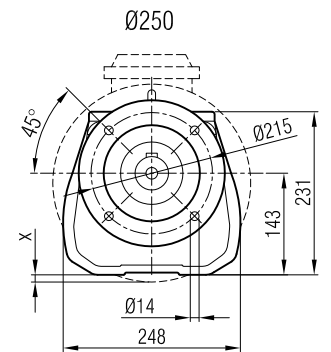
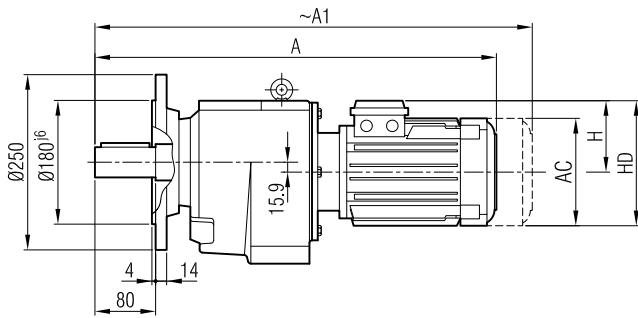
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 72
İRA 73

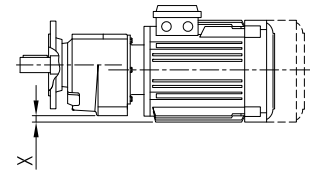
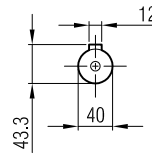
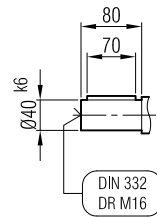




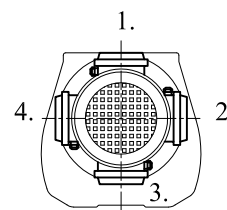
İRFM 72
İRFM 73



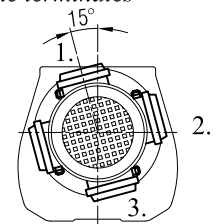
Ø300
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



71-90-100-112-132
Tip/Type/Typ

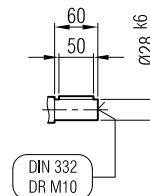
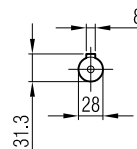
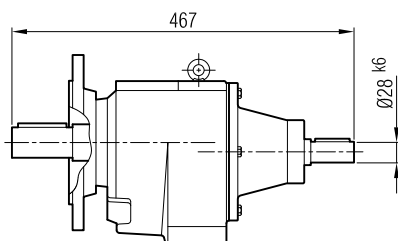


80 Tip/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----|-----|-----|------|------|-----|-----|-------|-------|-------|
| A | 505 | 535 | 565 | 590 | 631 | 654 | 716 | 754 | 832 |
| A1 | 556 | 604 | 631 | 656 | 709 | 737 | 816 | 854 | 947 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

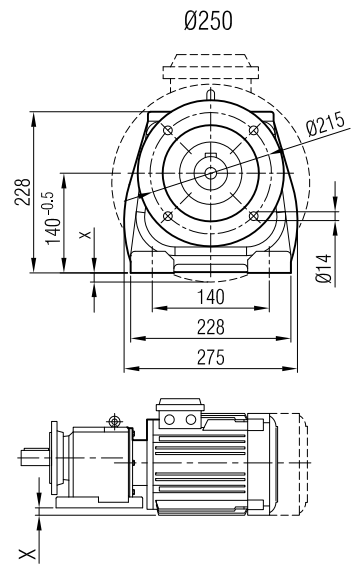
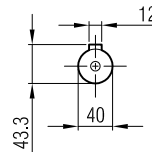
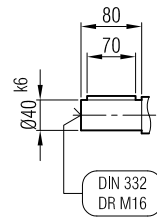
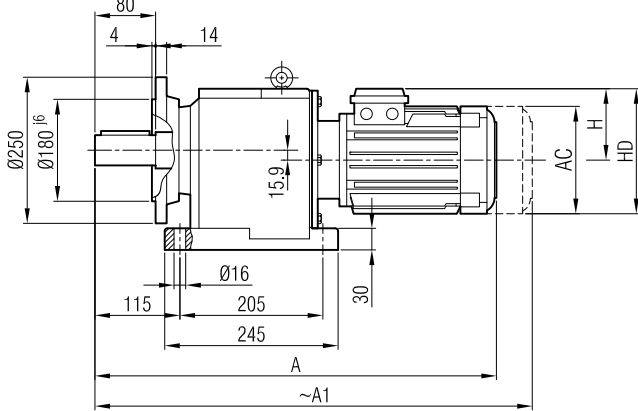
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 72
İRF 73

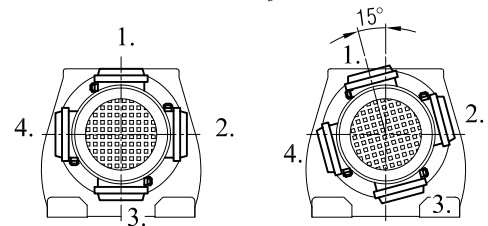




İRAF 72
İRAF 73



Terminal Box Positions
Posiciones de la caja de terminales

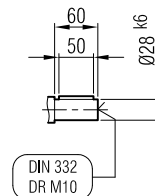
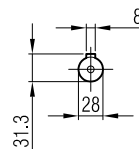
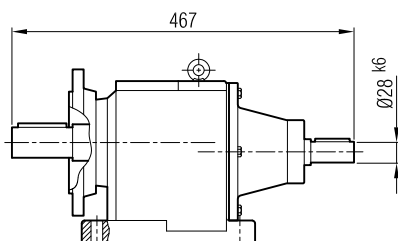


71-90-100-112
132 **Tip**/Type/Typ

80 **Tip**/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----|-----|-----|------|------|-----|-----|-------|-------|-------|
| A | 505 | 535 | 565 | 590 | 631 | 654 | 716 | 754 | 832 |
| A1 | 556 | 604 | 631 | 656 | 709 | 737 | 816 | 854 | 947 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

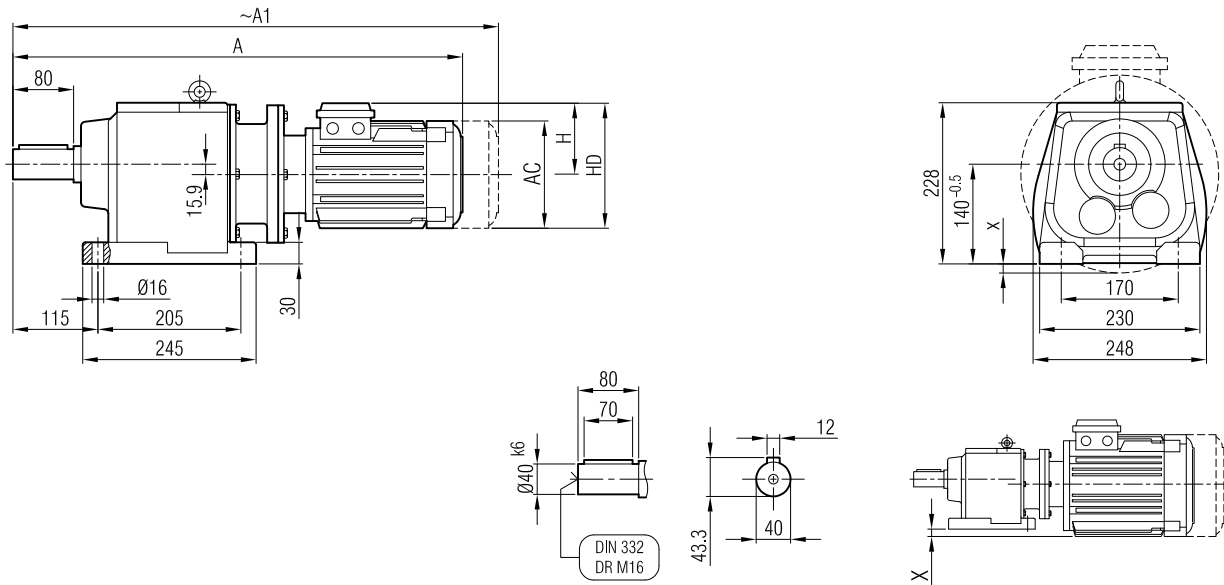
İRAF 72
İRAF 73



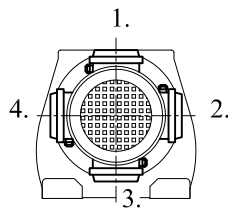
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno



İRAPM 72
İRAPM 73



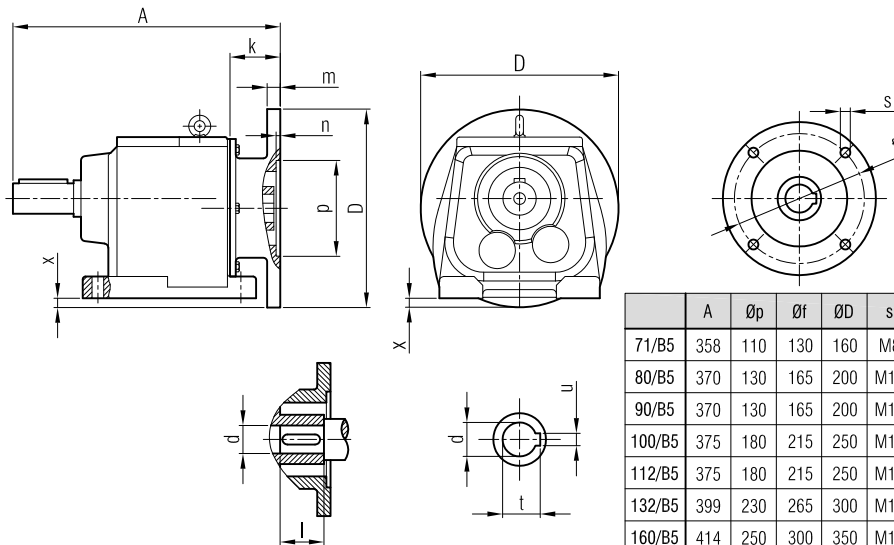
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----|-------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 581 | 614 | 629 | 654 | 691 | 711 | 779 | 817 | 904 |
| A1 | 632 | 683 | 695 | 720 | 769 | 794 | 879 | 917 | 1019 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

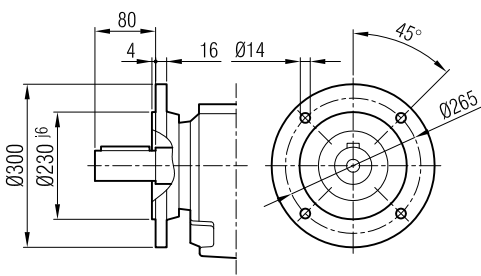
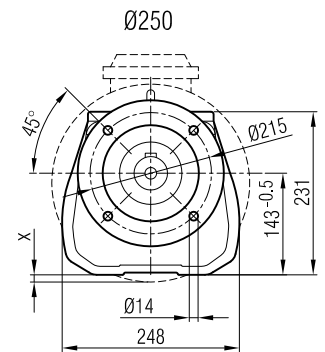
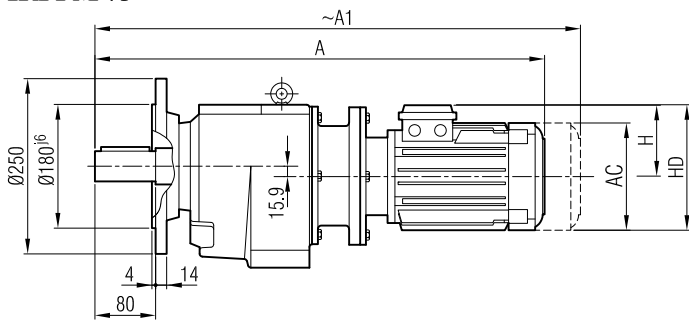
İRAP 72
İRAP 73



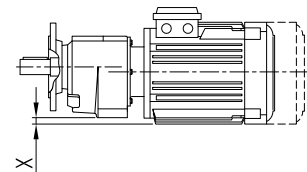
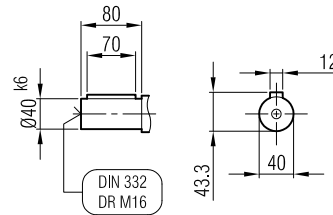
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 112/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 132/B5 | 399 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 26 |
| 160/B5 | 414 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 109 | 45.3 | 12 | 51 |



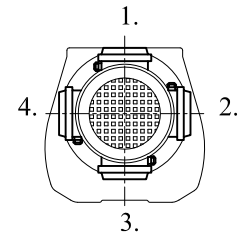
İRFPM 72
İRFPM 73



Ø300
(Opsiyonel / Optional / Opcional)



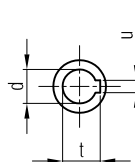
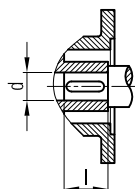
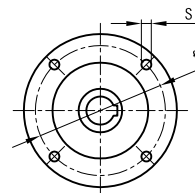
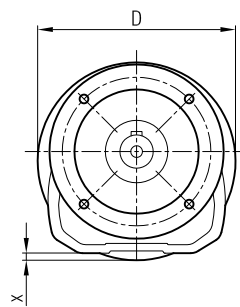
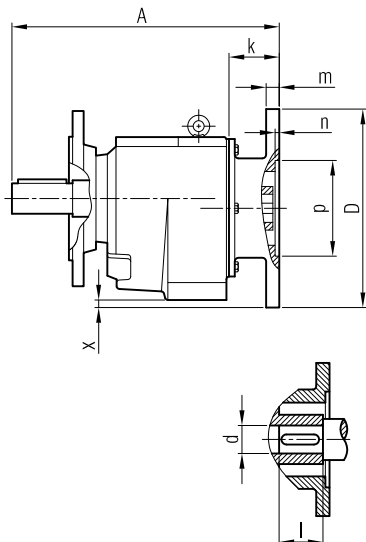
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----|-------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 581 | 614 | 629 | 654 | 691 | 711 | 779 | 817 | 904 |
| A1 | 632 | 683 | 695 | 720 | 769 | 794 | 879 | 917 | 1019 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

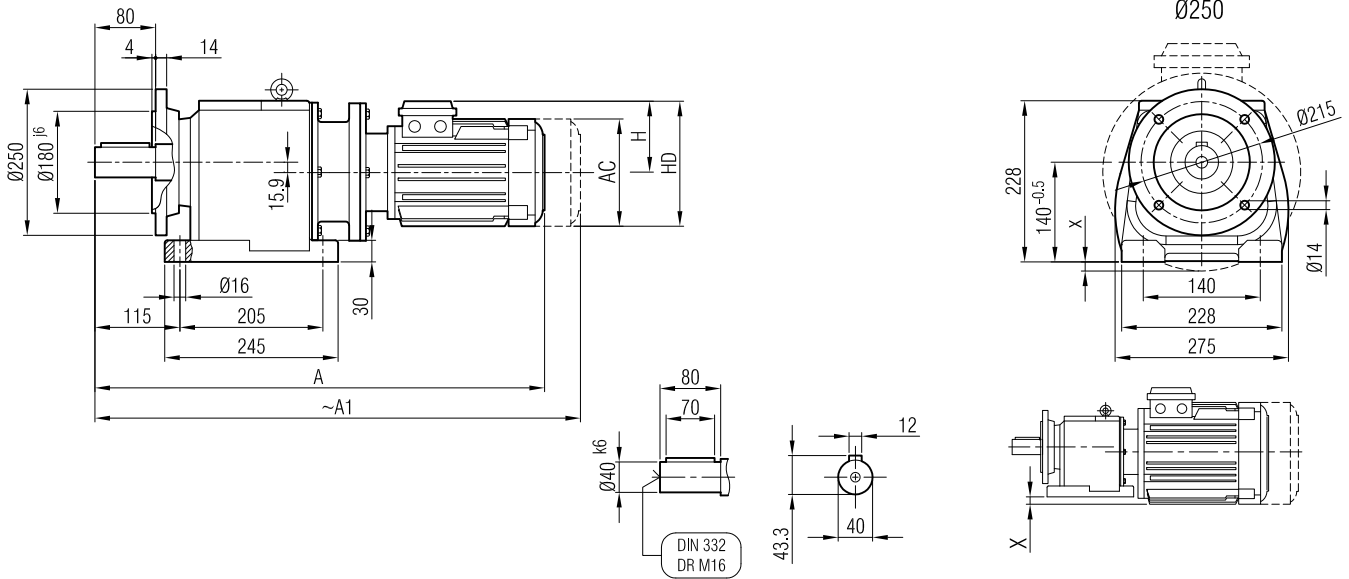
İRFP 72
İRFP 73



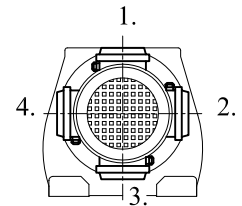
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 112/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 132/B5 | 399 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 26 |
| 160/B5 | 414 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 109 | 45.3 | 12 | 51 |



İRAFPM 72
İRAFPM 73



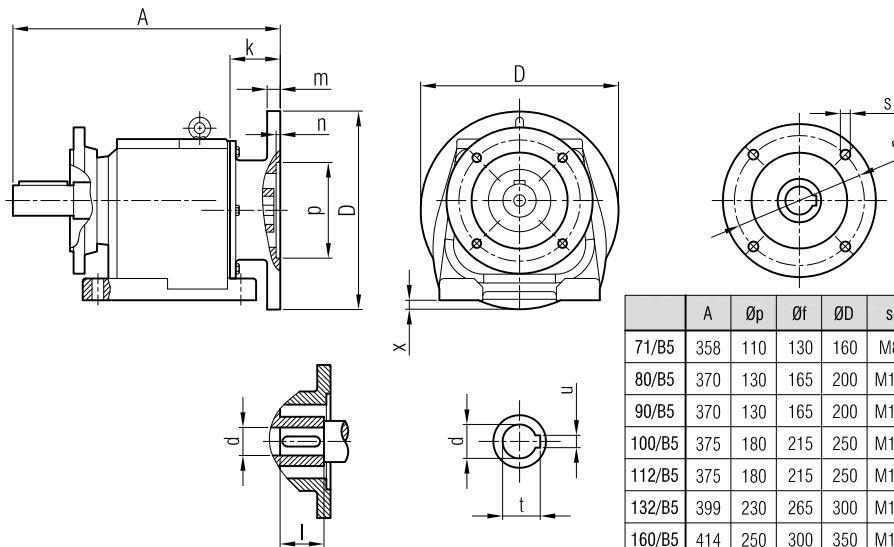
Terminal Box Positions
Posiciones de la caja de terminales



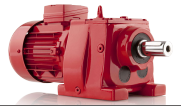
| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----|-------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 581 | 614 | 629 | 654 | 691 | 711 | 779 | 817 | 904 |
| A1 | 632 | 683 | 695 | 720 | 769 | 794 | 879 | 917 | 1019 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |
| x | - | - | - | - | - | - | 5 | 5 | 31 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

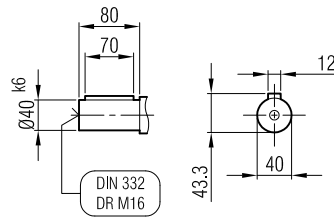
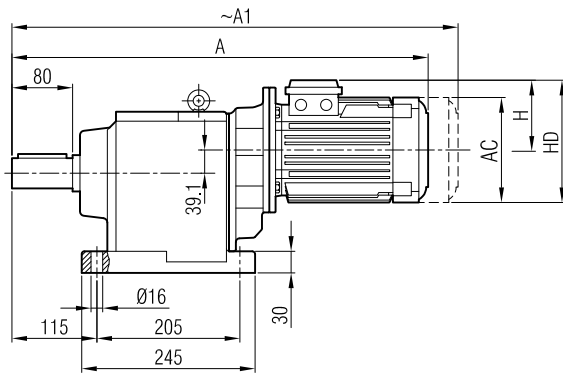
İRAFP 72
İRAFP 73



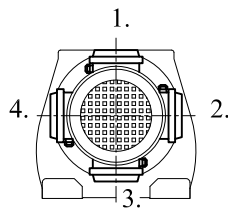
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 | - |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 112/B5 | 375 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 | 1 |
| 132/B5 | 399 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 | 26 |
| 160/B5 | 414 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 109 | 45.3 | 12 | 51 |



İRAM 74



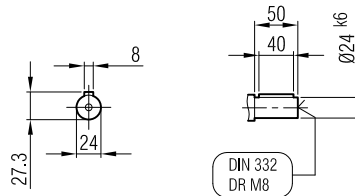
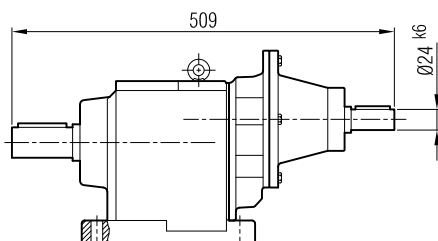
Terminal Box Positions
Posiciones de la caja de terminales

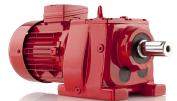


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 577 | 606 | | | | |
| A ₁ | 628 | 675 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

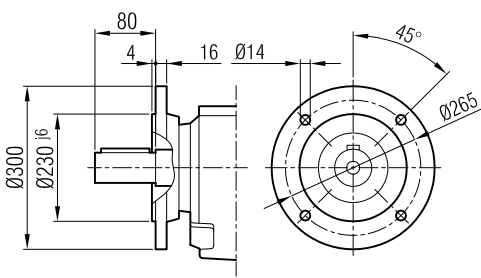
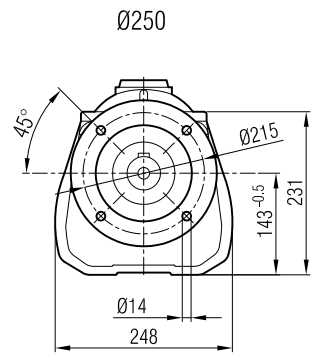
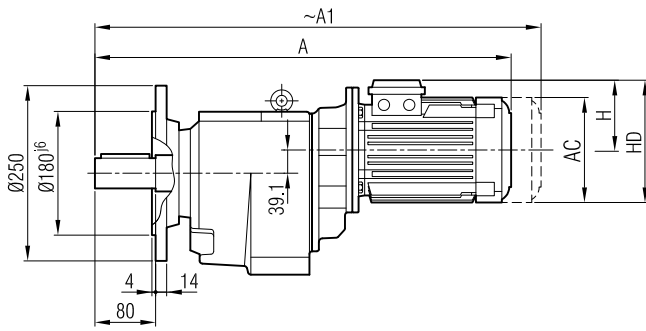
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 74

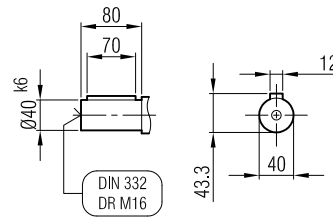




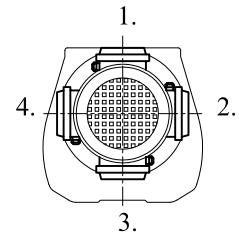
İRFM 74



Ø300
(Opsiyonel / Optional / Opcional)



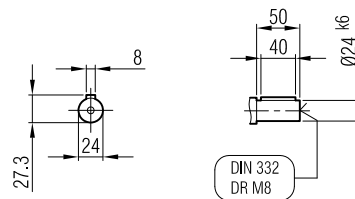
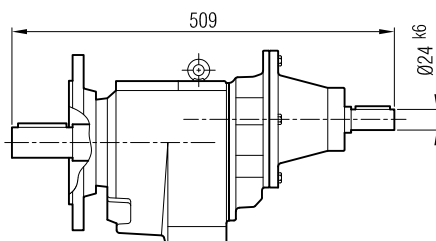
Terminal Box Positions
Posiciones de la caja de terminales

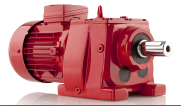


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 577 | 606 | | | | |
| A ₁ | 628 | 675 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

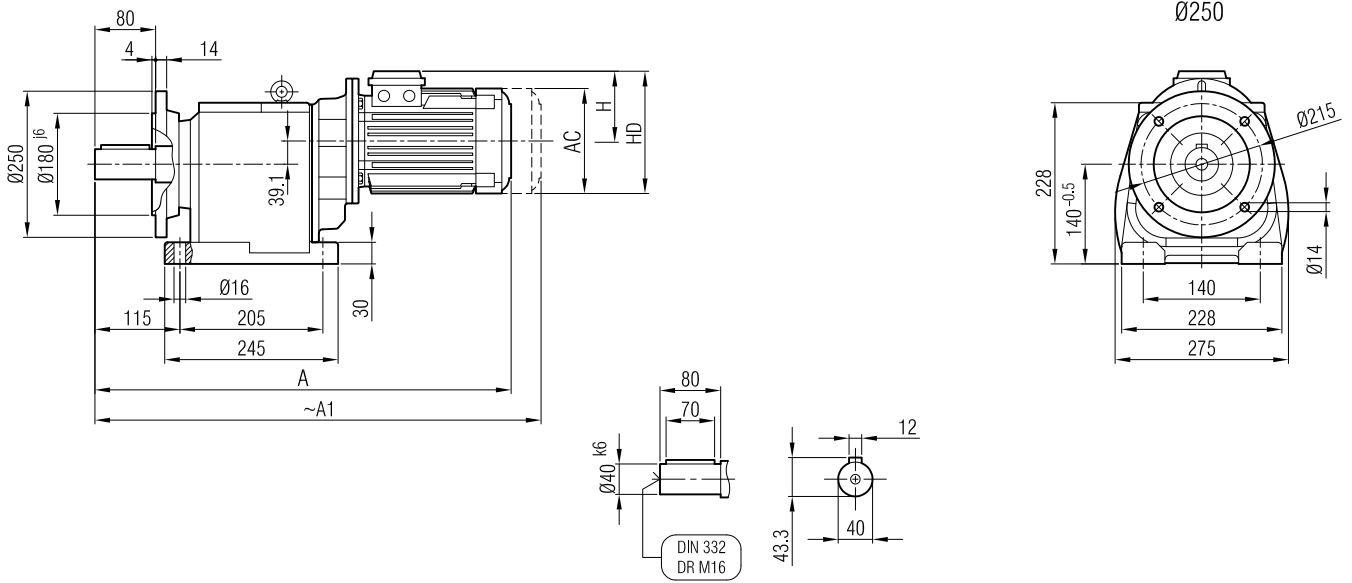
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 74

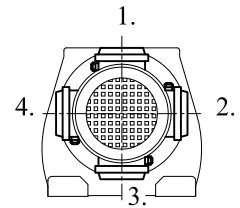




İRAF 74



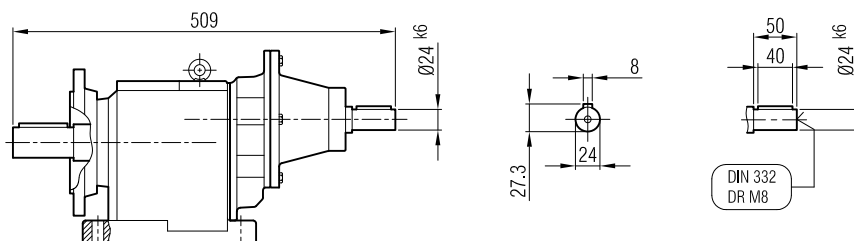
Terminal Box Positions
Posiciones de la caja de terminales

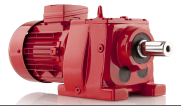


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 577 | 606 | | | | |
| A ₁ | 628 | 675 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

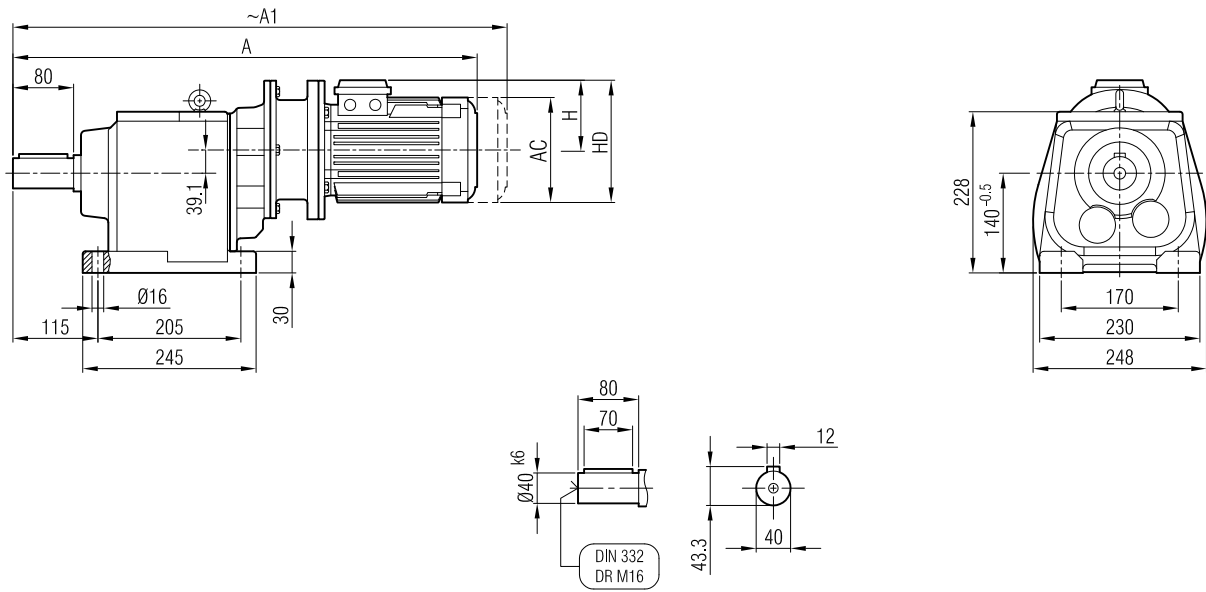
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 74

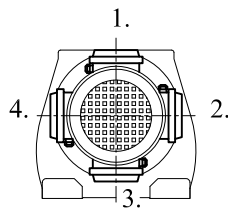




İRAPM 74



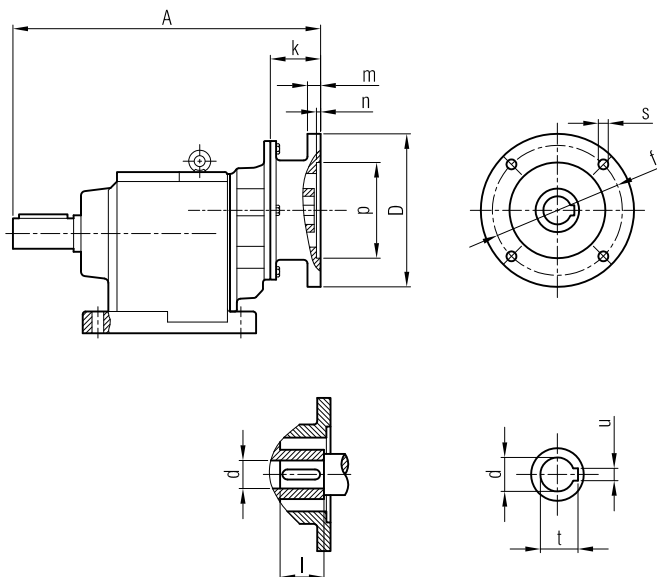
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 598 | 634 | 660 | | |
| A ₁ | 654 | 685 | 729 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

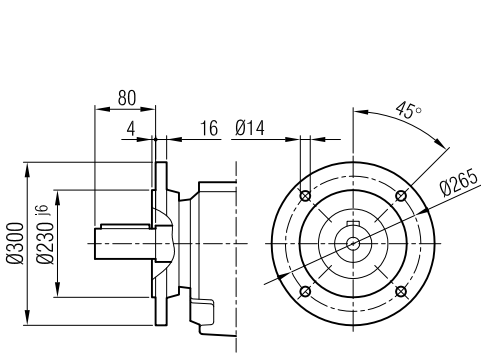
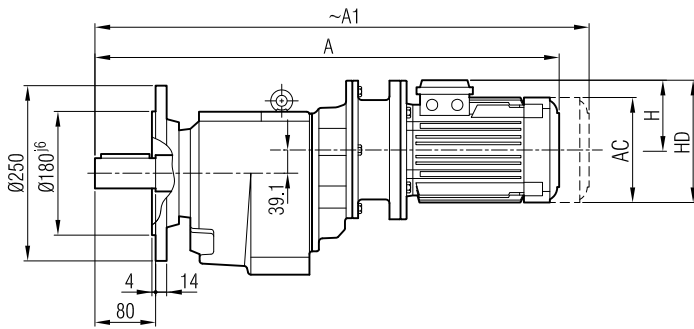
İRAP 74



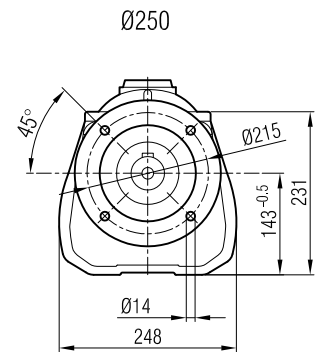
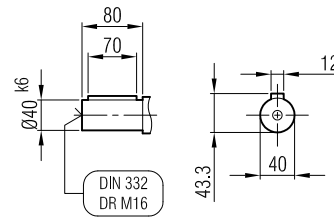
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



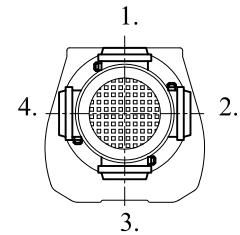
İRFPM 74



Ø300
(Opsiyonel / Optional / Opcional)



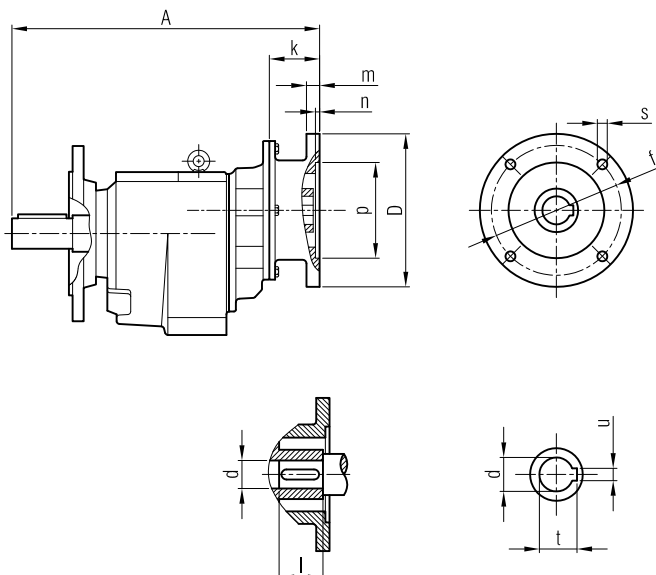
Terminal Box Positions
Posiciones de la caja de terminales



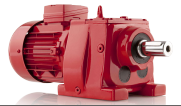
| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 598 | 634 | 660 | | |
| A ₁ | 654 | 685 | 729 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

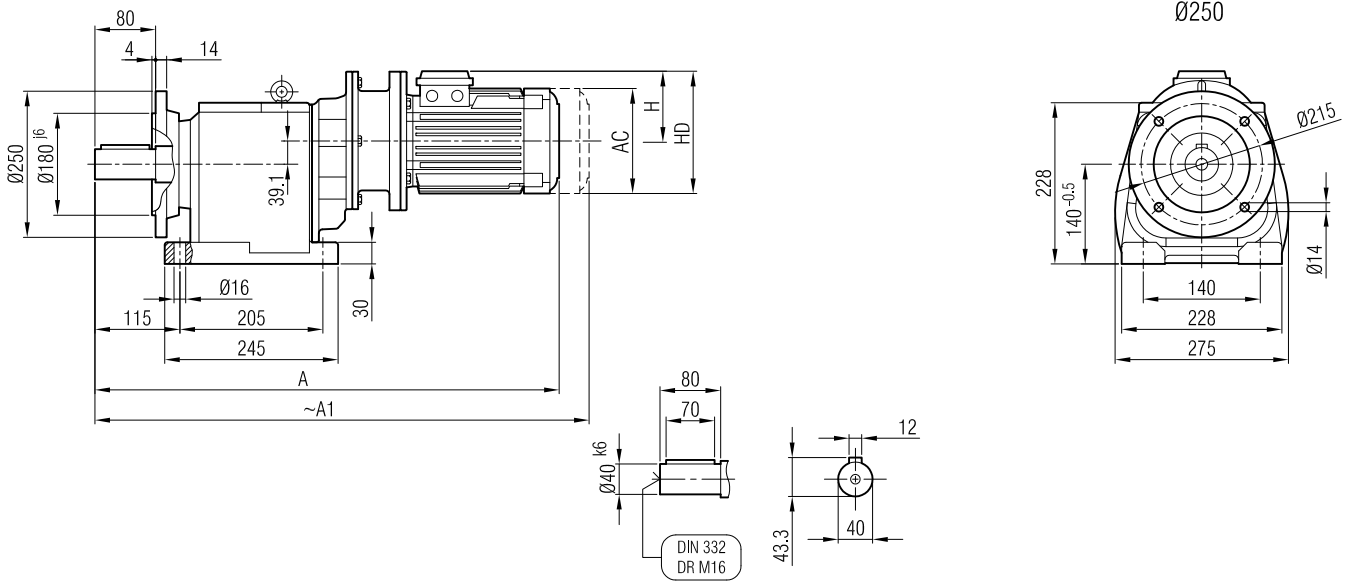
İRFP 74



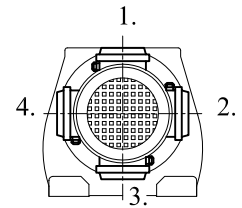
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAFPM 74



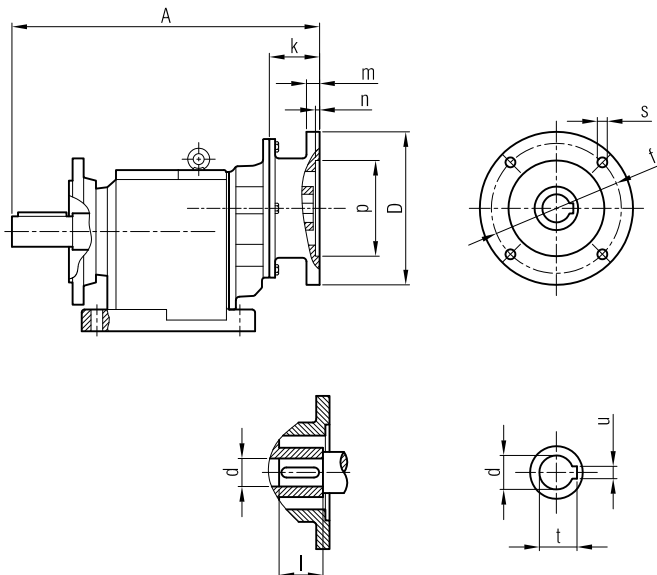
Terminal Box Positions
Posiciones de la caja de terminales



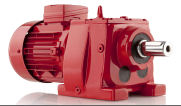
| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 598 | 634 | 660 | | |
| A ₁ | 654 | 685 | 729 | | |
| H | 111 | 118 | 126 | | |
| HD | 182 | 198 | 216 | | |
| AC | 138 | 156 | 176 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

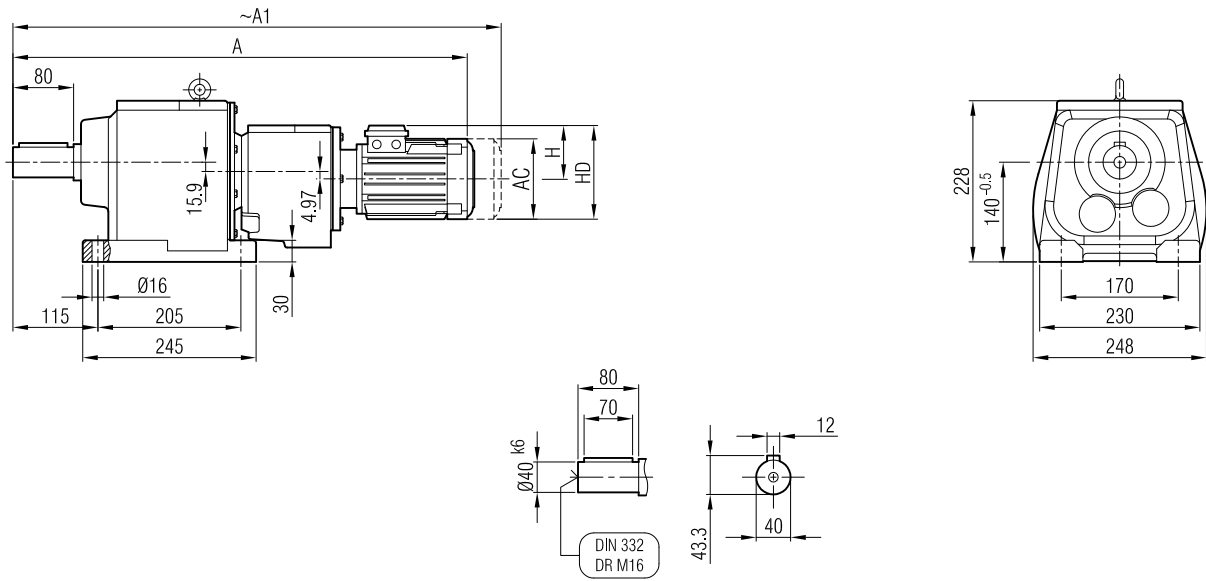
İRAFP 74



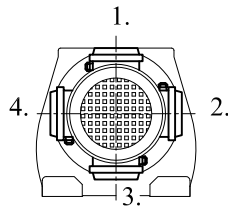
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 286 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 296 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 301 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAM 72 İR 52
İRAM 73 İR 52



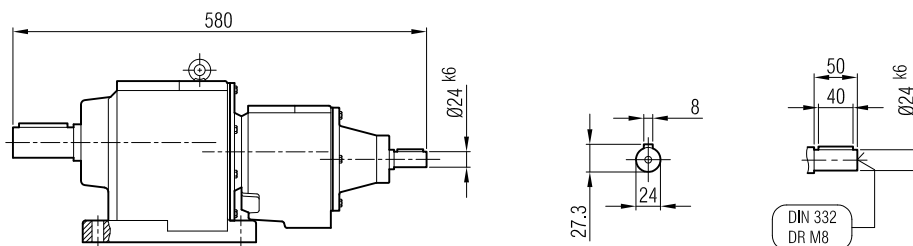
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 669 | 696 | | | | |
| A ₁ | 720 | 765 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

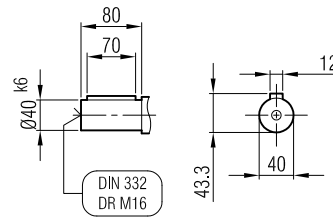
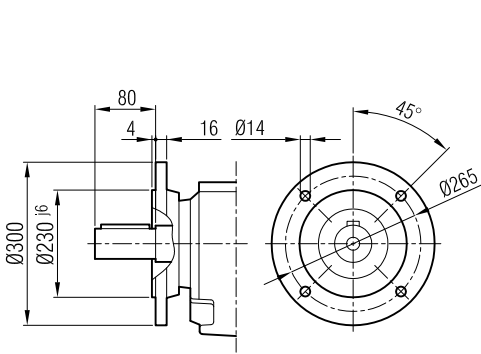
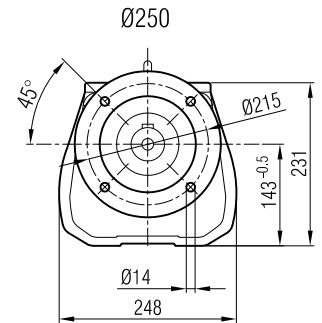
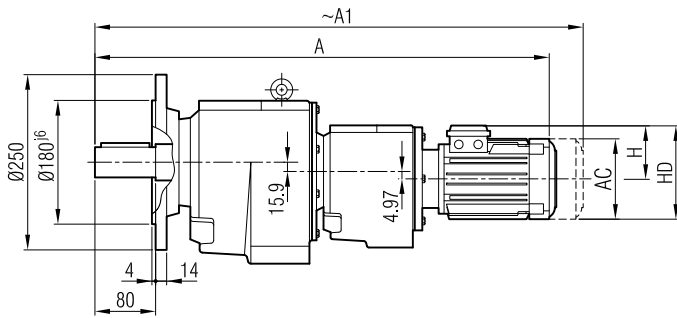
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 72 İR 52 / İRA 72 İR 53
İRA 73 İR 52 / İRA 73 İR 53



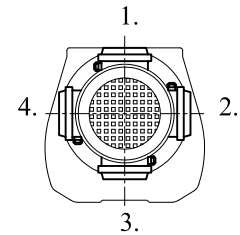


İRFM 72 İR 52
İRFM 73 İR 52



Ø300
(Opsiyonel / Optional / Opcional)

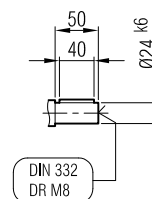
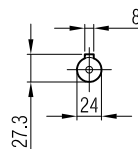
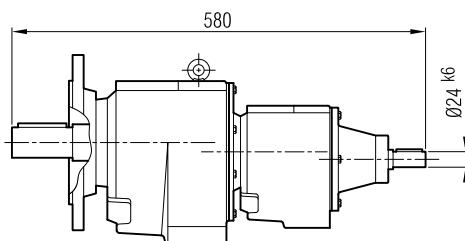
Terminal Box Positions
Posiciones de la caja de terminales

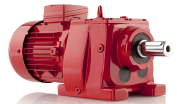


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 669 | 696 | | | | |
| A ₁ | 720 | 765 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

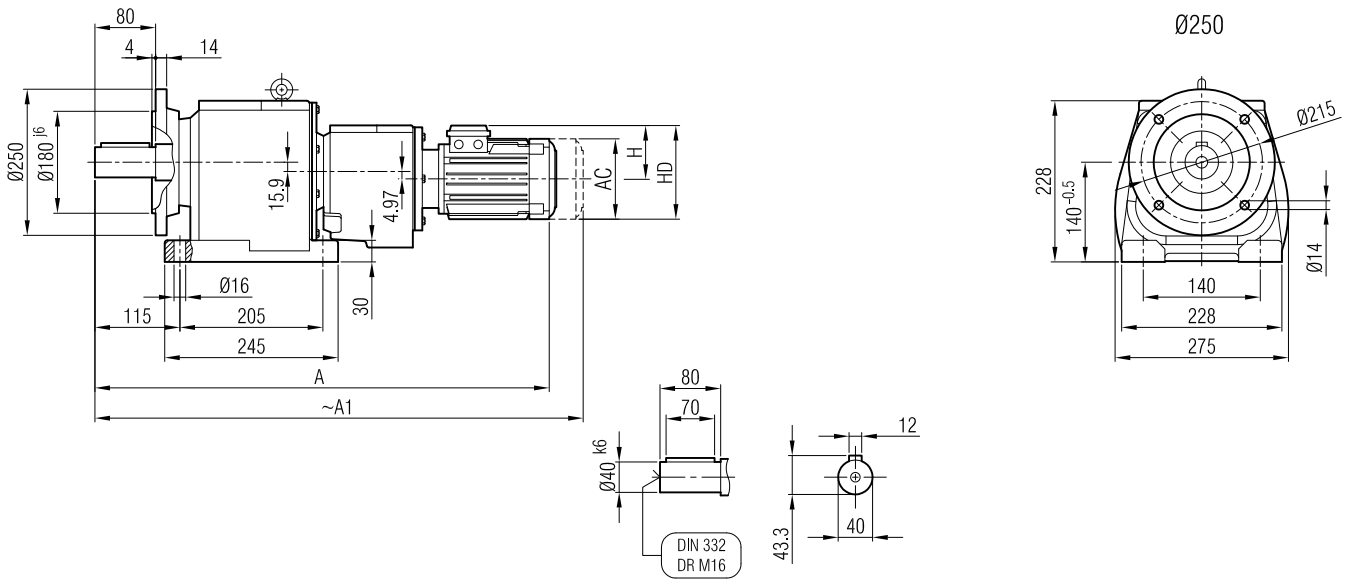
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 72 İR 52 / İRF 72 İR 53
İRF 73 İR 52 / İRF 73 İR 53

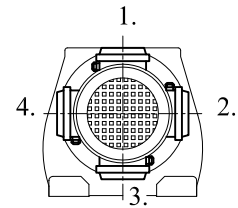




İRAFM 72 İR 52
İRAFM 73 İR 52



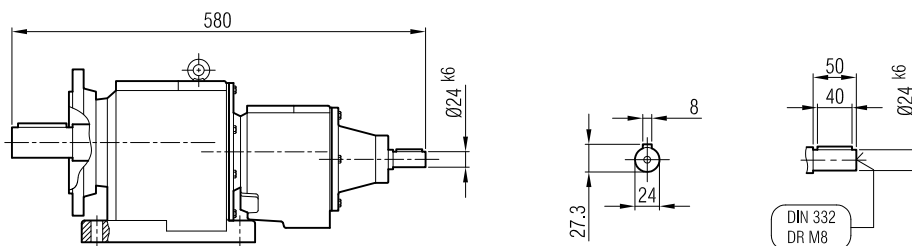
Terminal Box Positions
Posiciones de la caja de terminales

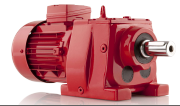


| | 71 | 80 | | | | |
|----------------|-----|-----|--|--|--|--|
| A | 669 | 696 | | | | |
| A ₁ | 720 | 765 | | | | |
| H | 111 | 118 | | | | |
| HD | 182 | 198 | | | | |
| AC | 138 | 156 | | | | |

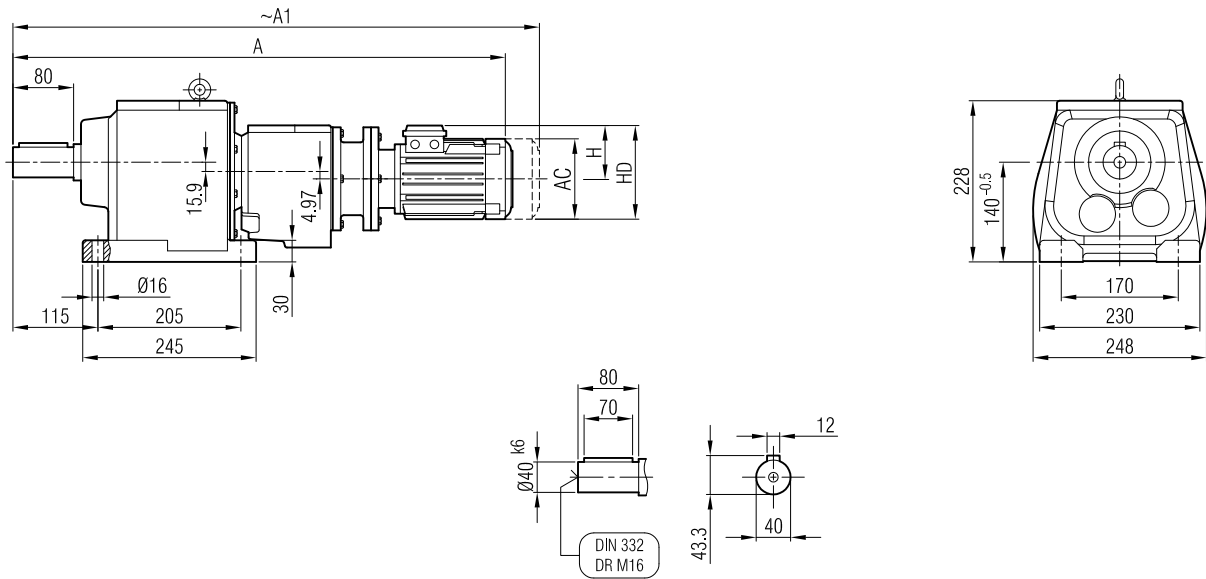
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 72 İR 52 / İRAF 72 İR 53
İRAF 73 İR 52 / İRAF 73 İR 53

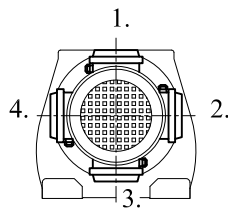




İRAPM 72 İR 52
İRAPM 73 İR 52



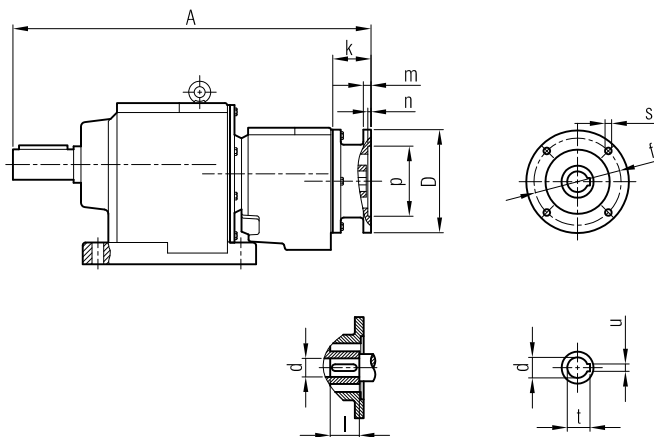
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 683 | 718 | 741 | | |
| A ₁ | 739 | 769 | 810 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

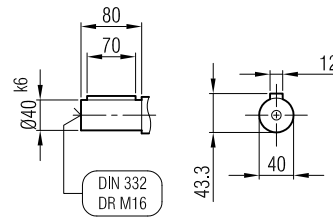
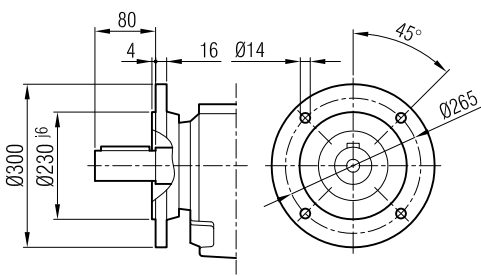
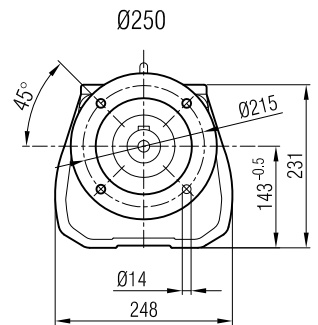
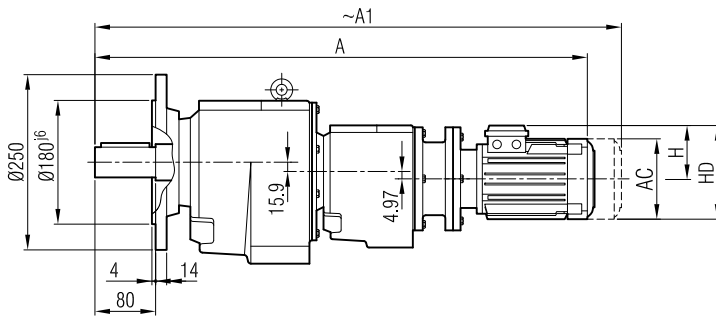
İRAP 72 İR 52 / İRAP 72 İR 53
İRAP 73 İR 52 / İRAP 73 İR 53



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 487 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 495 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 497 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |

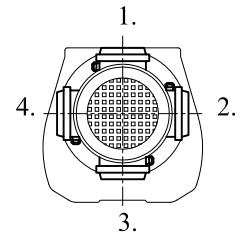


İRFPM 72 İR 52
İRFPM 73 İR 52



Ø300
(Opsiyonel / Optional / Opcional)

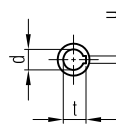
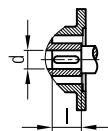
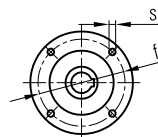
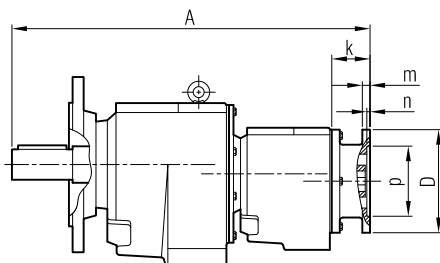
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 683 | 718 | 741 | | |
| A ₁ | 739 | 769 | 810 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

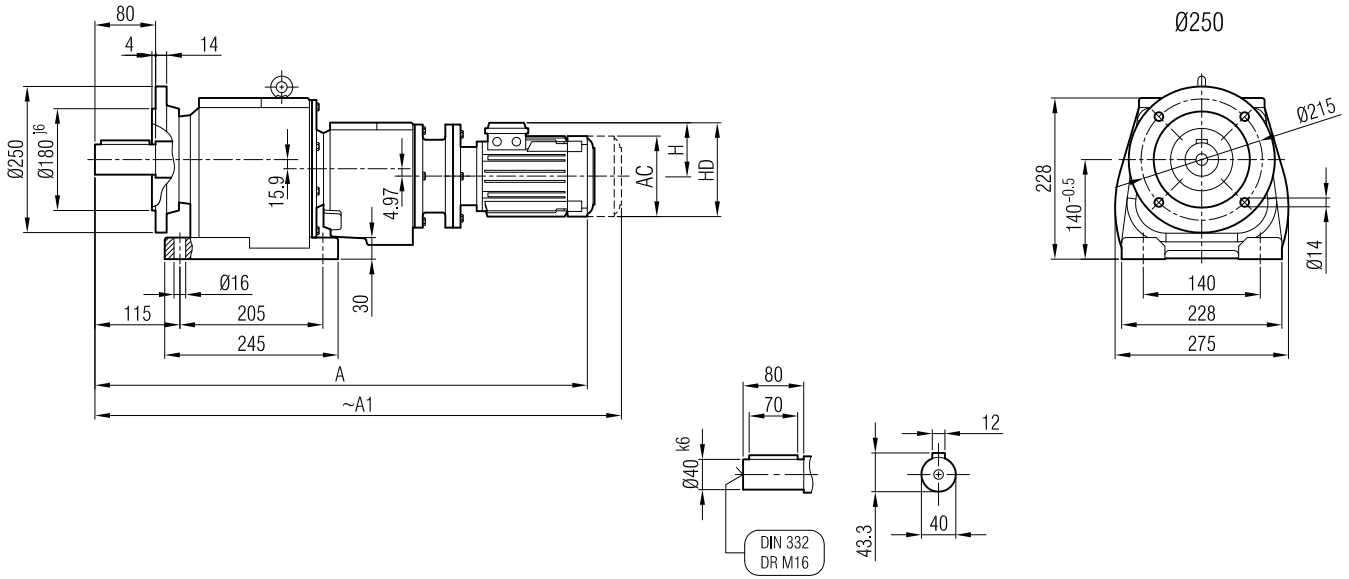
İRFP 72 İR 52 / İRFP 72 İR 53
İRFP 73 İR 52 / İRFP 73 İR 53



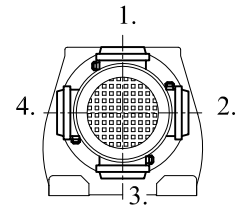
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 487 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 495 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 497 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAFPM 72 İR 52
İRAFPM 73 İR 52



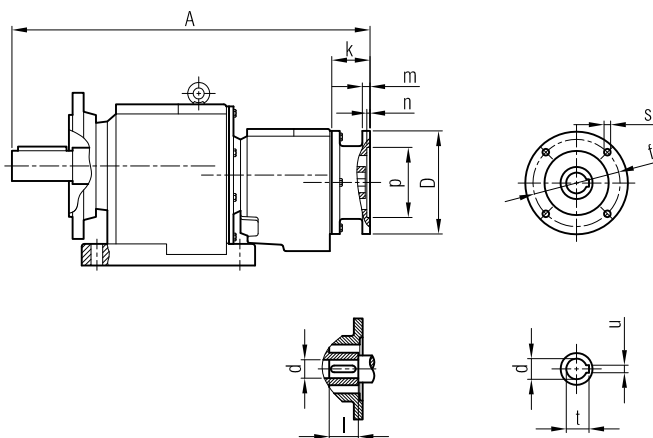
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | | |
|----------------|-------|-------|-------|--|--|
| A | 683 | 718 | 741 | | |
| A ₁ | 739 | 769 | 810 | | |
| H | 97 | 111 | 118 | | |
| HD | 160 | 182 | 198 | | |
| AC | 121 | 138 | 156 | | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

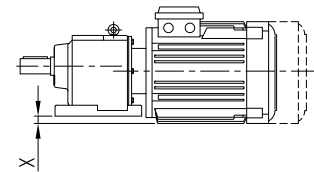
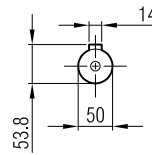
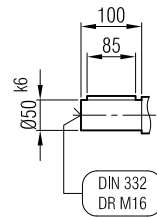
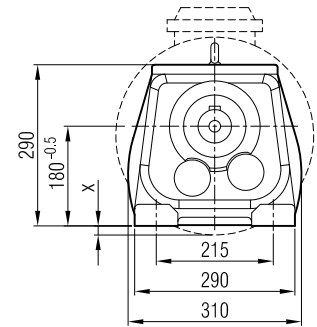
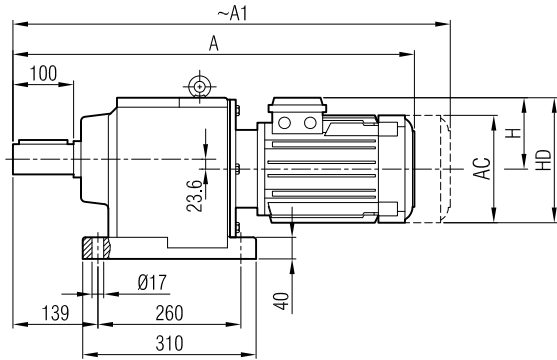
İRAFP 72 İR 52 / İRAFP 72 İR 53
İRAFP 73 İR 52 / İRAFP 73 İR 53



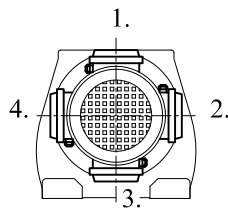
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 487 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 495 | 110 | 130 | 160 | M8 | 44 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 497 | 130 | 165 | 200 | M10 | 46 | 12 | 5 | 19 | 40 | 21.8 | 6 |



İRAM 82
İRAM 83



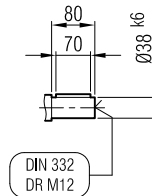
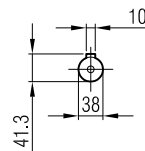
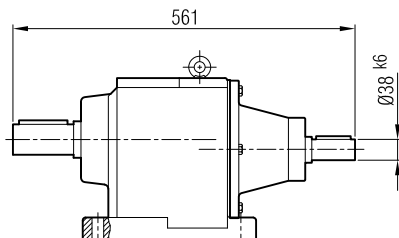
Terminal Box Positions
Posiciones de la caja de terminales



| | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|-----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|
| A | 604 | 632 | 657 | 697 | 719 | 781 | 819 | 921 | 965 | 978 | 1016 |
| A ₁ | 673 | 698 | 723 | 775 | 802 | 881 | 919 | 1036 | 1080 | 1098 | 1136 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

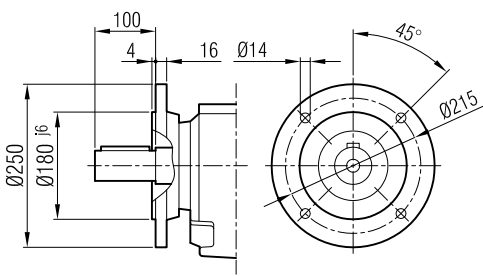
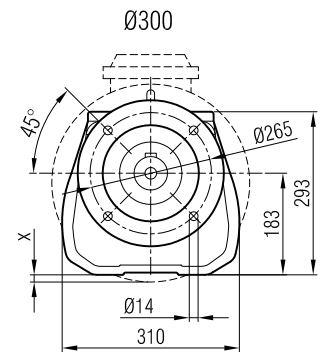
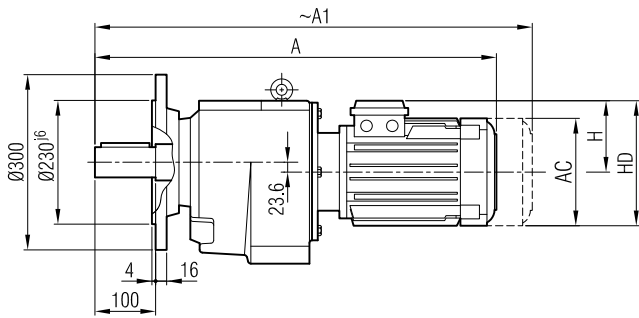
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 82
İRA 83

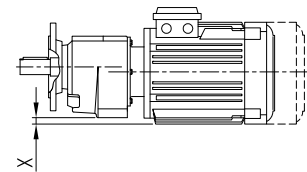
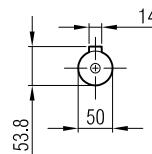
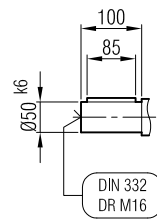




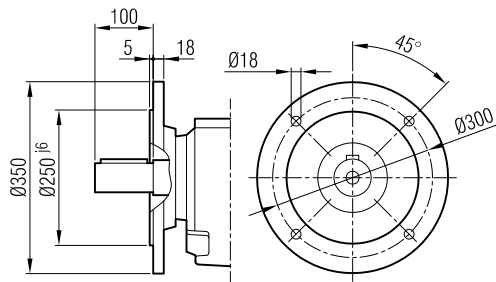
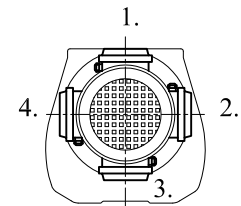
İRFM 82
İRFM 83



Ø250
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

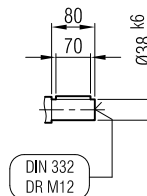
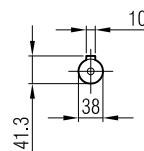
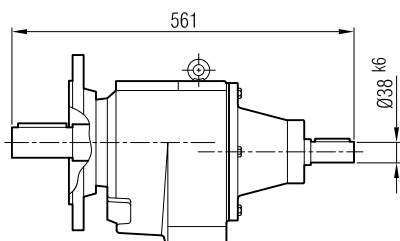


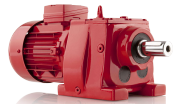
Ø350
(Opsiyonel / Optional / Opcional)

| | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|-----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|
| A | 604 | 632 | 657 | 697 | 719 | 781 | 819 | 921 | 965 | 978 | 1016 |
| A ₁ | 673 | 698 | 723 | 775 | 802 | 881 | 919 | 1036 | 1080 | 1098 | 1136 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

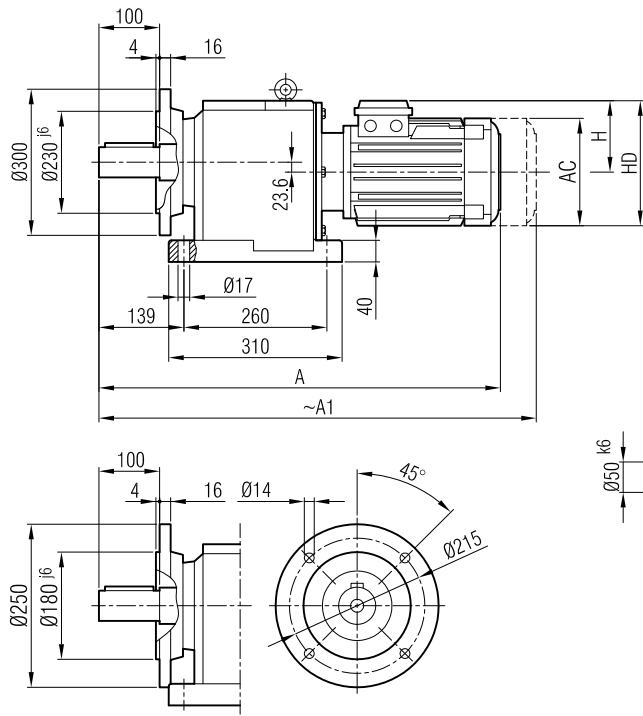
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 82
İRF 83

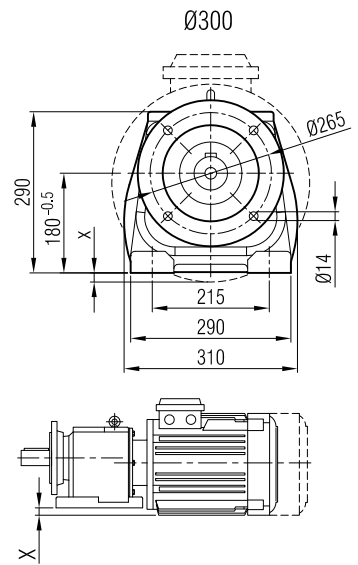
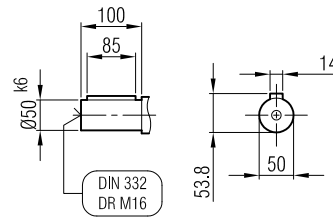




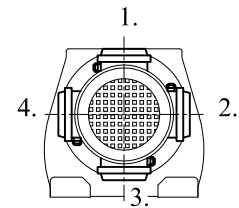
İRAF 82
İRAF 83



Ø250
(Opsiyonel / Optional / Opcional)



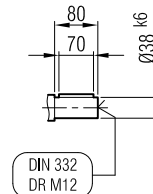
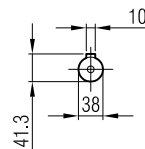
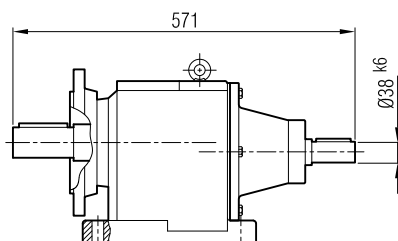
Terminal Box Positions
Posiciones de la caja de terminales



| | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|-----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|
| A | 604 | 632 | 657 | 697 | 719 | 781 | 819 | 921 | 965 | 978 | 1016 |
| A ₁ | 673 | 698 | 723 | 775 | 802 | 881 | 919 | 1036 | 1080 | 1098 | 1136 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

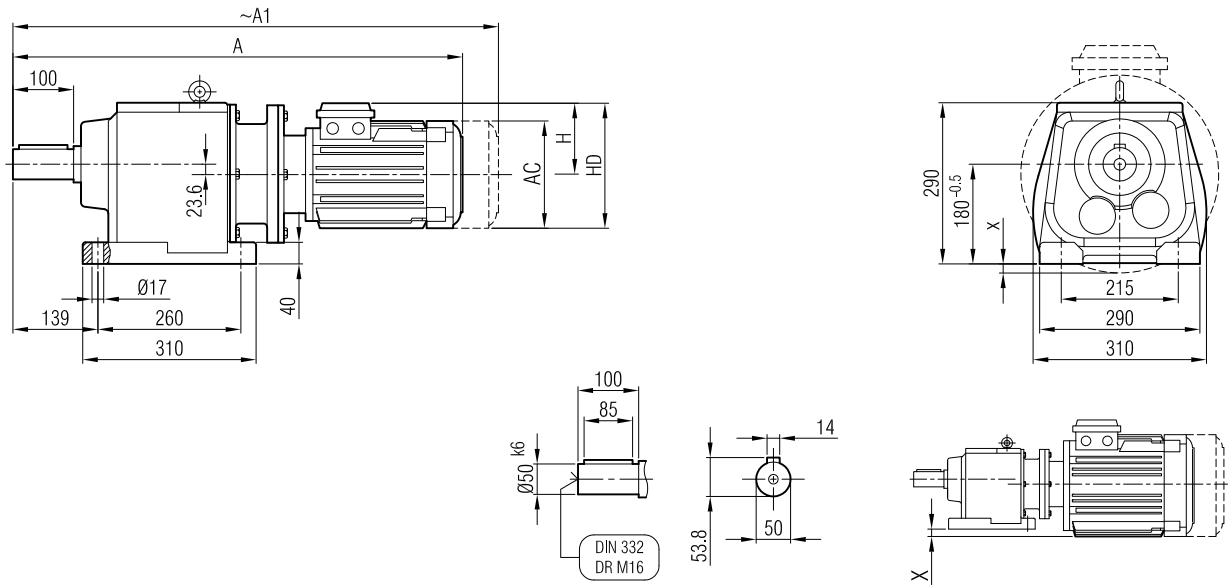
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 82
İRAF 83

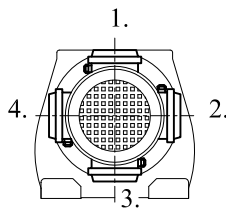




İRAPM 82
İRAPM 83



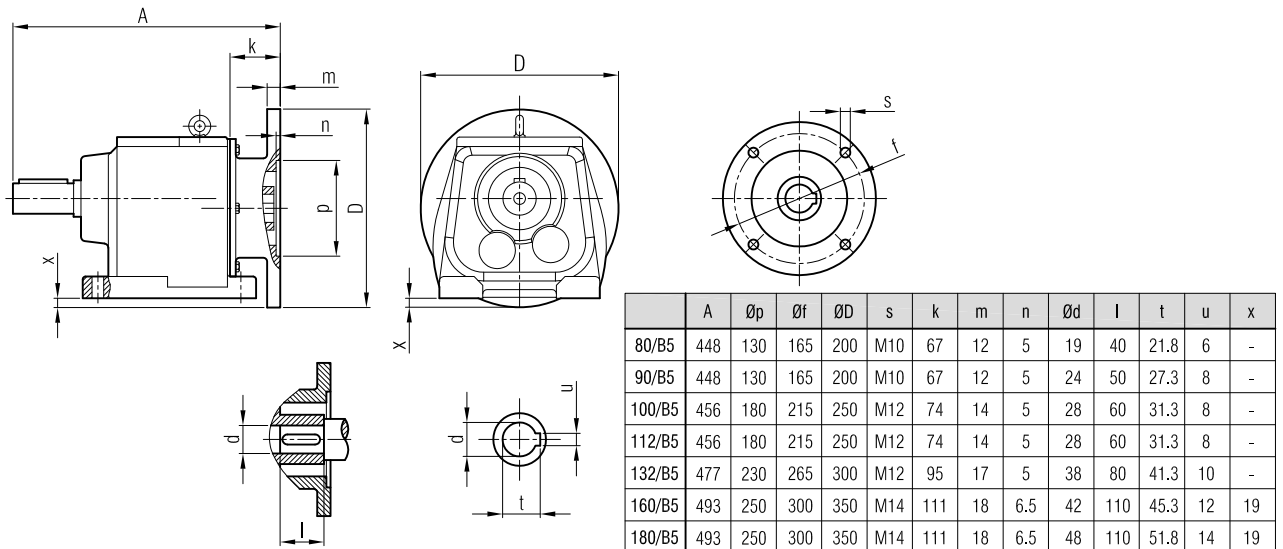
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 692 | 707 | 732 | 772 | 792 | 857 | 895 | 983 | 1027 | 1040 | 1078 |
| A ₁ | 761 | 773 | 798 | 850 | 875 | 957 | 995 | 1098 | 1142 | 1160 | 1198 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

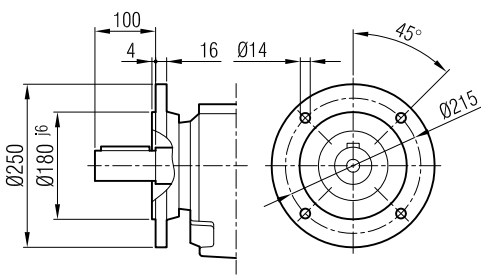
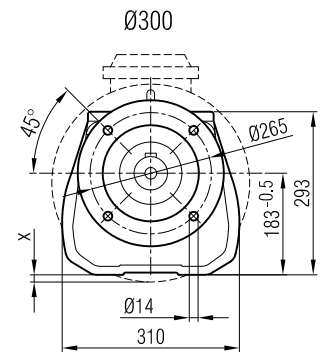
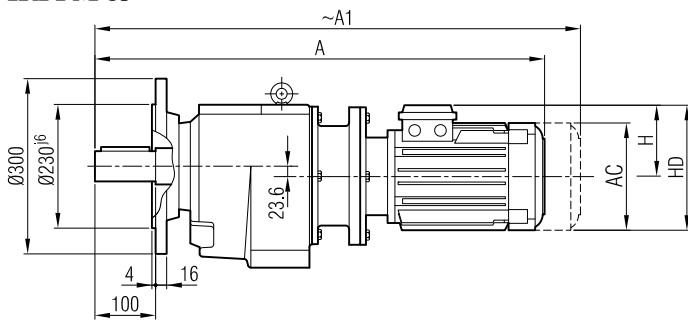
İRAP 82
İRAP 83



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 477 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | 19 |
| 180/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | 19 |

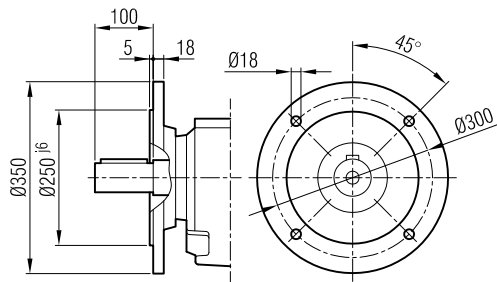


İRFPM 82
İRFPM 83



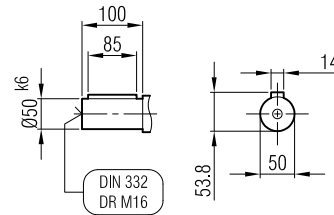
Ø250

(Opsiyonel / Optional / Opcional)

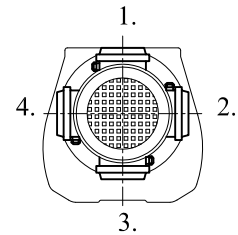


Ø350

(Opsiyonel / Optional / Opcional)



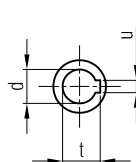
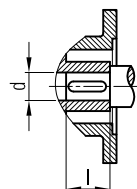
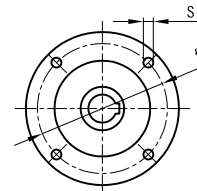
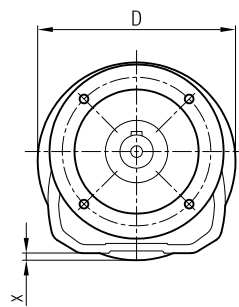
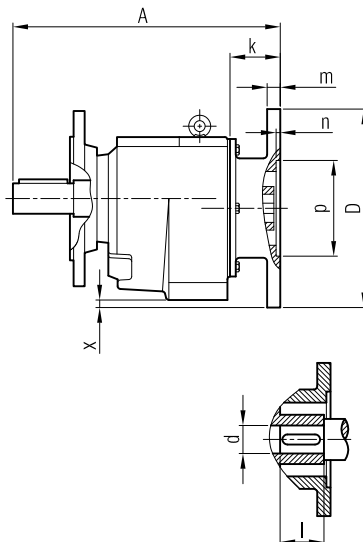
Terminal Box Positions
Posiciones de la caja de terminales



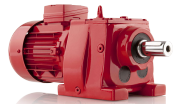
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 692 | 707 | 732 | 772 | 792 | 857 | 895 | 983 | 1027 | 1040 | 1078 |
| A ₁ | 761 | 773 | 798 | 850 | 875 | 957 | 995 | 1098 | 1142 | 1160 | 1198 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

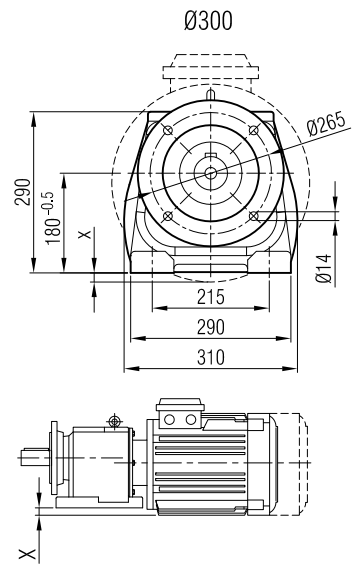
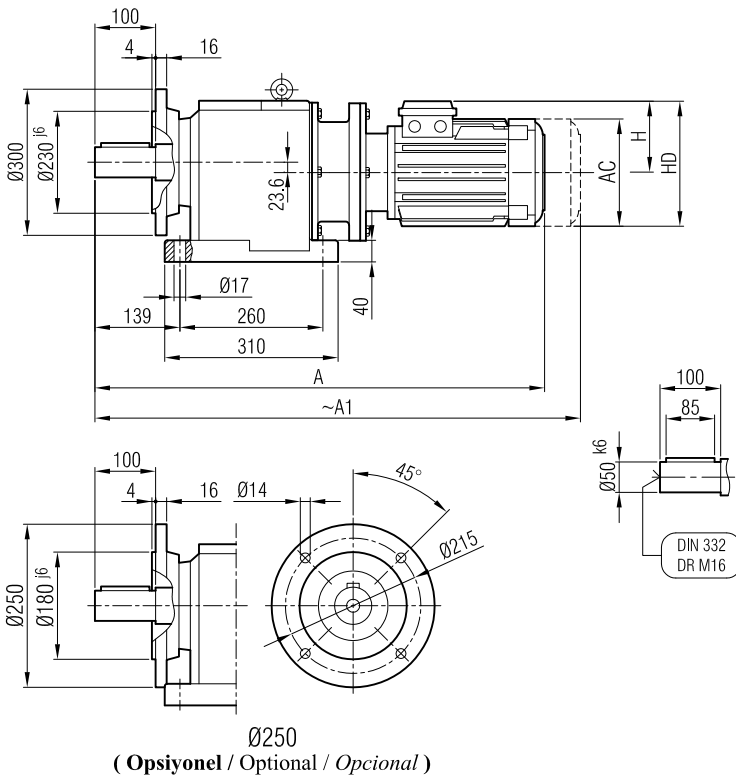
İRFP 82
İRFP 83



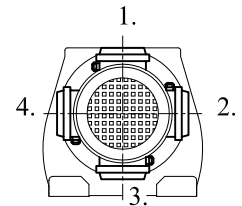
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 477 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | 19 |
| 180/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | 19 |



İRAFPM 82
İRAFPM 83



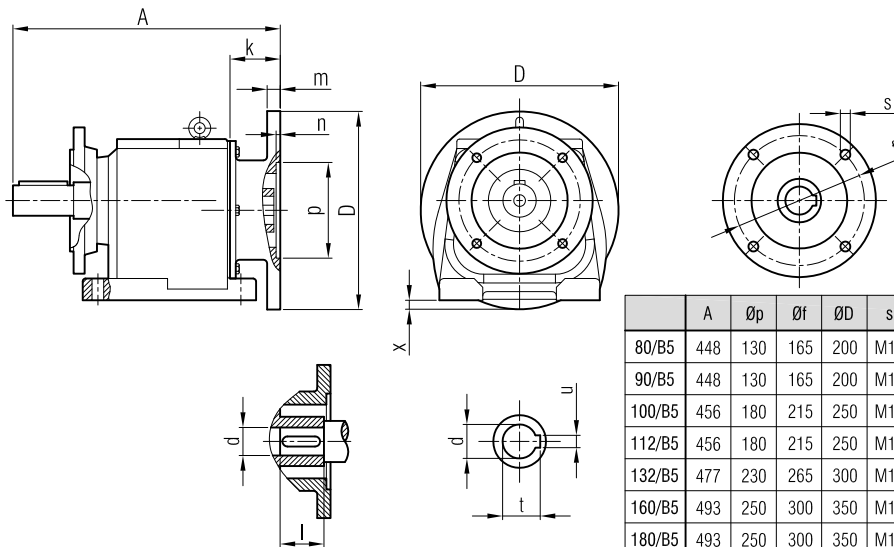
Terminal Box Positions
Posiciones de la caja de terminales



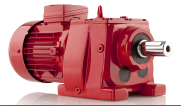
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 692 | 707 | 732 | 772 | 792 | 857 | 895 | 983 | 1027 | 1040 | 1078 |
| A1 | 761 | 773 | 798 | 850 | 875 | 957 | 995 | 1098 | 1142 | 1160 | 1198 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | 18 | 18 |

İRAFP 82
İRAFP 83

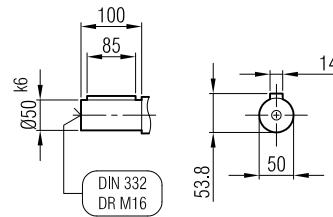
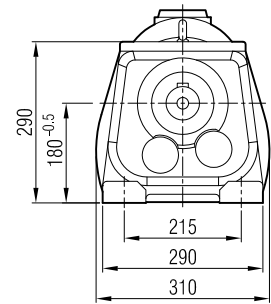
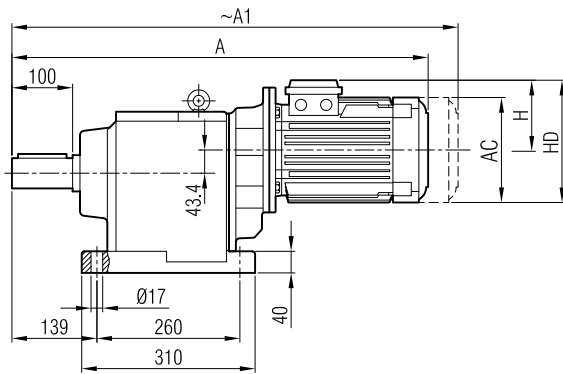
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno



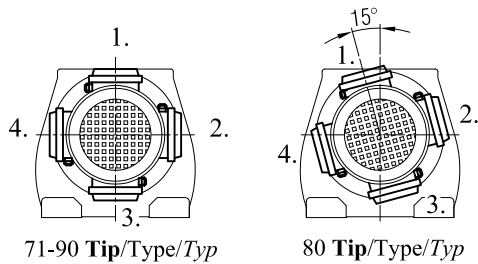
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|----|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 477 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | 19 |
| 180/B5 | 493 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | 19 |



İRAM 84



Terminal Box Positions
Posiciones de la caja de terminales



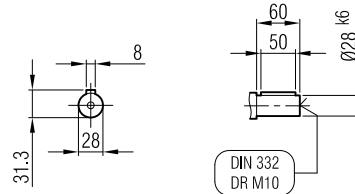
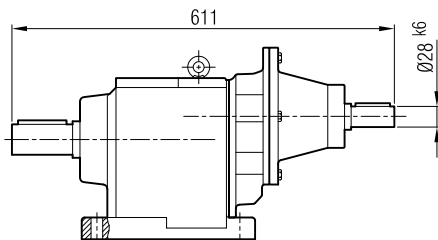
71-90 **Tip/Type/Typ**

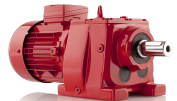
80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | | | |
|----------------|-----|-----|------|------|--|--|--|
| A | 648 | 678 | 709 | 734 | | | |
| A ₁ | 699 | 747 | 775 | 800 | | | |
| H | 111 | 118 | 126 | 126 | | | |
| HD | 182 | 198 | 216 | 216 | | | |
| AC | 138 | 156 | 176 | 176 | | | |

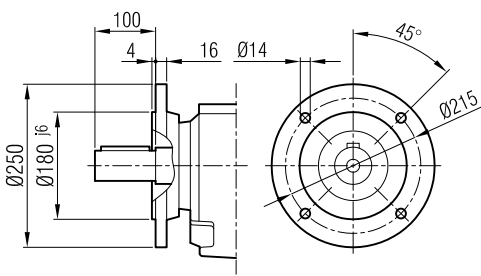
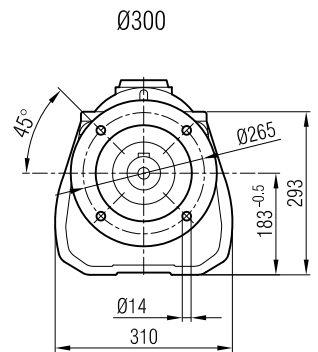
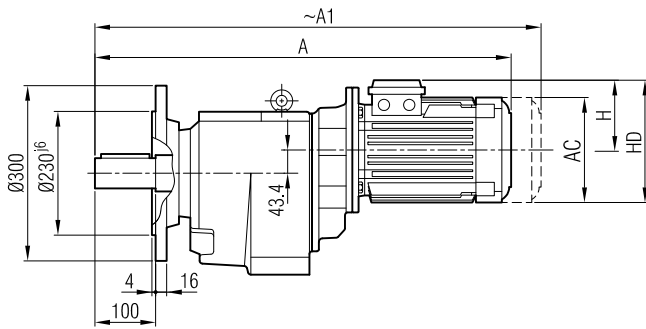
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 84

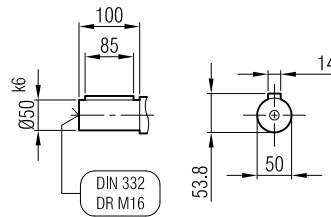




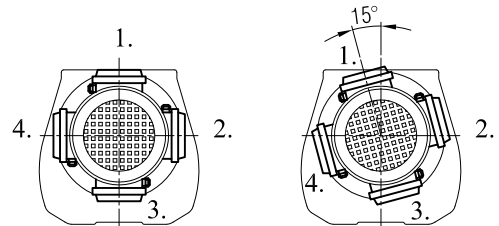
İRFM 84



Ø250
(Opsiyonel / Optional / Opcional)

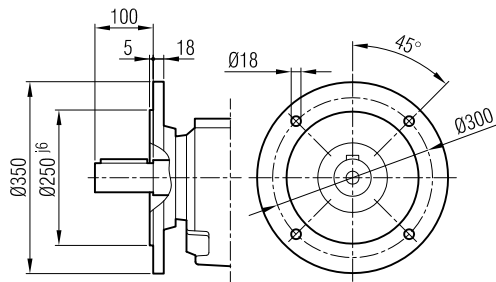


Terminal Box Positions
Posiciones de la caja de terminales



71-90 Tip/Type/Typ

80 Tip/Type/Typ

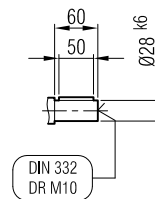
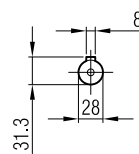
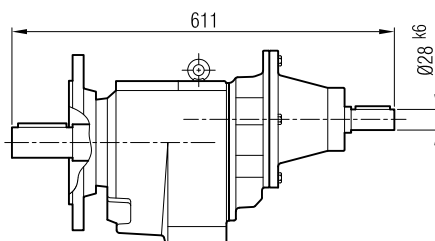


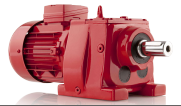
Ø350
(Opsiyonel / Optional / Opcional)

| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 648 | 678 | 709 | 734 | | |
| A ₁ | 699 | 747 | 775 | 800 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

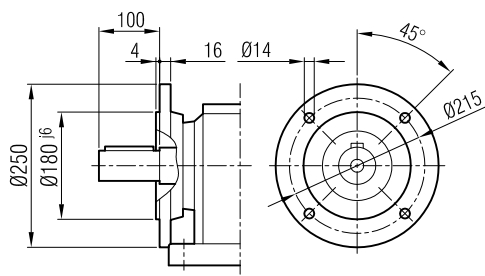
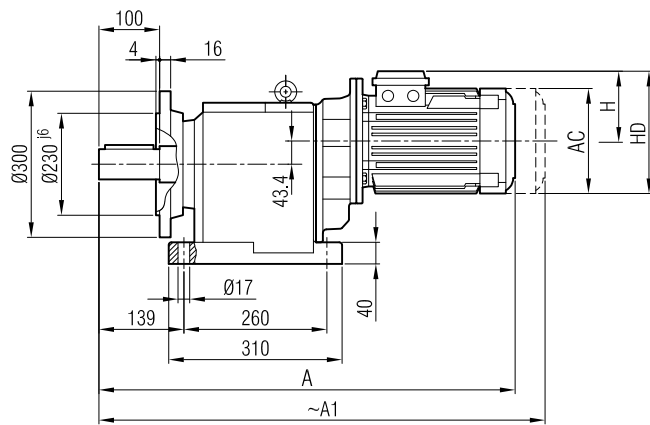
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 84

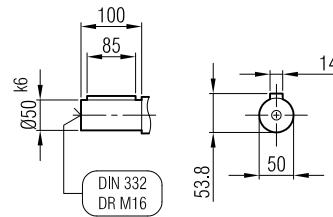




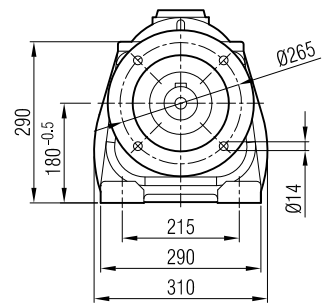
İRAF 84



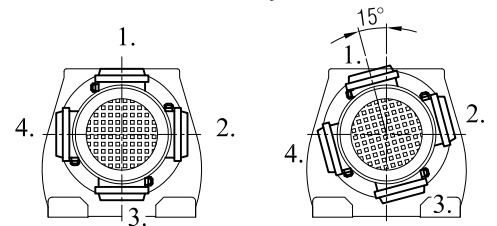
Ø250
(Opsiyonel / Optional / Opcional)



Ø300



Terminal Box Positions
Posiciones de la caja de terminales



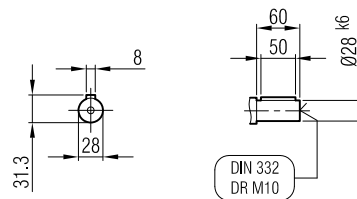
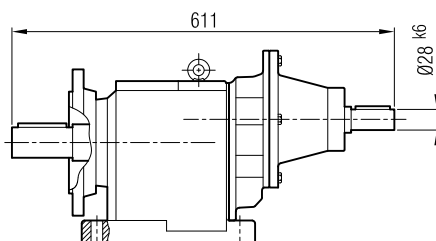
71-90 **Tip/Type/Typ**

80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 648 | 678 | 709 | 734 | | |
| A ₁ | 699 | 747 | 775 | 800 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

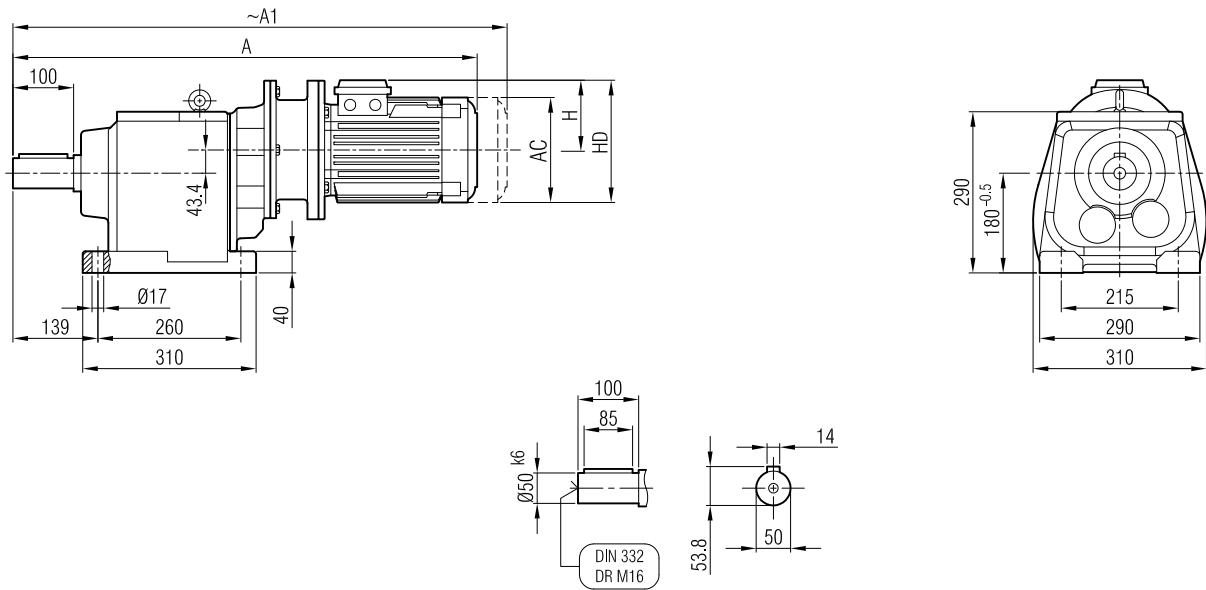
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 84

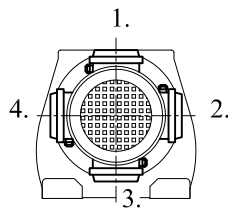




İRAPM 84



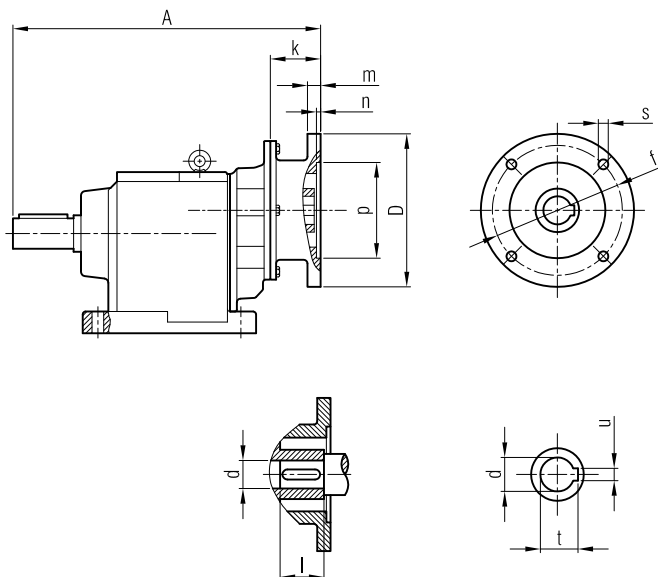
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|---------|---------|
| A | 725 | 758 | 773 | 798 |
| A ₁ | 776 | 827 | 839 | 864 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

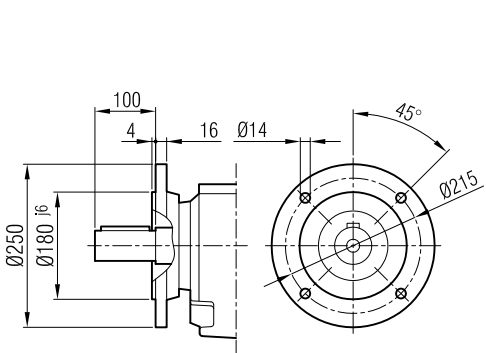
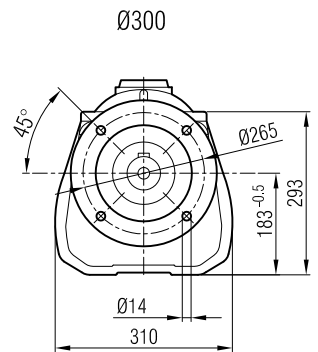
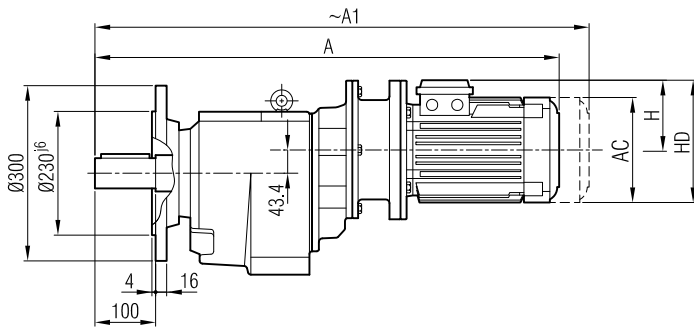
İRAP 84



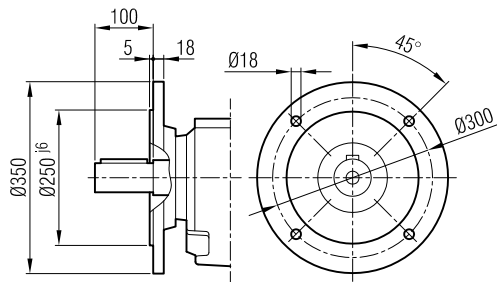
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |



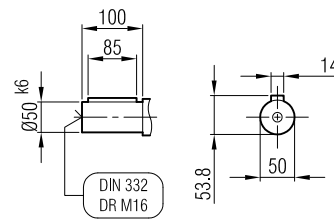
İRFPM 84



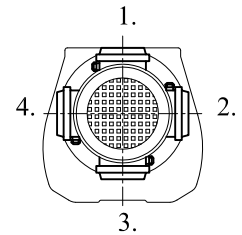
Ø250
(Opsiyonel / Optional / Opcional)



Ø350
(Opsiyonel / Optional / Opcional)



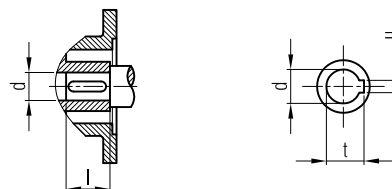
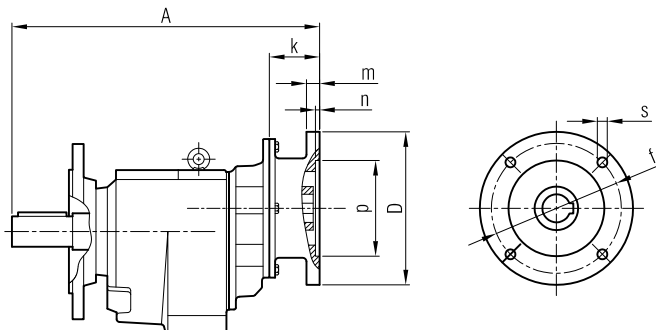
Terminal Box Positions
Posiciones de la caja de terminales



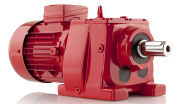
| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|---------|---------|
| A | 725 | 758 | 773 | 798 |
| A ₁ | 776 | 827 | 839 | 864 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

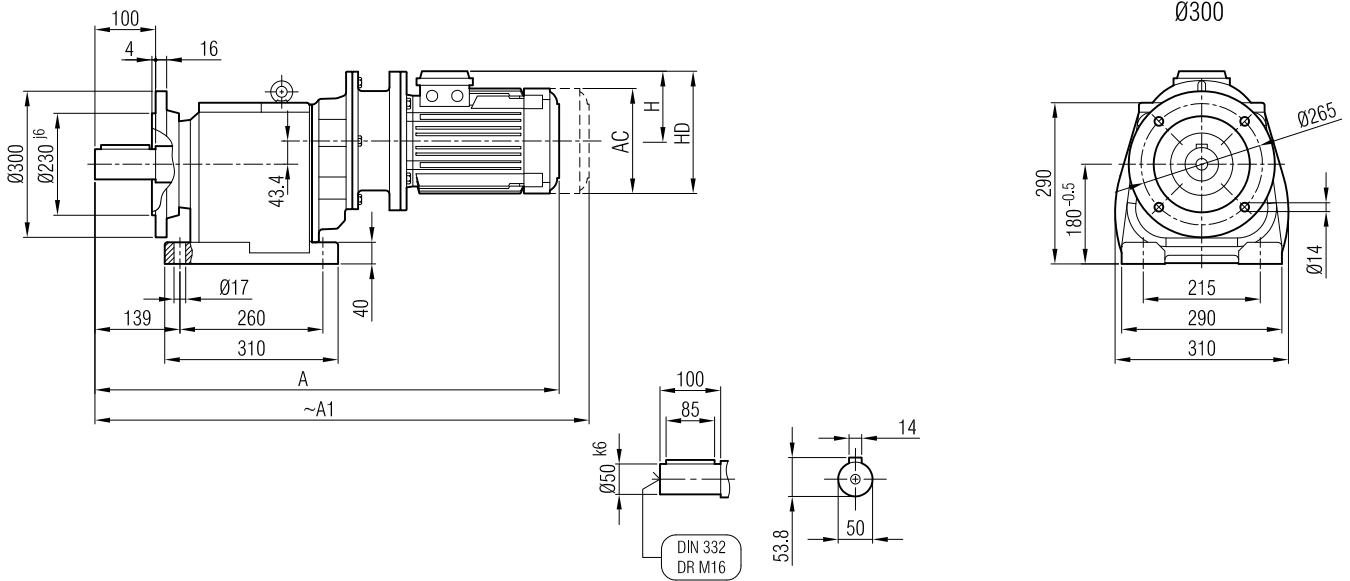
İRFP 84



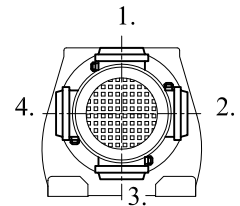
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAFPM 84



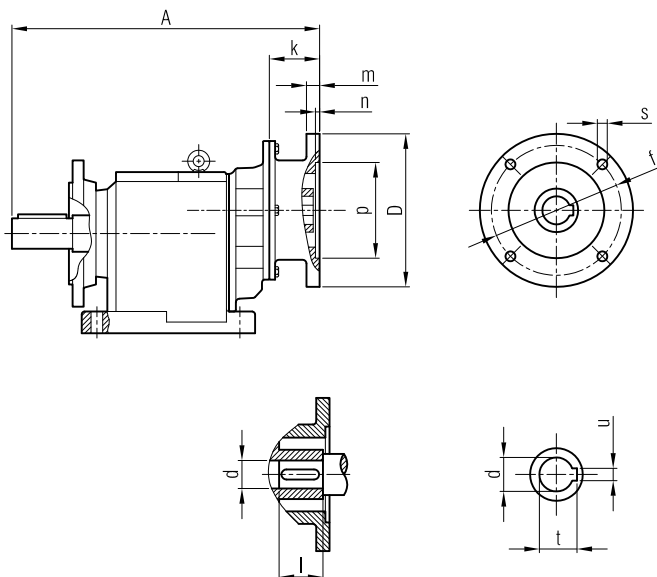
Terminal Box Positions
Posiciones de la caja de terminales



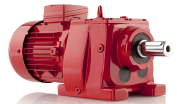
| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|---------|---------|
| A | 725 | 758 | 773 | 798 |
| A ₁ | 776 | 827 | 839 | 864 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

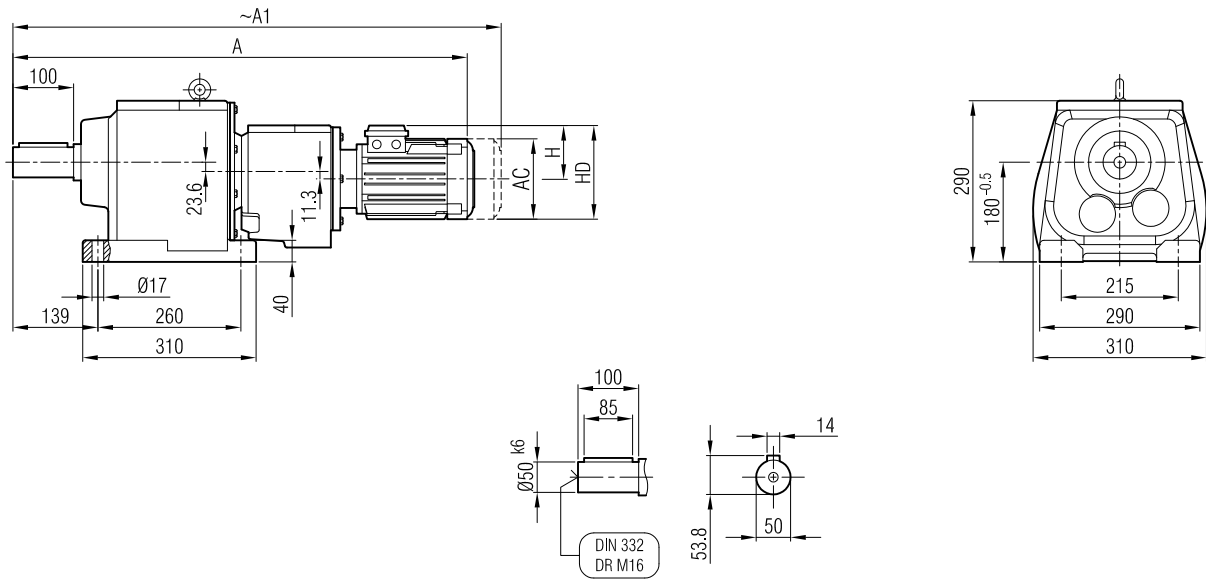
İRAFP 84



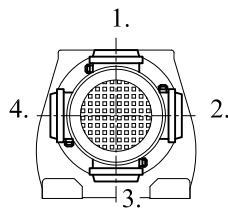
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 358 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 370 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAM 82 İR 63
İRAM 83 İR 63



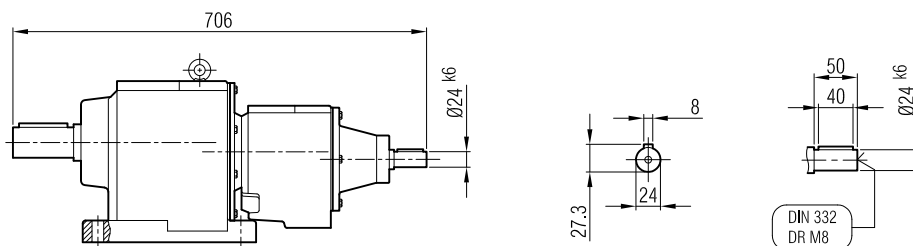
Terminal Box Positions
Posiciones de la caja de terminales

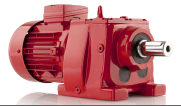


| | 71 | 80 | 90 S | | | | |
|----------------|-----|-----|------|--|--|--|--|
| A | 773 | 803 | 870 | | | | |
| A ₁ | 824 | 872 | 936 | | | | |
| H | 111 | 118 | 126 | | | | |
| HD | 182 | 198 | 216 | | | | |
| AC | 138 | 156 | 176 | | | | |

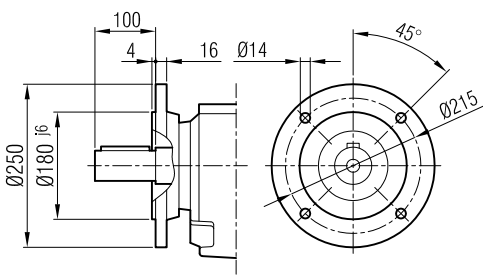
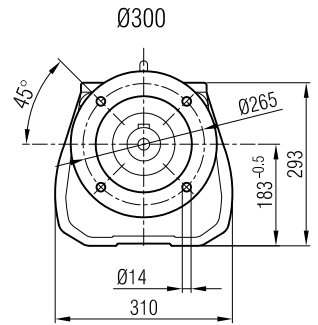
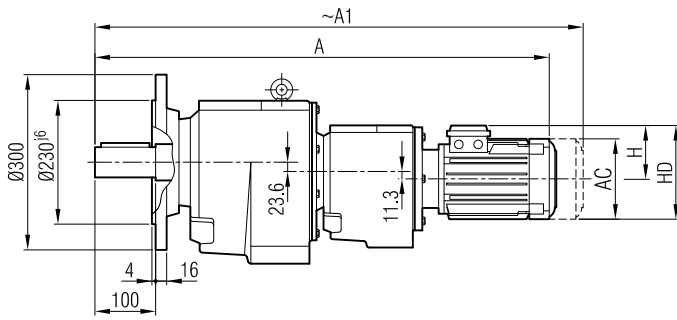
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 82 İR 62 / İRA 82 İR 63
İRA 83 İR 62 / İRA 83 İR 63

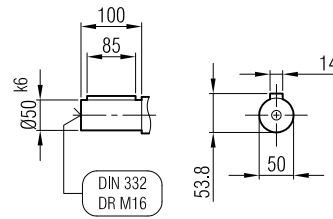




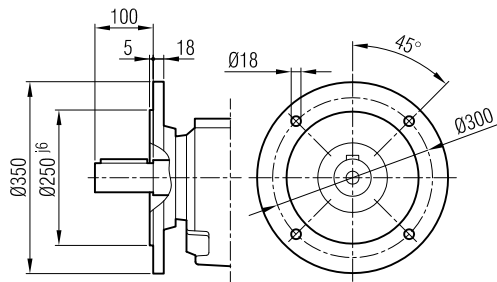
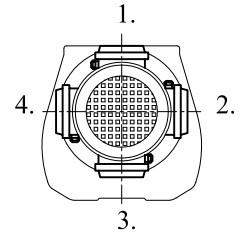
İRFM 82 İR 63
İRFM 83 İR 63



Ø250
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

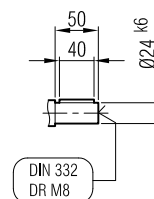
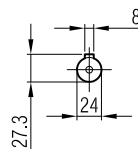
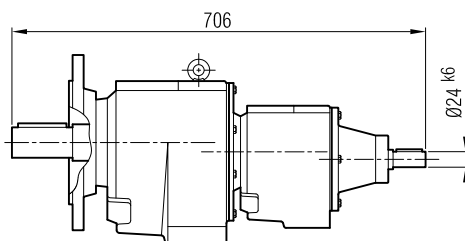


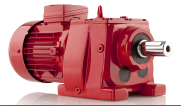
Ø350
(Opsiyonel / Optional / Opcional)

| | 71 | 80 | 90 S | | | |
|----------------|-----|-----|------|--|--|--|
| A | 773 | 803 | 870 | | | |
| A ₁ | 824 | 872 | 936 | | | |
| H | 111 | 118 | 126 | | | |
| HD | 182 | 198 | 216 | | | |
| AC | 138 | 156 | 176 | | | |

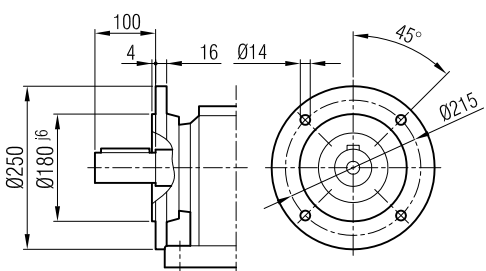
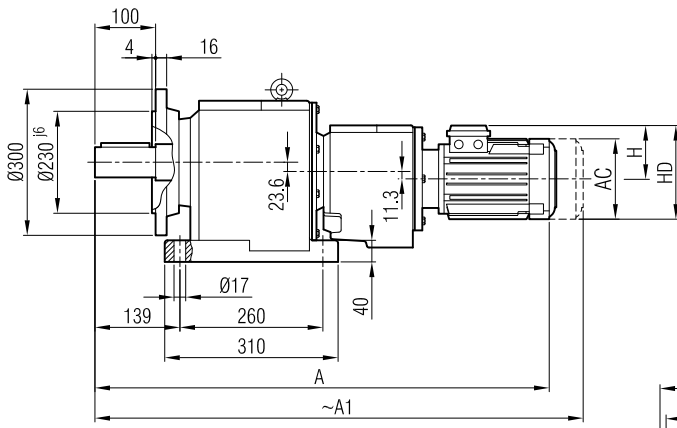
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 82 İR 62 / İRF 82 İR 63
İRF 83 İR 62 / İRF 83 İR 63

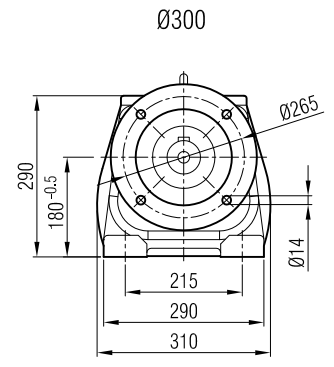
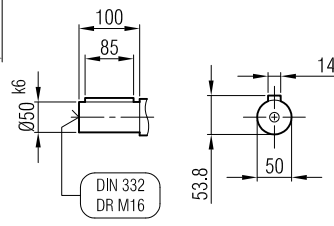




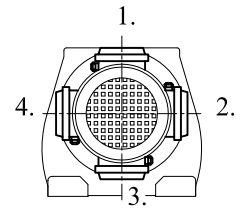
İRAFM 82 İR 63
İRAFM 83 İR 63



Ø250
(Opsiyonel / Optional / Opcional)



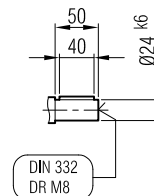
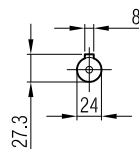
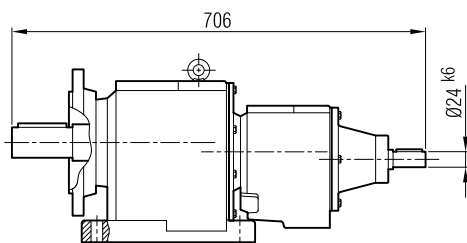
Terminal Box Positions
Posiciones de la caja de terminales

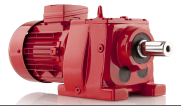


| | | | | | | |
|----------------|-----|-----|-----|--|--|--|
| | | | | | | |
| A | 773 | 803 | 870 | | | |
| A ₁ | 824 | 872 | 936 | | | |
| H | 111 | 118 | 126 | | | |
| HD | 182 | 198 | 216 | | | |
| AC | 138 | 156 | 176 | | | |

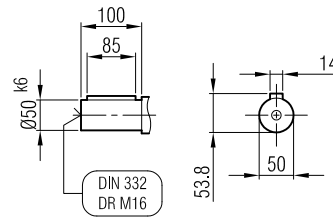
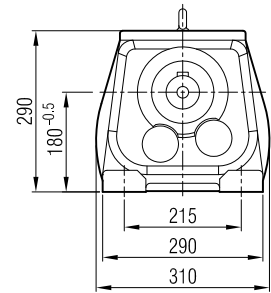
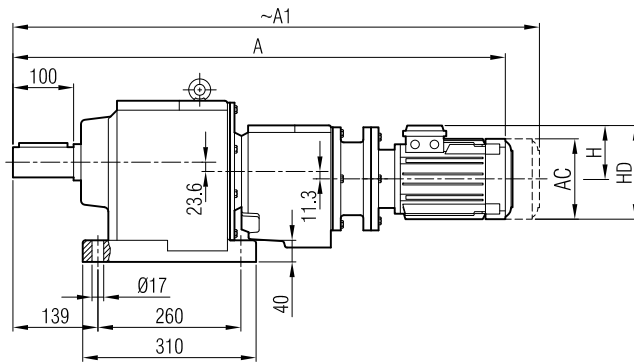
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRAF 82 İR 62 / İRAF 82 İR 63
İRAF 83 İR 62 / İRAF 83 İR 63

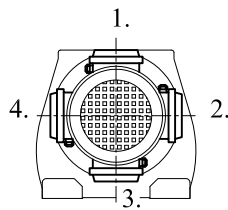




İRAPM 82 İR 63
İRAPM 83 İR 63



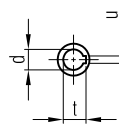
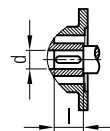
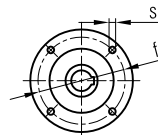
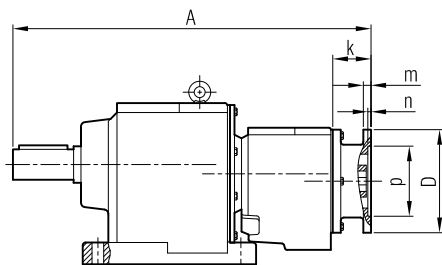
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 |
|----------------|-------|-------|-------|---------|
| A | 795 | 830 | 856 | 872 |
| A ₁ | 851 | 881 | 925 | 938 |
| H | 97 | 111 | 118 | 126 |
| HD | 160 | 182 | 198 | 216 |
| AC | 121 | 138 | 156 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

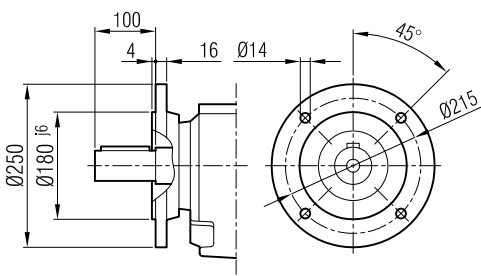
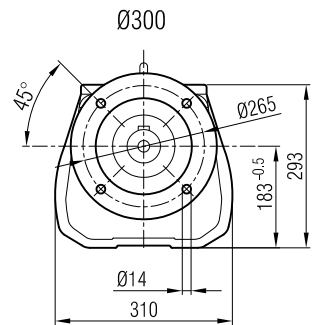
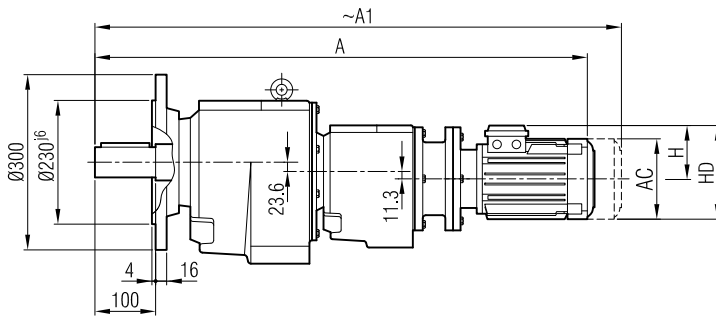
İRAP 82 İR 62 / İRAP 82 İR 63
İRAP 83 İR 62 / İRAP 83 İR 63



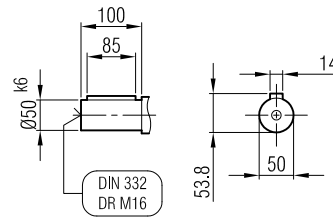
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 598 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 608 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |



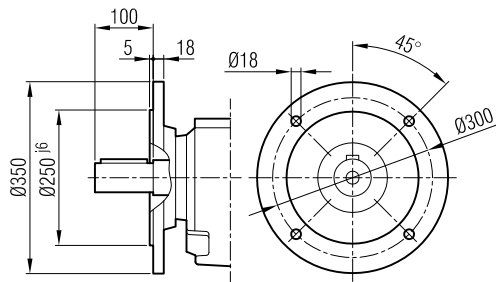
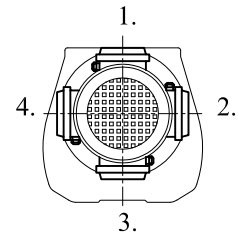
İRFPM 82 İR 63
İRFPM 83 İR 63



Ø250
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales

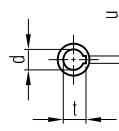
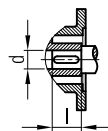
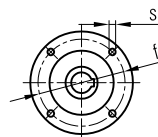
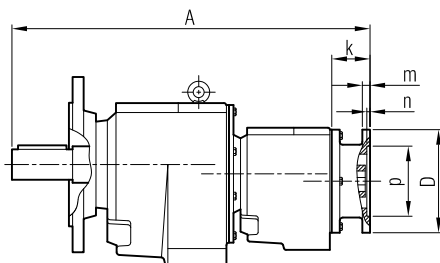


Ø350
(Opsiyonel / Optional / Opcional)

| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 |
|----------------|-------|-------|-------|---------|
| A | 795 | 830 | 856 | 872 |
| A ₁ | 851 | 881 | 925 | 938 |
| H | 97 | 111 | 118 | 126 |
| HD | 160 | 182 | 198 | 216 |
| AC | 121 | 138 | 156 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

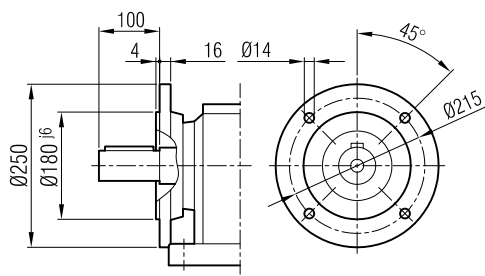
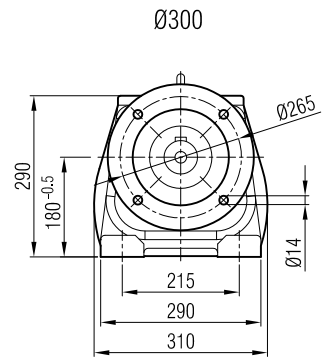
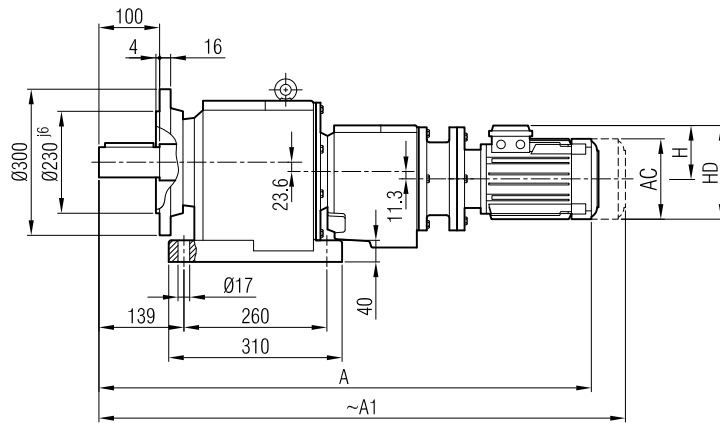
İRFP 82 İR 62 / İRFP 82 İR 63
İRFP 83 İR 62 / İRFP 83 İR 63



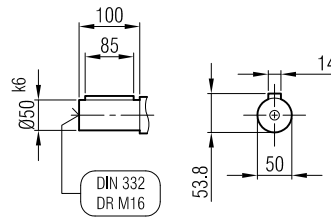
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 598 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 608 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |



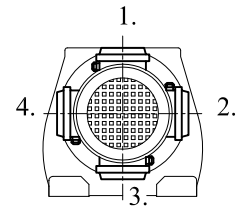
İRAFP 82 İR 63
İRAFP 83 İR 63



Ø250
(Opsiyonel / Optional / Opcional)



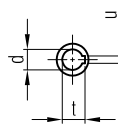
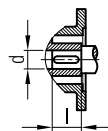
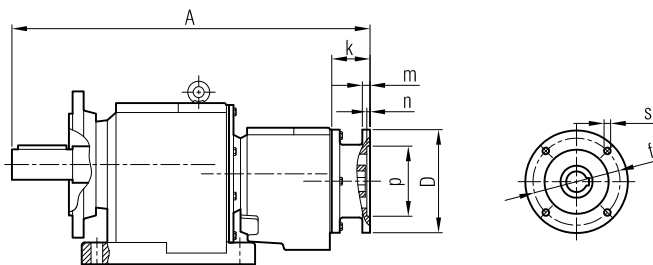
Terminal Box Positions
Posiciones de la caja de terminales



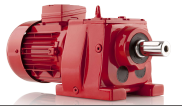
| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 |
|----------------|-------|-------|-------|---------|
| A | 795 | 830 | 856 | 872 |
| A ₁ | 851 | 881 | 925 | 938 |
| H | 97 | 111 | 118 | 126 |
| HD | 160 | 182 | 198 | 216 |
| AC | 121 | 138 | 156 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

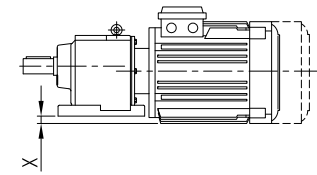
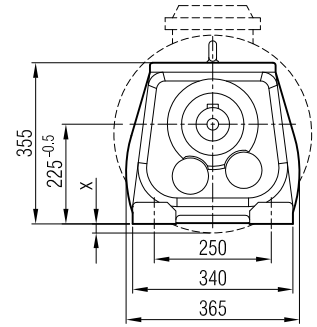
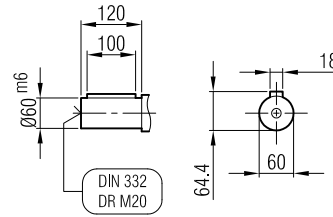
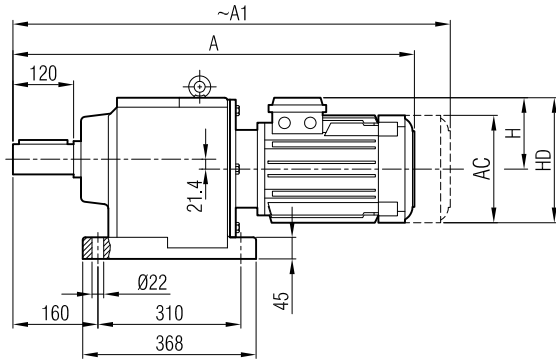
İRAFP 82 İR 62 / İRAFP 82 İR 63
İRAFP 83 İR 62 / İRAFP 83 İR 63



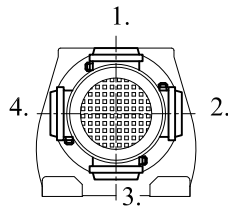
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 598 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 608 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 613 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAM 92
İRAM 93



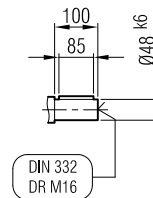
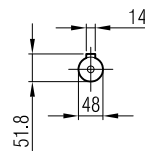
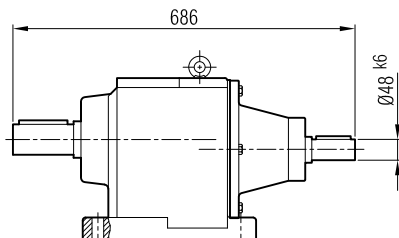
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 |
|----|-----|-----|-------|-------|-------|-------|-------|-------|------|
| A | 757 | 780 | 832 | 870 | 960 | 1004 | 1017 | 1055 | 1096 |
| A1 | 835 | 863 | 932 | 970 | 1075 | 1119 | 1137 | 1175 | 1216 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 |
| X | - | - | - | - | - | - | - | - | - |

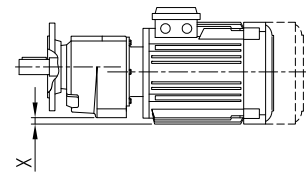
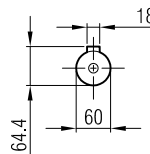
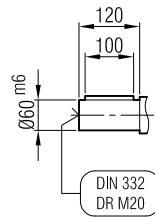
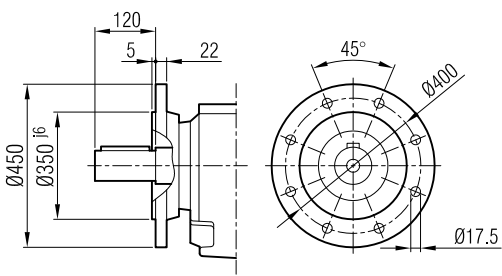
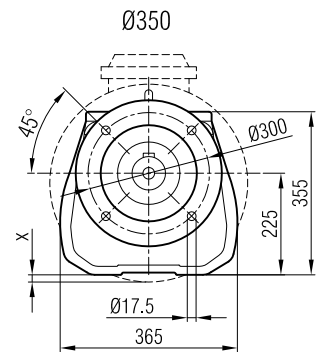
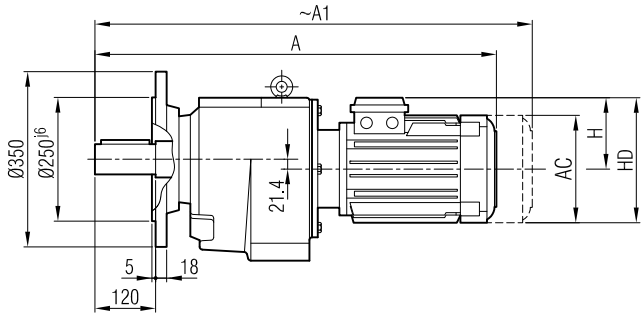
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 92
İRA 93



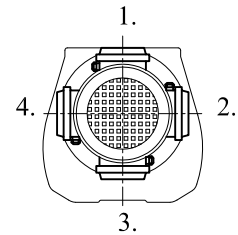


İRFM 92
İRFM 93



Ø450
(Opsiyonel / Optional / Opcional)

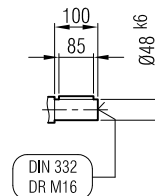
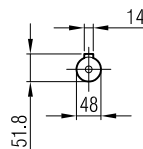
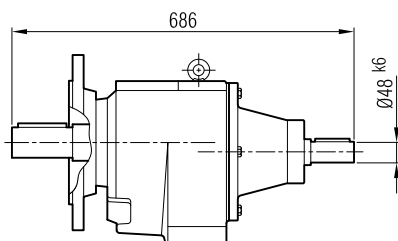
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 |
|----|-----|-----|-------|-------|-------|-------|-------|-------|------|
| A | 757 | 780 | 832 | 870 | 960 | 1004 | 1017 | 1055 | 1096 |
| A1 | 835 | 863 | 932 | 970 | 1075 | 1119 | 1137 | 1175 | 1216 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 |
| X | - | - | - | - | - | - | - | - | - |

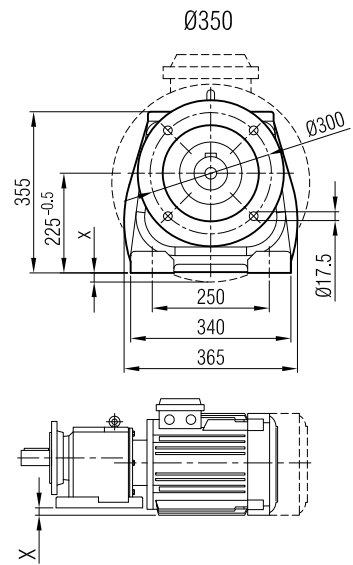
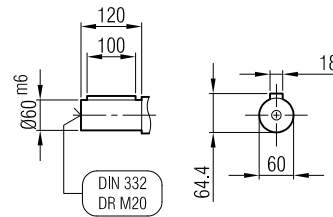
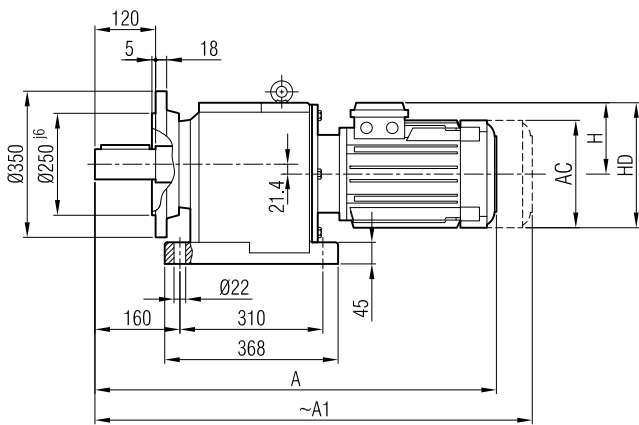
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 92
İRF 93

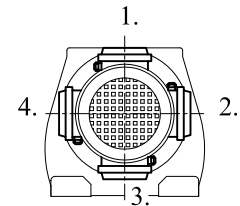




İRAF 92
İRAF 93

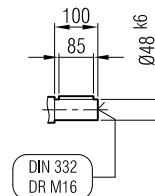
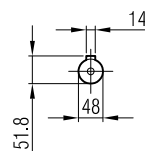
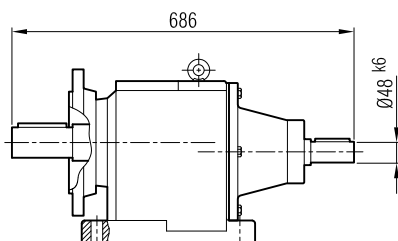


Terminal Box Positions
Posiciones de la caja de terminales

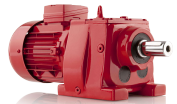


| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 |
|----|-----|-----|-------|-------|-------|-------|-------|-------|------|
| A | 757 | 780 | 832 | 870 | 960 | 1004 | 1017 | 1055 | 1096 |
| A1 | 835 | 863 | 932 | 970 | 1075 | 1119 | 1137 | 1175 | 1216 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 |
| X | - | - | - | - | - | - | - | - | - |

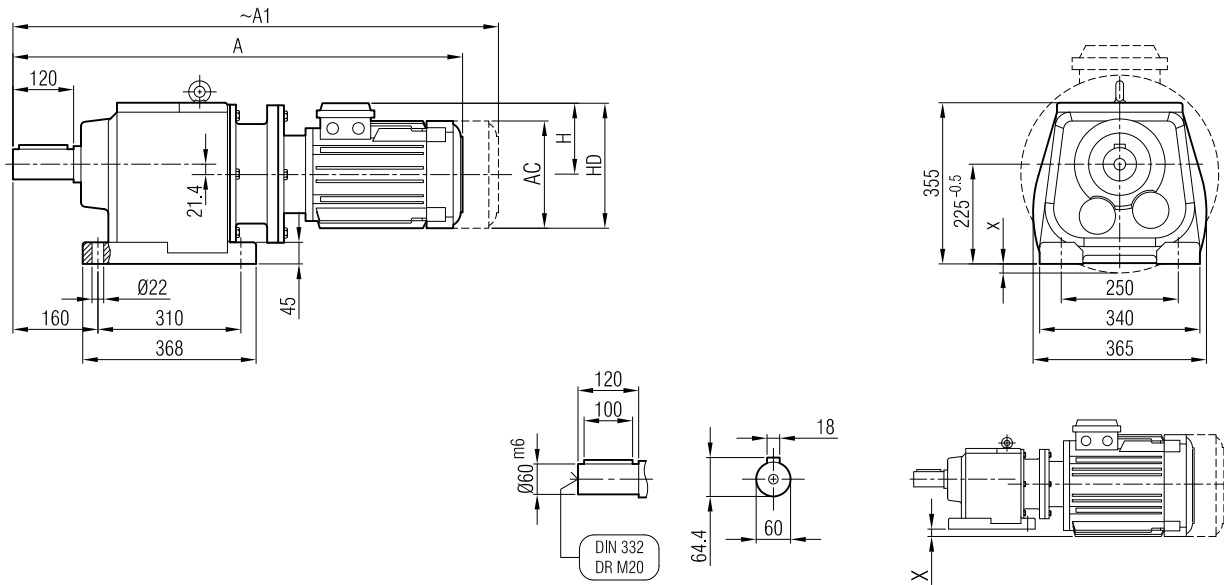
İRAF 92
İRAF 93



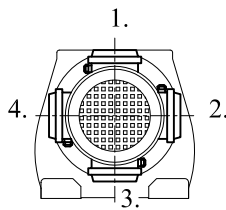
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno



İRAPM 92
İRAPM 93



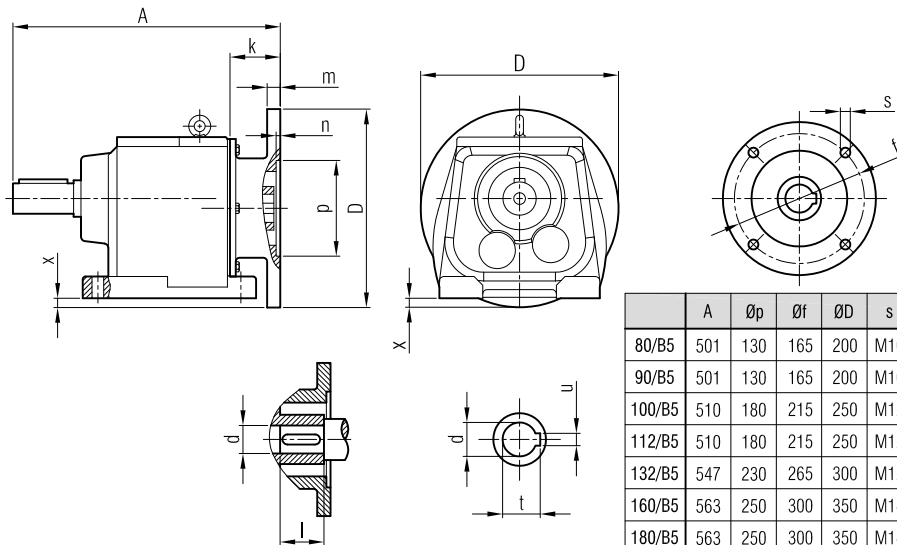
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|--------|
| A | 745 | 760 | 785 | 826 | 846 | 927 | 965 | 1053 | 1097 | 1110 | 1148 | 1248 |
| A ₁ | 814 | 826 | 851 | 904 | 929 | 1027 | 1065 | 1168 | 1212 | 1230 | 1268 | 1368 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

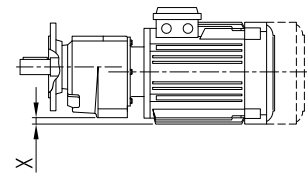
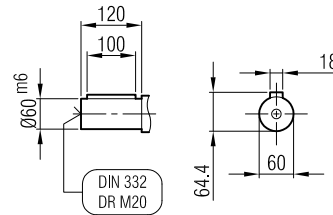
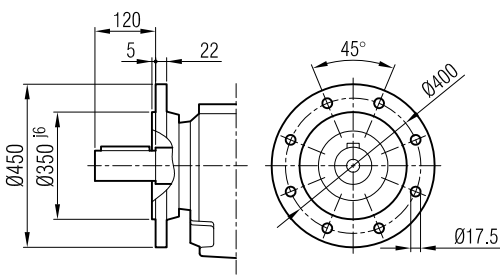
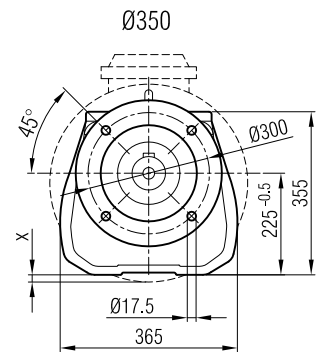
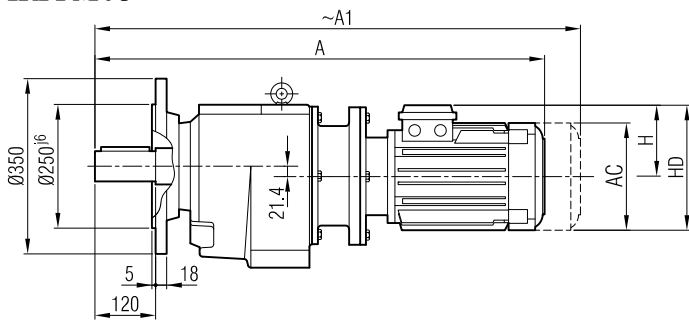
İRAP 92
İRAP 93



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 80/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 547 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 611 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |

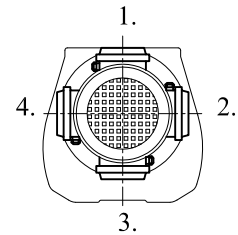


İRFPM 92
İRFPM 93



Ø450
(Opsiyonel / Optional / Opcional)

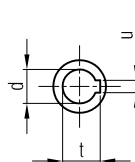
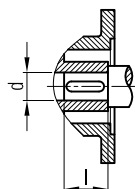
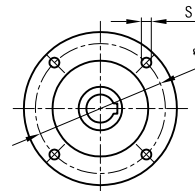
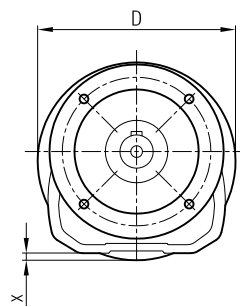
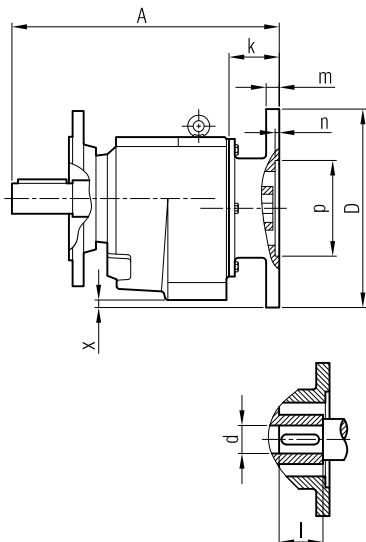
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 |
|----|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|--------|
| A | 745 | 760 | 785 | 826 | 846 | 927 | 965 | 1053 | 1097 | 1110 | 1148 | 1248 |
| A1 | 814 | 826 | 851 | 904 | 929 | 1027 | 1065 | 1168 | 1212 | 1230 | 1268 | 1368 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

İRFP 92
İRFP 93

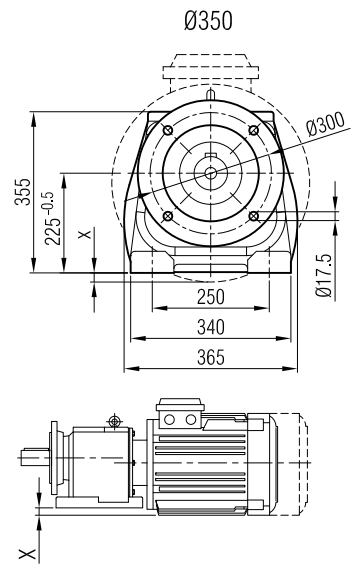
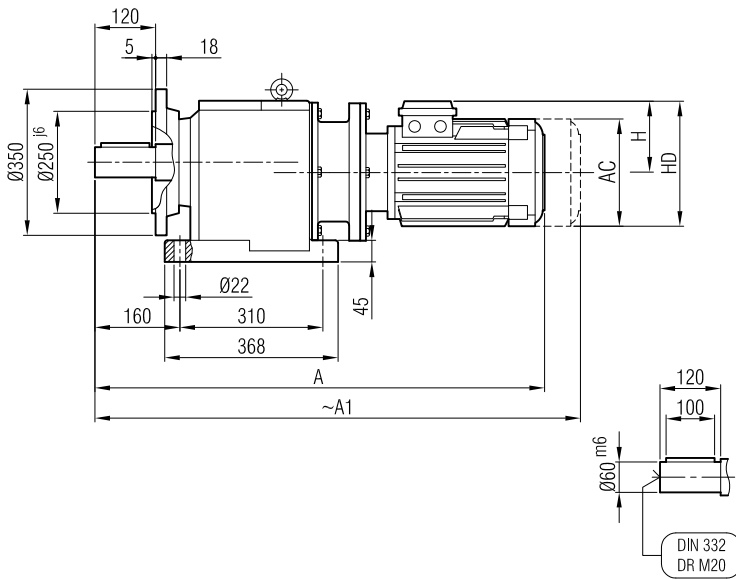
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno



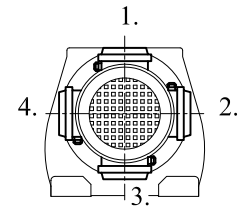
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 80/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 547 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 611 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |



İRAFPM 92
İRAFPM 93



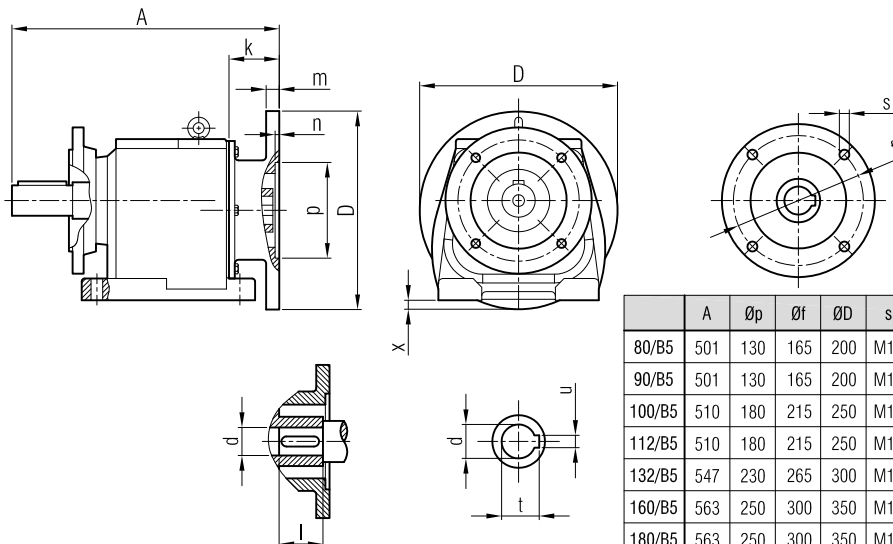
Terminal Box Positions
Posiciones de la caja de terminales



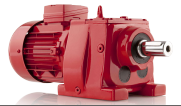
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|--------|
| A | 745 | 760 | 785 | 826 | 846 | 927 | 965 | 1053 | 1097 | 1110 | 1148 | 1248 |
| A ₁ | 814 | 826 | 851 | 904 | 929 | 1027 | 1065 | 1168 | 1212 | 1230 | 1268 | 1368 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

İRAFP 92
İRAFP 93

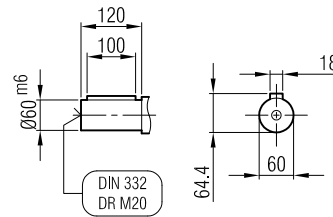
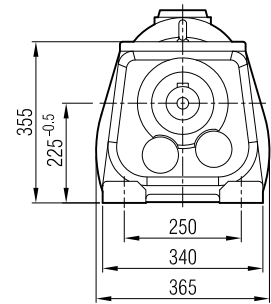
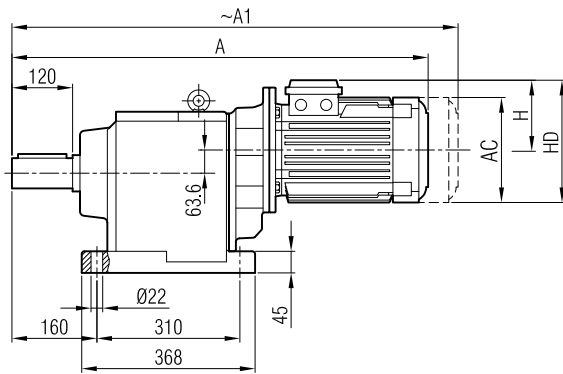
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



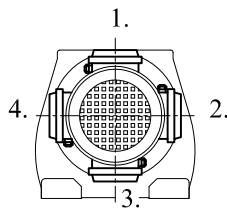
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 80/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 | - |
| 90/B5 | 501 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 | - |
| 100/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 510 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 547 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 563 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 611 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |



İRAM 94



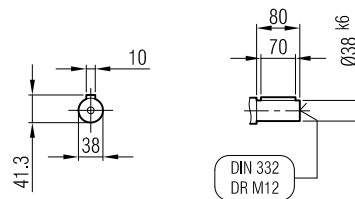
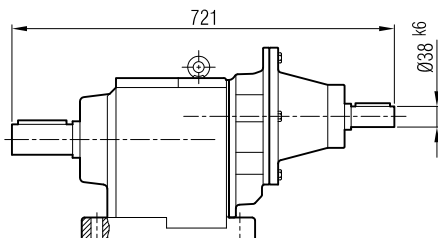
Terminal Box Positions
Posiciones de la caja de terminales

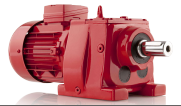


| | 80 | 90 S | 90 L | 100 | | | |
|----------------|-----|------|------|-----|--|--|--|
| A | 754 | 782 | 807 | 847 | | | |
| A ₁ | 823 | 848 | 873 | 925 | | | |
| H | 118 | 126 | 126 | 134 | | | |
| HD | 198 | 216 | 216 | 234 | | | |
| AC | 156 | 176 | 176 | 194 | | | |

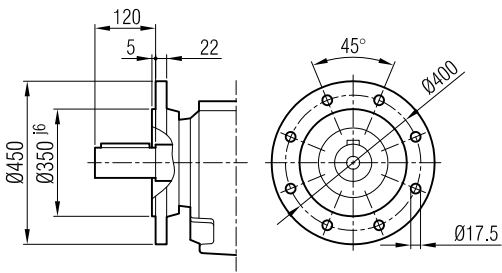
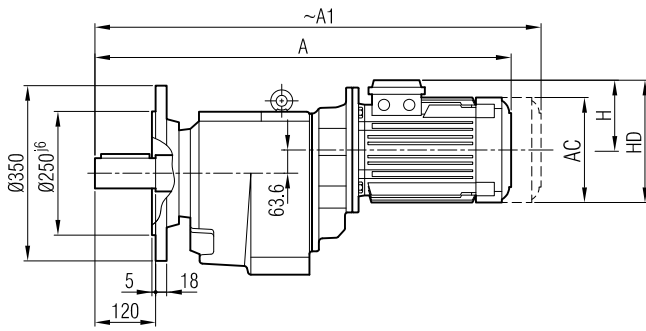
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 94

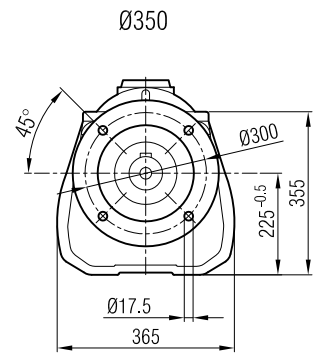
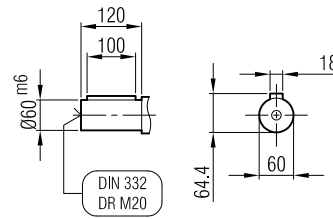




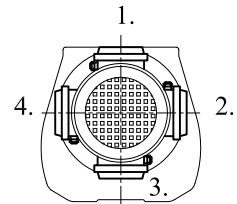
İRFM 94



Ø450
(Opsiyonel / Optional / Opcional)



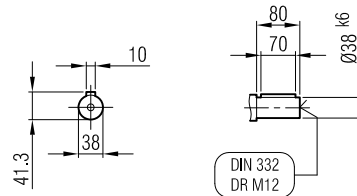
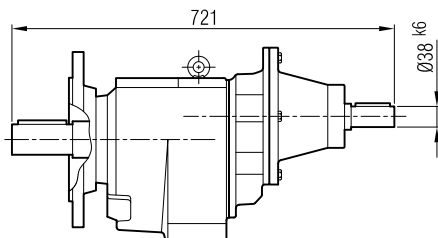
Terminal Box Positions
Posiciones de la caja de terminales

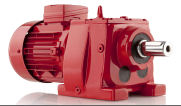


| | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|------|------|-----|--|--|
| A | 754 | 782 | 807 | 847 | | |
| A ₁ | 823 | 848 | 873 | 925 | | |
| H | 118 | 126 | 126 | 134 | | |
| HD | 198 | 216 | 216 | 234 | | |
| AC | 156 | 176 | 176 | 194 | | |

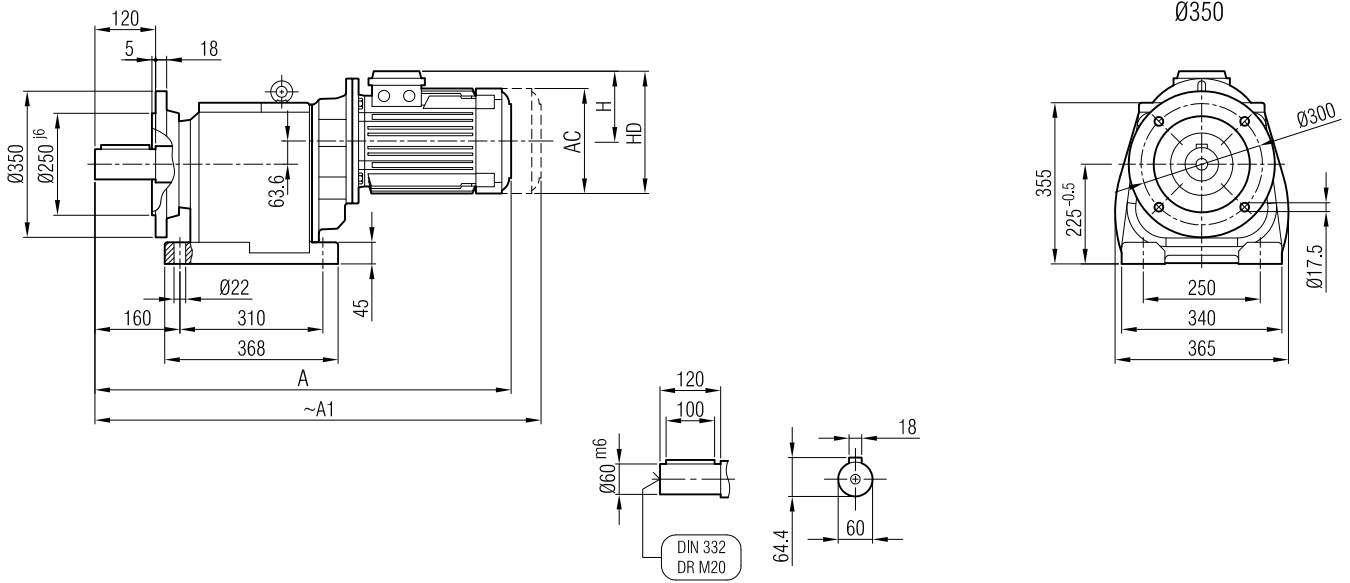
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 94

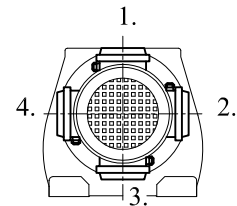




İRAF 94



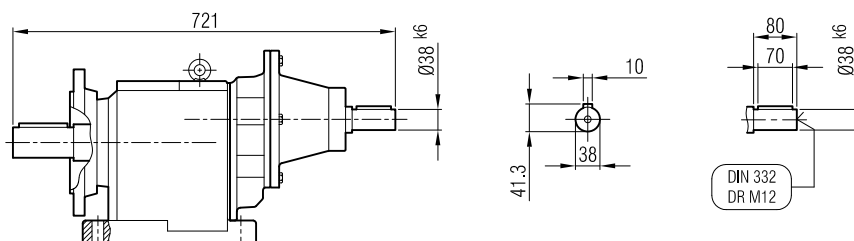
Terminal Box Positions
Posiciones de la caja de terminales

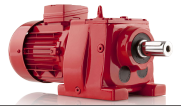


| | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|------|------|-----|--|--|
| A | 754 | 782 | 807 | 847 | | |
| A ₁ | 823 | 848 | 873 | 925 | | |
| H | 118 | 126 | 126 | 134 | | |
| HD | 198 | 216 | 216 | 234 | | |
| AC | 156 | 176 | 176 | 194 | | |

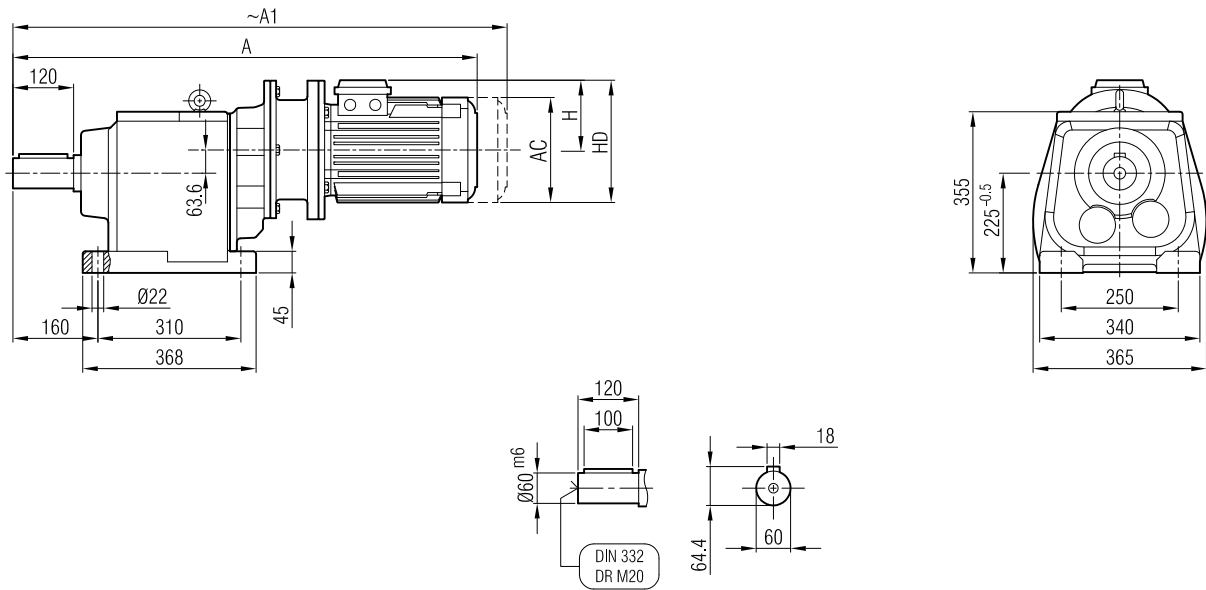
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 94

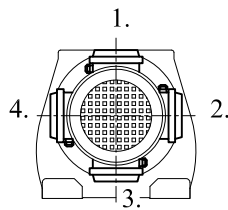




İRAPM 94



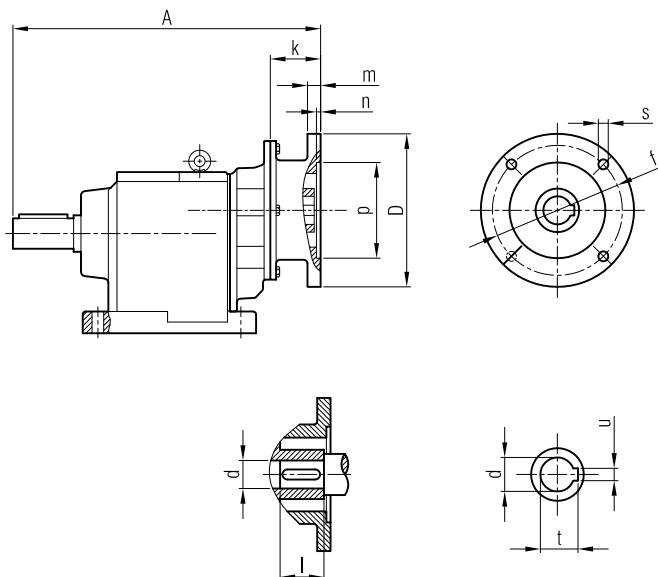
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 842 | 857 | 882 | 922 |
| A ₁ | 911 | 923 | 948 | 1000 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

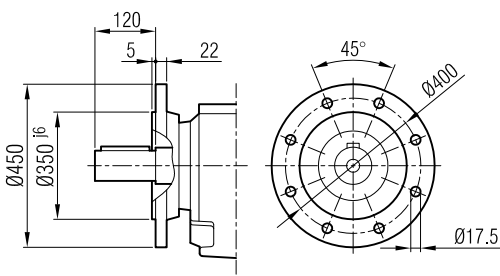
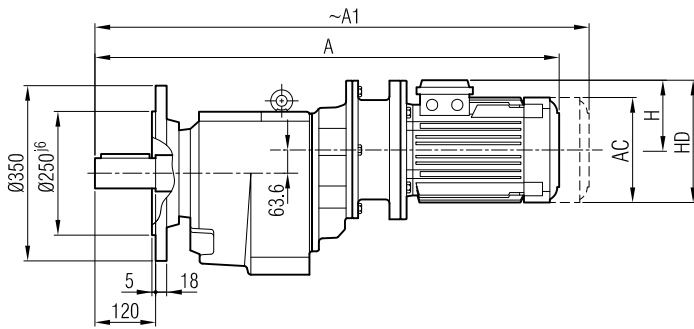
İRAP 94



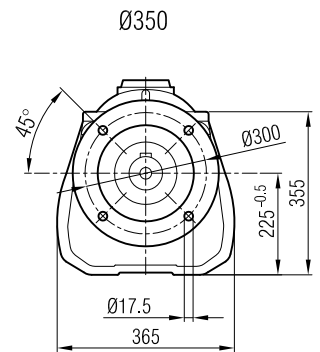
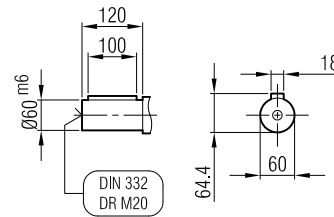
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



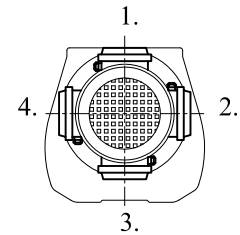
İRFPM 94



Ø450
(Opsiyonel / Optional / Opcional)



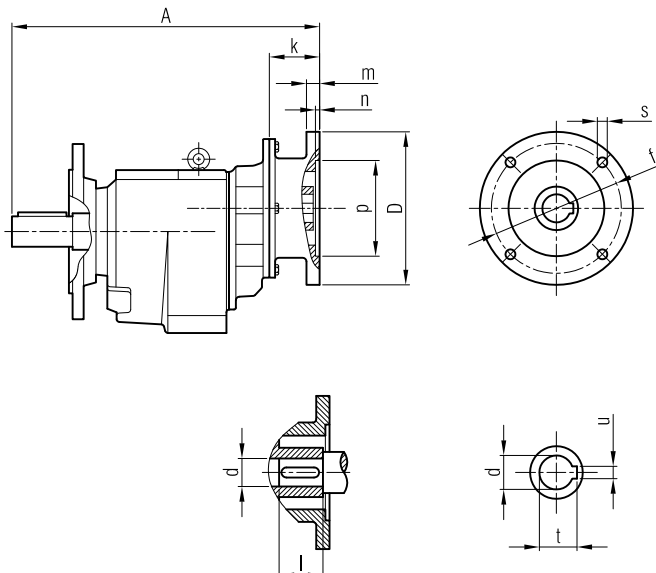
Terminal Box Positions
Posiciones de la caja de terminales



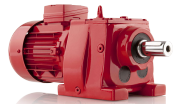
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 842 | 857 | 882 | 922 |
| A ₁ | 911 | 923 | 948 | 1000 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

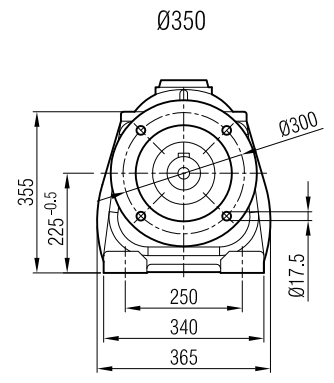
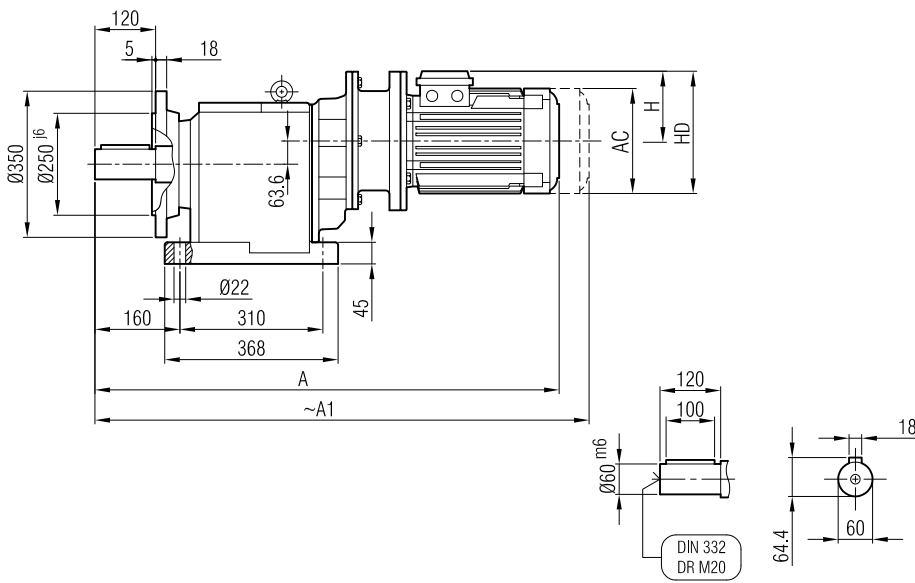
İRFP 94



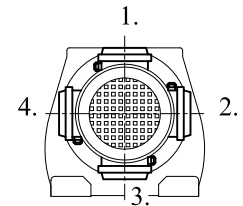
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAFPM 94



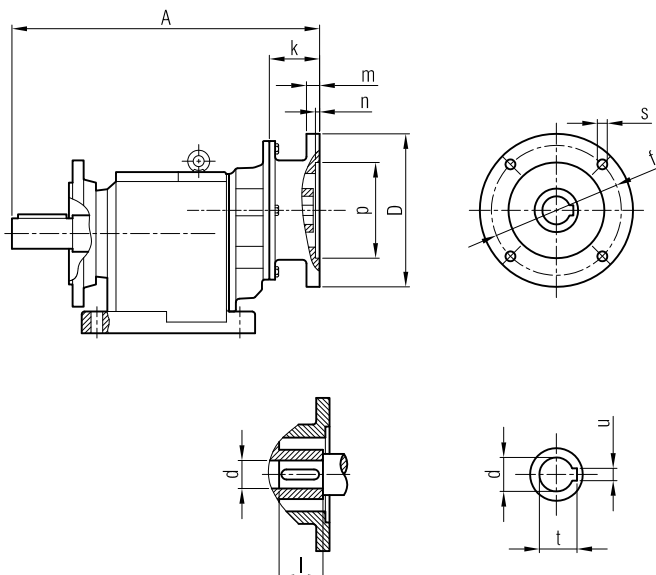
Terminal Box Positions
Posiciones de la caja de terminales



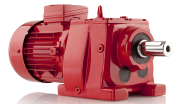
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 842 | 857 | 882 | 922 |
| A ₁ | 911 | 923 | 948 | 1000 |
| H | 118 | 126 | 126 | 134 |
| HD | 198 | 216 | 216 | 234 |
| AC | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

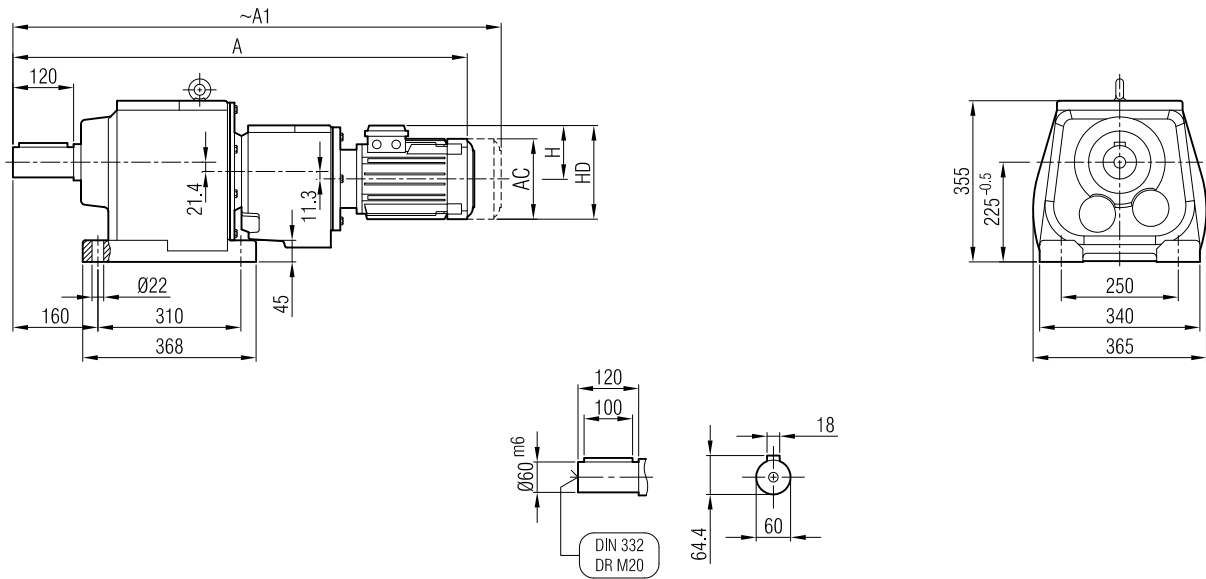
İRAFPM 94



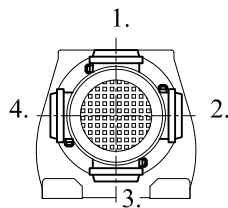
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAM 92 İR 62 / İRAM 92 İR 63
İRAM 93 İR 62 / İRAM 93 İR 63



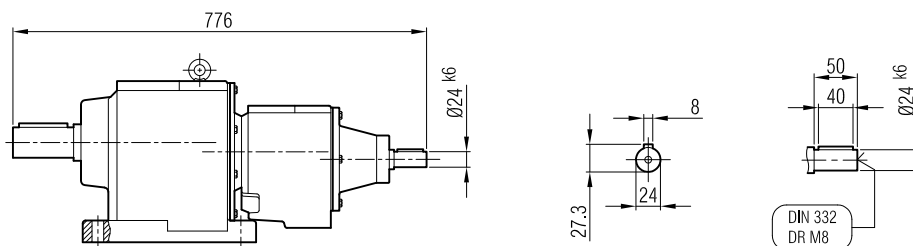
Terminal Box Positions
Posiciones de la caja de terminales

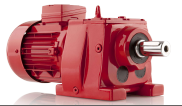


| | 71 | 80 | 90 S | 90 L | | | |
|----------------|-----|-----|------|------|--|--|--|
| A | 843 | 873 | 903 | 928 | | | |
| A ₁ | 894 | 942 | 969 | 994 | | | |
| H | 111 | 118 | 126 | 126 | | | |
| HD | 182 | 198 | 216 | 216 | | | |
| AC | 138 | 156 | 176 | 176 | | | |

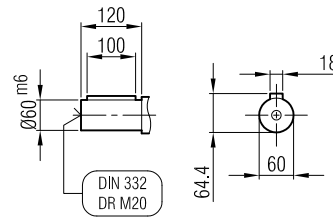
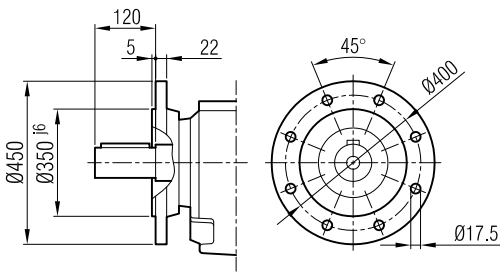
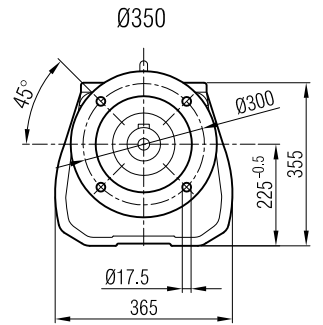
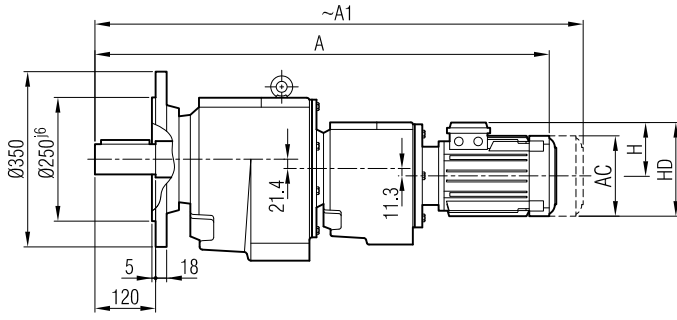
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 92 İR 62 / İRA 92 İR 63
İRA 93 İR 62 / İRA 93 İR 63



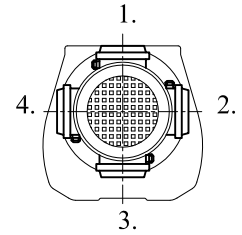


İRFM 92 İR 62 / İRFM 92 İR 63
İRFM 93 İR 62 / İRFM 93 İR 63



Ø450
(Opsiyonel / Optional / Opcional)

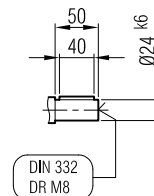
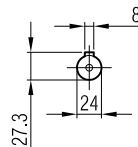
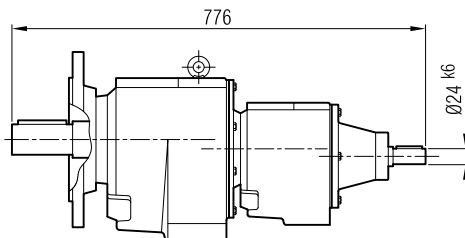
Terminal Box Positions
Posiciones de la caja de terminales

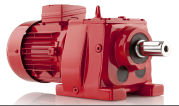


| | 71 | 80 | 90 S | 90 L | | |
|----------------|-----|-----|------|------|--|--|
| A | 843 | 873 | 903 | 928 | | |
| A ₁ | 894 | 942 | 969 | 994 | | |
| H | 111 | 118 | 126 | 126 | | |
| HD | 182 | 198 | 216 | 216 | | |
| AC | 138 | 156 | 176 | 176 | | |

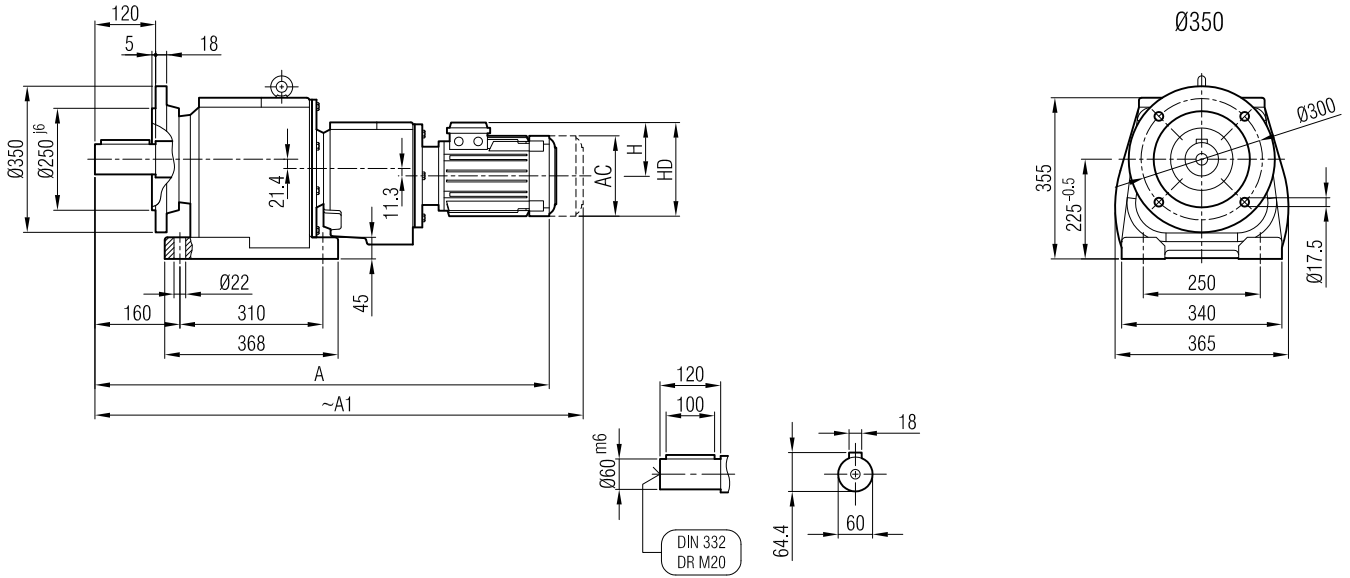
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 92 İR 62 / İRF 92 İR 63
İRF 93 İR 62 / İRF 93 İR 63

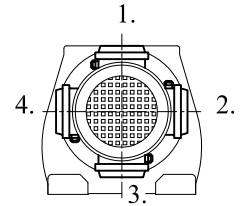




İRAFM 92 İR 62 / İRAFM 92 İR 63
İRAFM 93 İR 62 / İRAFM 93 İR 63



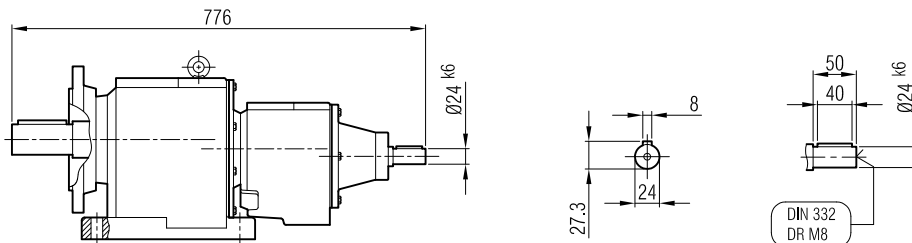
Terminal Box Positions
Posiciones de la caja de terminales



| | 80 | 90 S | | | |
|----------------|-----|------|-----|-----|--|
| A | 843 | 873 | 903 | 928 | |
| A ₁ | 894 | 942 | 969 | 994 | |
| H | 111 | 118 | 126 | 126 | |
| HD | 182 | 198 | 216 | 216 | |
| AC | 138 | 156 | 176 | 176 | |

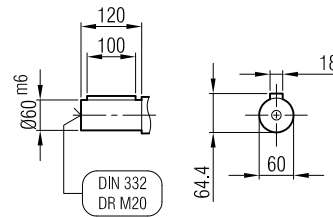
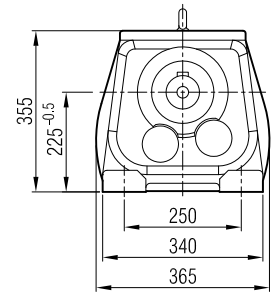
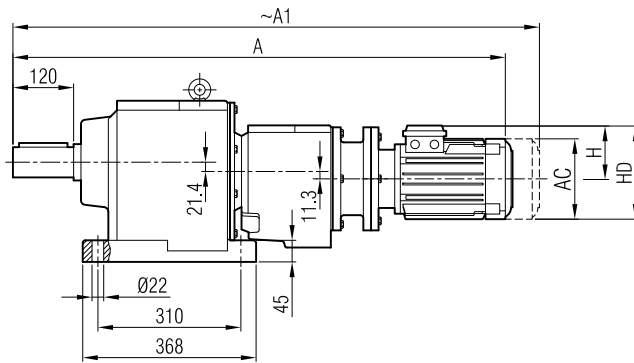
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 92 İR 62 / İRAF 92 İR 63
İRAF 93 İR 62 / İRAF 93 İR 63

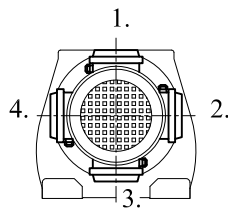




İRAPM 92 İR 62 / İRAPM 92 İR 63
İRAPM 93 İR 62 / İRAPM 93 İR 63



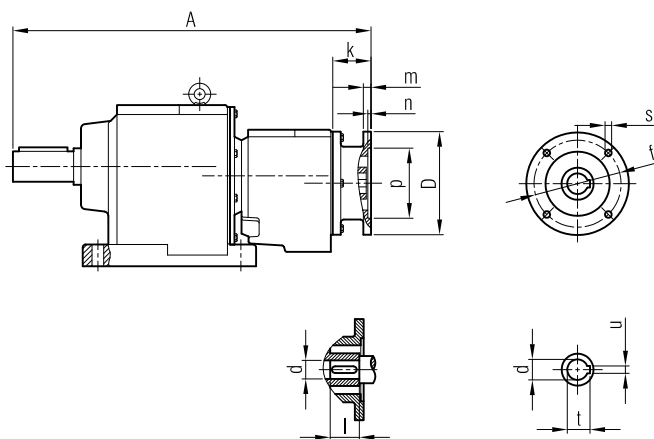
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 865 | 900 | 926 | 942 | 967 |
| A ₁ | 921 | 951 | 995 | 1008 | 1033 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

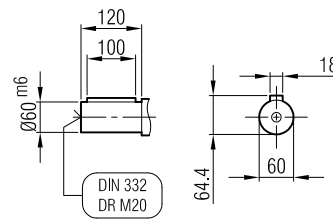
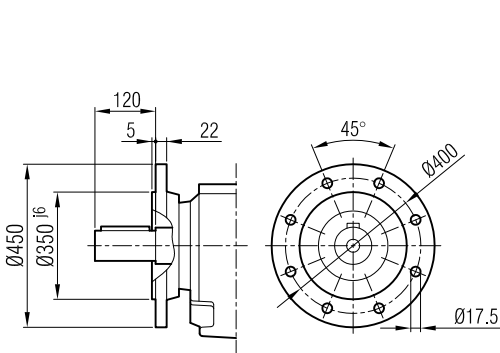
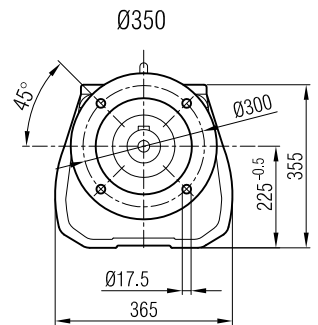
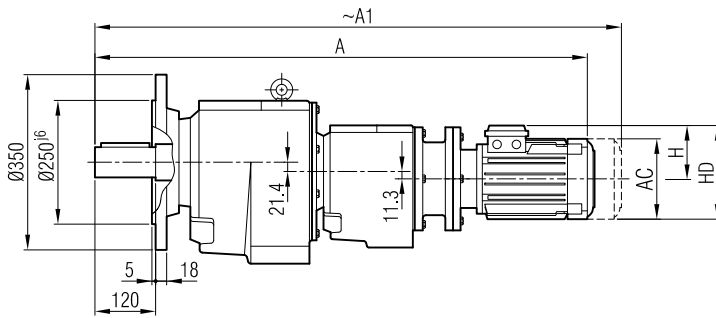
İRAP 92 İR 62 / İRAP 92 İR 63
İRAP 93 İR 62 / İRAP 93 İR 63



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 668 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 678 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |

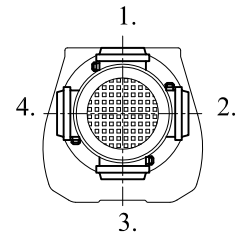


İRFPM 92 İR 62 / İRFPM 92 İR 63
İRFPM 93 İR 62 / İRFPM 93 İR 63



Ø450
(Opsiyonel / Optional / Opcional)

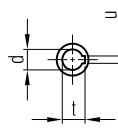
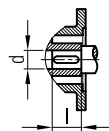
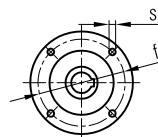
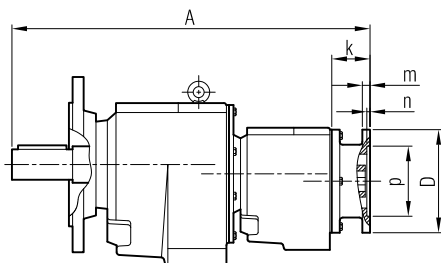
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 865 | 900 | 926 | 942 | 967 |
| A ₁ | 921 | 951 | 995 | 1008 | 1033 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

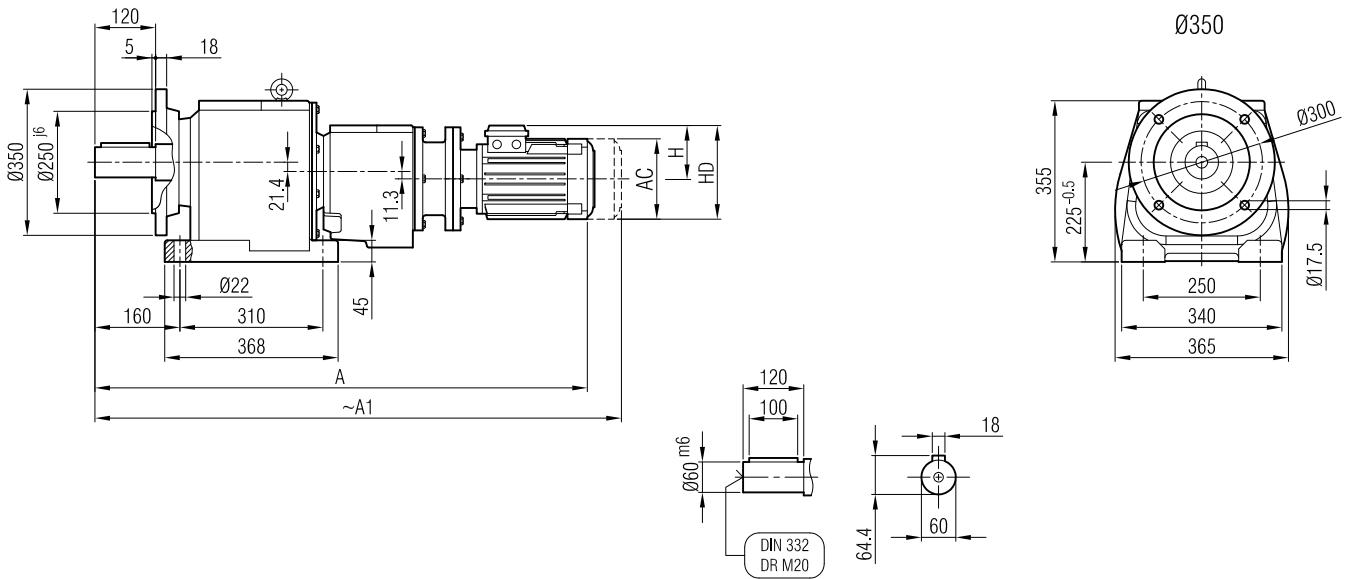
İRFP 92 İR 62 / İRFP 92 İR 63
İRFP 93 İR 62 / İRFP 93 İR 63



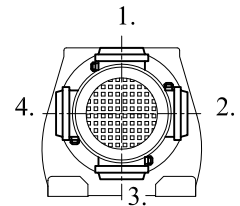
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 668 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 678 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAFP 92 İR 62 / İRAFP 92 İR 63
İRAFP 93 İR 62 / İRAFP 93 İR 63



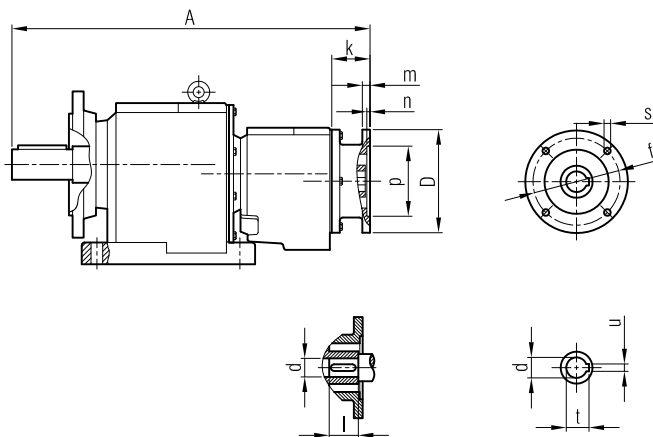
Terminal Box Positions
Posiciones de la caja de terminales



| | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 |
|----------------|-------|-------|-------|---------|---------|
| A | 865 | 900 | 926 | 942 | 967 |
| A ₁ | 921 | 951 | 995 | 1008 | 1033 |
| H | 97 | 111 | 118 | 126 | 126 |
| HD | 160 | 182 | 198 | 216 | 216 |
| AC | 121 | 138 | 156 | 176 | 176 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

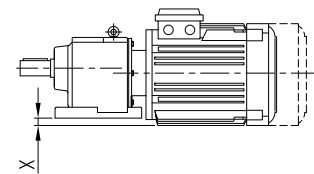
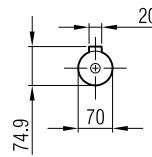
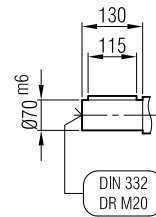
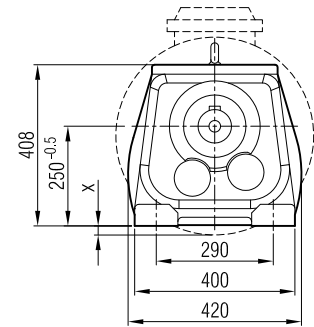
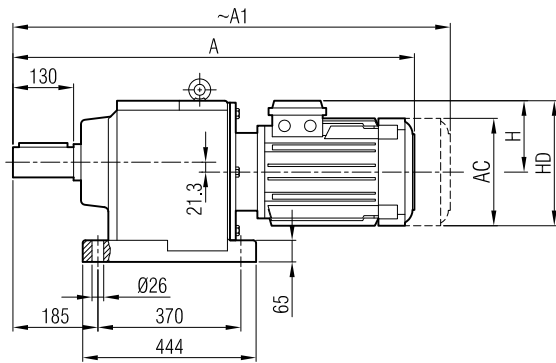
İRAFP 92 İR 62 / İRAFP 92 İR 63
İRAFP 93 İR 62 / İRAFP 93 İR 63



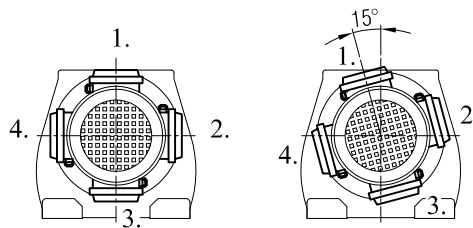
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|-------|-----|-----|-----|-----|-----|------|----|---|----|----|------|---|
| 63/B5 | 668 | 95 | 115 | 140 | M8 | 35.5 | 8 | 4 | 11 | 23 | 12.8 | 4 |
| 71/B5 | 678 | 110 | 130 | 160 | M8 | 45 | 9 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 683 | 130 | 165 | 200 | M10 | 50 | 12 | 5 | 24 | 50 | 27.3 | 8 |



İRAM 102
İRAM 103



Terminal Box Positions
Posiciones de la caja de terminales



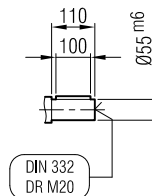
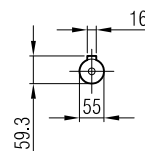
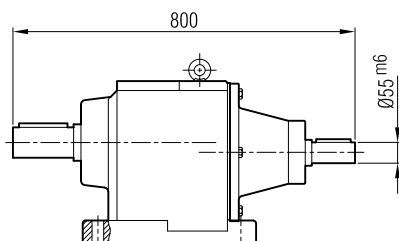
100-112-132-180-200
225 **Tip**/Type/Typ

160 **Tip**/Type/Typ

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M |
|----------------|-----|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|
| A | 841 | 861 | 902 | 940 | 1012 | 1056 | 1084 | 1122 | 1176 | 1210 | 1235 |
| A ₁ | 919 | 944 | 1002 | 1040 | 1127 | 1171 | 1204 | 1242 | 1296 | 1330 | 1355 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 |
| X | - | - | - | - | - | - | - | - | - | - | - |

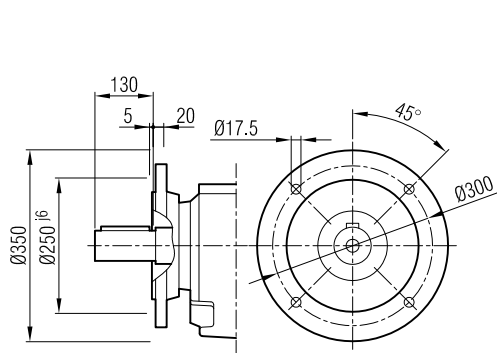
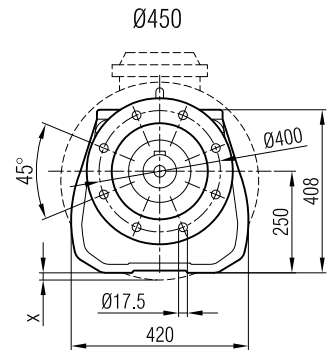
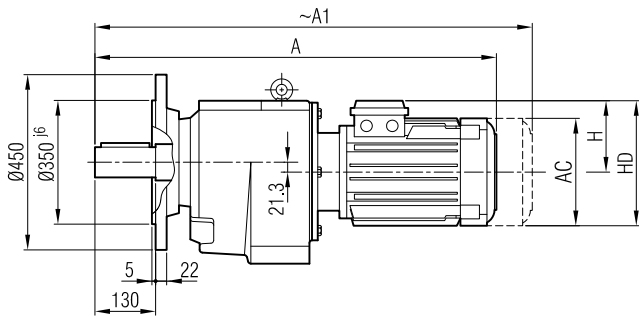
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 102
İRA 103

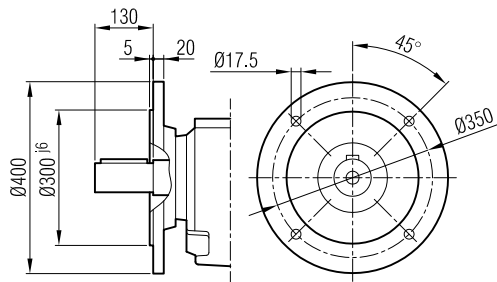




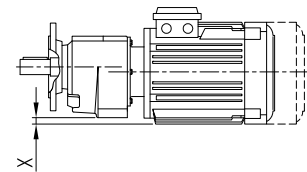
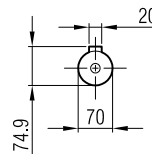
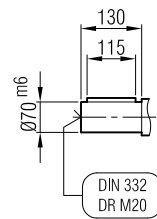
İRFM 102
İRFM 103



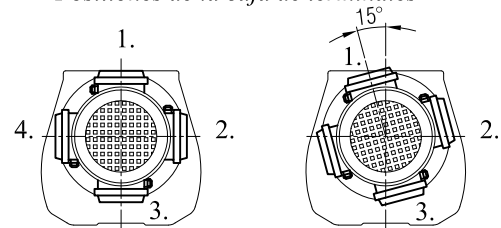
Ø350
(Opsiyonel / Optional / Opcional)



Ø400
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



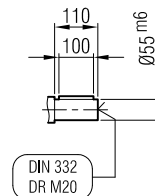
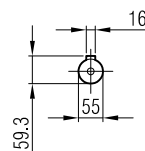
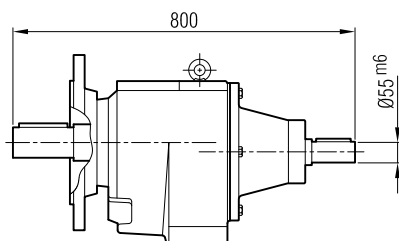
100-112-132-180-200
225 **Tip/Type/Typ**

160 **Tip/Type/Typ**

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M |
|----------------|-----|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|
| A | 841 | 861 | 902 | 940 | 1012 | 1056 | 1084 | 1122 | 1176 | 1210 | 1235 |
| A ₁ | 919 | 944 | 1002 | 1040 | 1127 | 1171 | 1204 | 1242 | 1296 | 1330 | 1355 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 |
| x | - | - | - | - | - | - | - | - | - | - | - |

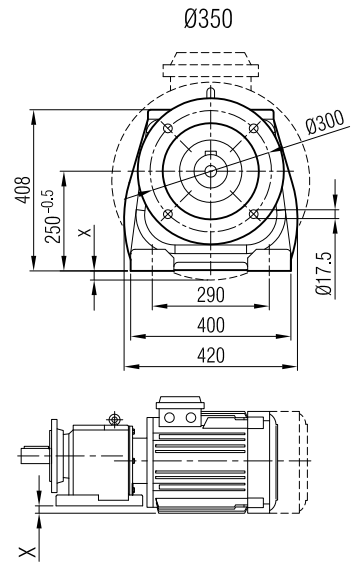
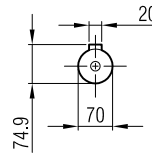
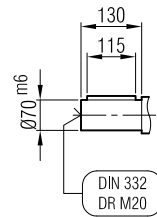
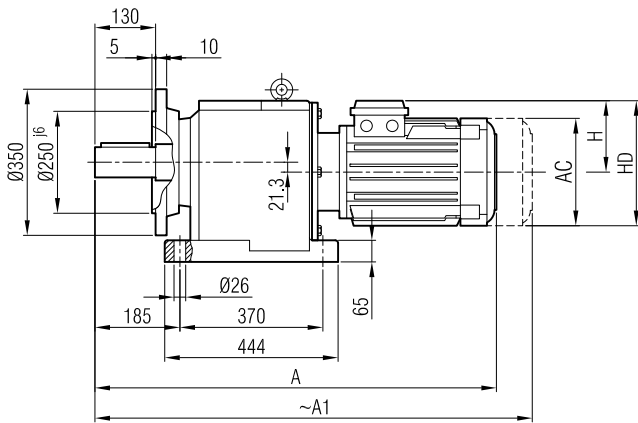
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 102
İRF 103

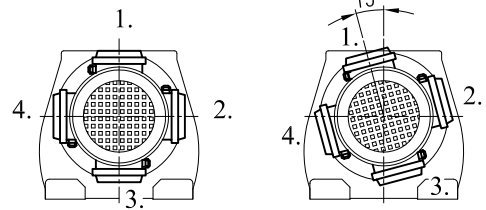




İRAFM 102
İRAFM 103



Terminal Box Positions
Posiciones de la caja de terminales



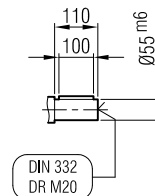
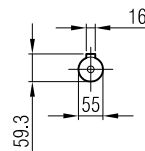
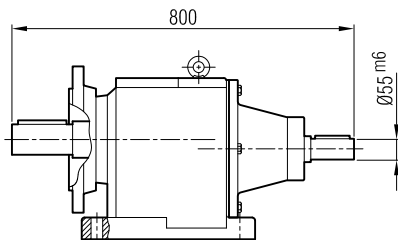
100-112-132-180-200
225 **Tip/Type/Typ**

160 **Tip/Type/Typ**

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M |
|----------------|-----|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|
| A | 841 | 861 | 902 | 940 | 1012 | 1056 | 1084 | 1122 | 1176 | 1210 | 1235 |
| A ₁ | 919 | 944 | 1002 | 1040 | 1127 | 1171 | 1204 | 1242 | 1296 | 1330 | 1355 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 |
| x | - | - | - | - | - | - | - | - | - | - | - |

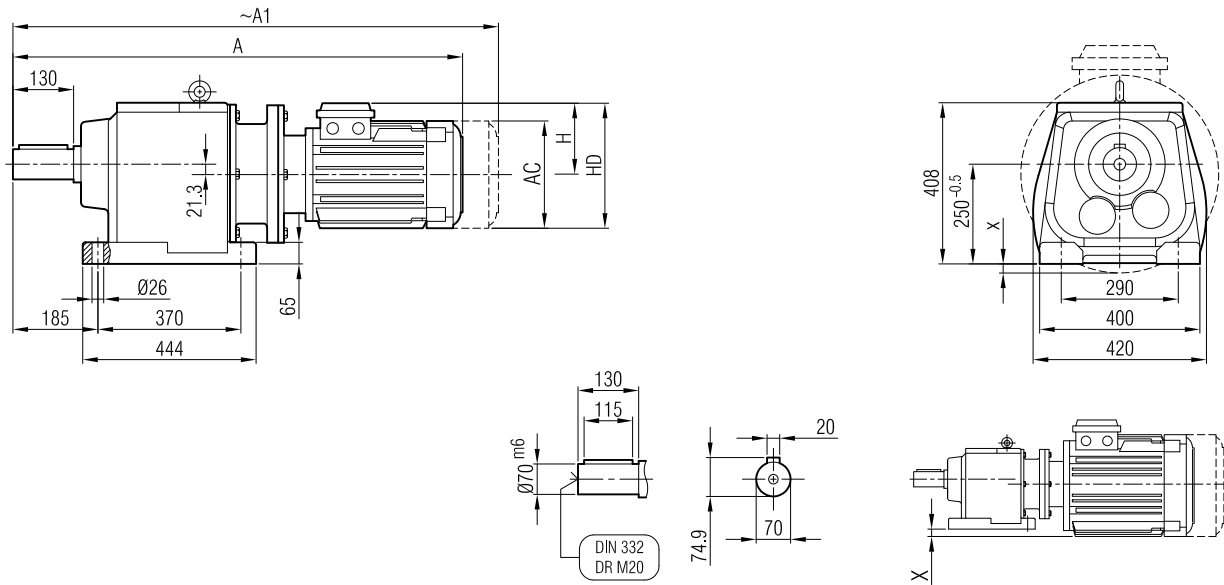
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 102
İRAF 103

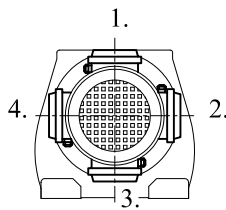




İRAPM 102
İRAPM 103



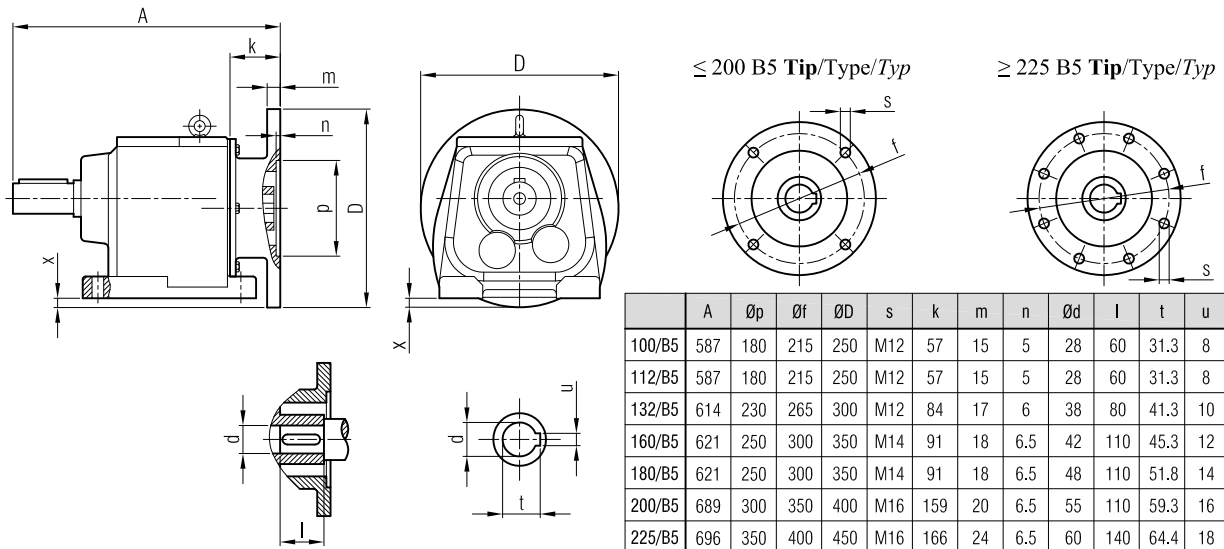
Terminal Box Positions
Posiciones de la caja de terminales



| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 |
|----------------|--------|--------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| A | 903 | 923 | 994 | 1032 | 1111 | 1155 | 1168 | 1206 | 1326 | 1351 | 1376 |
| A ₁ | 981 | 1006 | 1094 | 1132 | 1226 | 1270 | 1288 | 1326 | 1446 | 1471 | 1496 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 |
| X | - | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

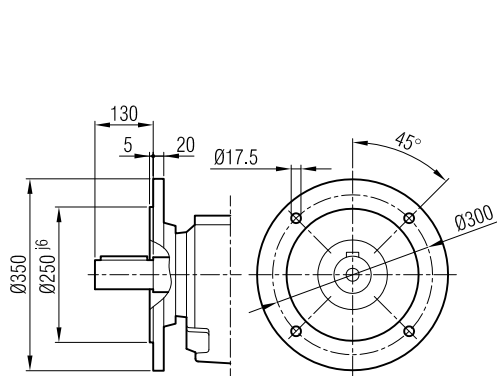
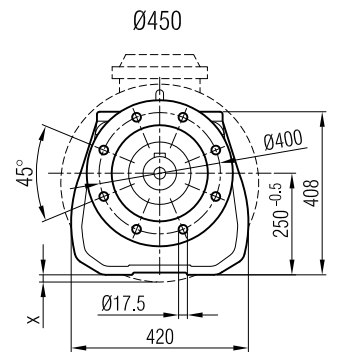
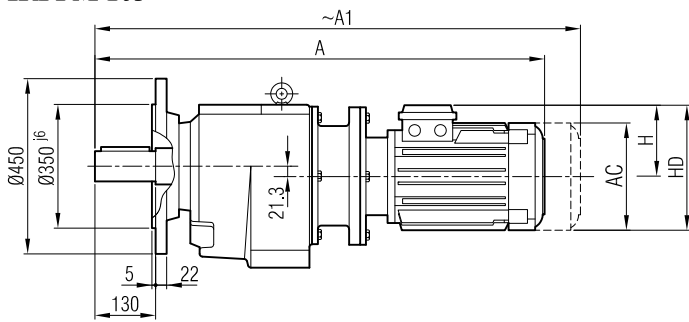
İRAP 102
İRAP 103



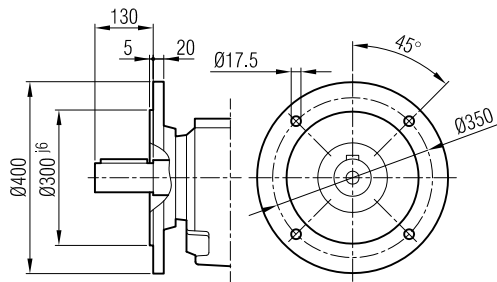
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 689 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 696 | 350 | 400 | 450 | M16 | 166 | 24 | 6.5 | 60 | 140 | 64.4 | 18 | - |



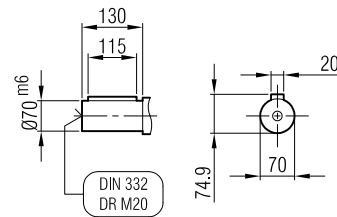
İRFPM 102
İRFPM 103



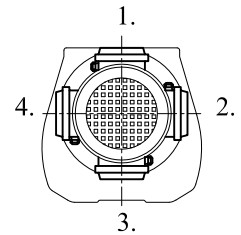
Ø350
(Opsiyonel / Optional / Opcional)



Ø400
(Opsiyonel / Optional / Opcional)



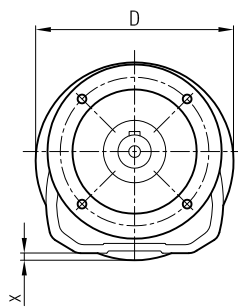
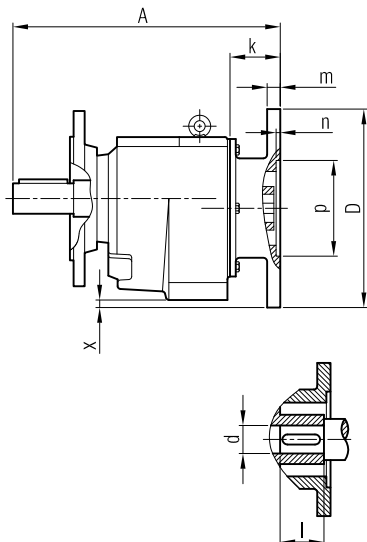
Terminal Box Positions
Posiciones de la caja de terminales



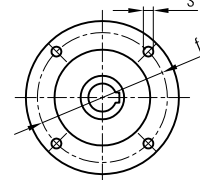
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 |
|----|--------|--------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| A | 903 | 923 | 994 | 1032 | 1111 | 1155 | 1168 | 1206 | 1326 | 1351 | 1376 |
| A1 | 981 | 1006 | 1094 | 1132 | 1226 | 1270 | 1288 | 1326 | 1446 | 1471 | 1496 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 |
| X | - | - | - | - | - | - | - | - | - | - | - |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

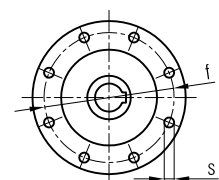
İRFP 102
İRFP 103



≤ 200 B5 Tip/Type/Typ



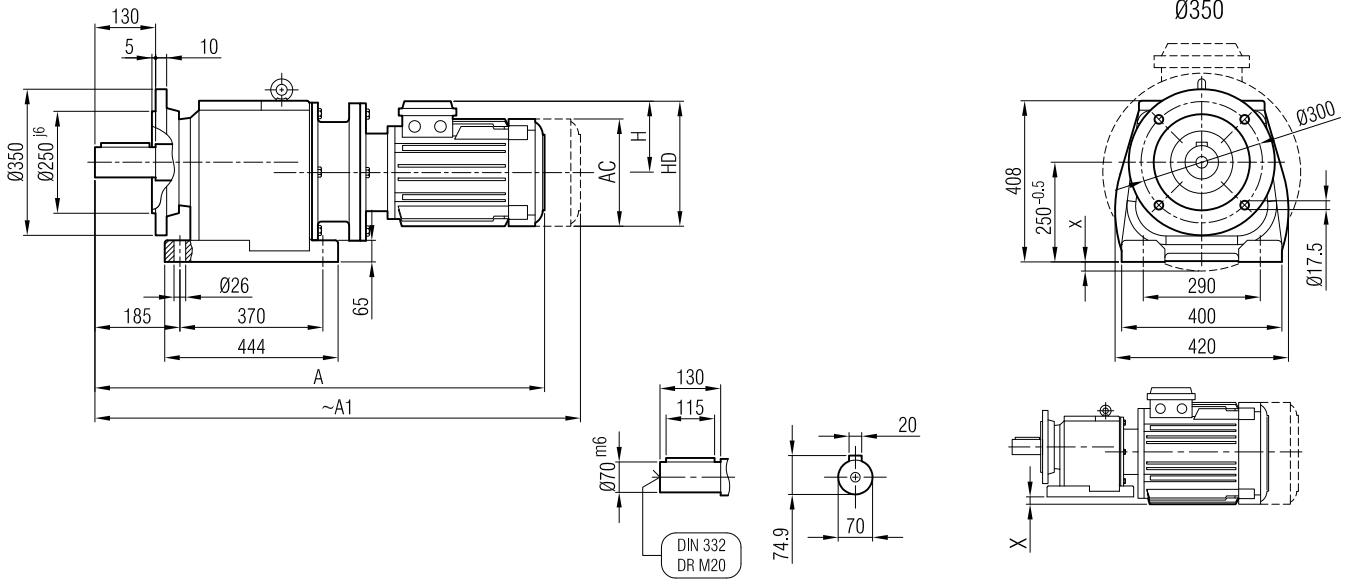
≥ 225 B5 Tip/Type/Typ



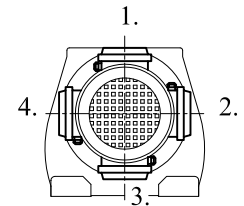
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 689 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 696 | 350 | 400 | 450 | M16 | 166 | 24 | 6.5 | 60 | 140 | 64.4 | 18 | - |



İRAFPM 102
İRAFPM 103



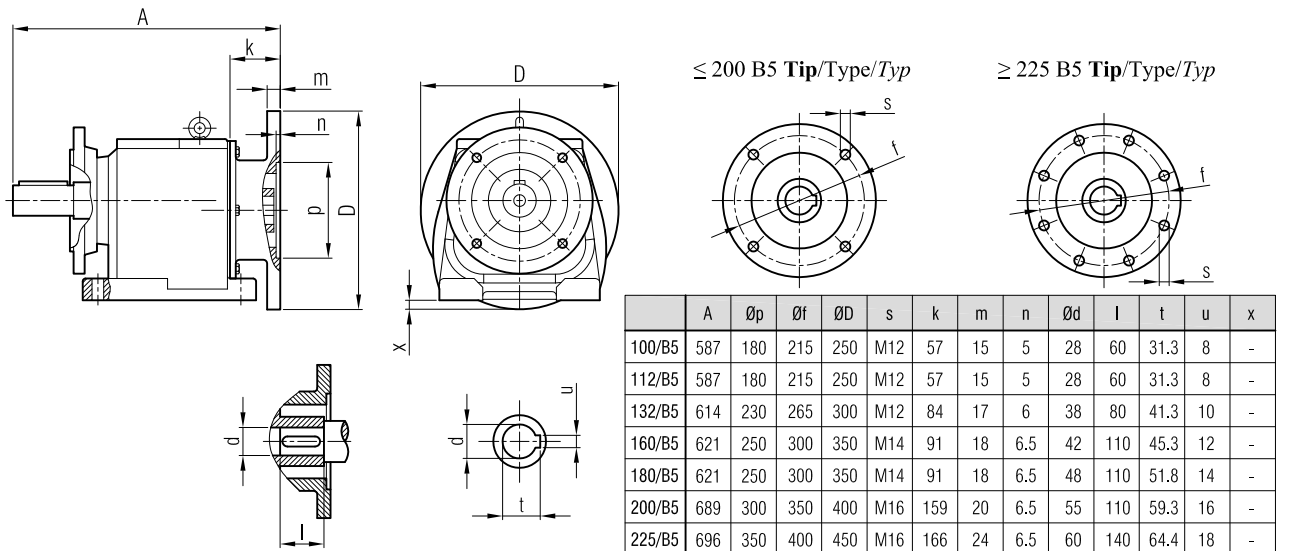
Terminal Box Positions
Posiciones de la caja de terminales



| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 |
|----|--------|--------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| A | 903 | 923 | 994 | 1032 | 1111 | 1155 | 1168 | 1206 | 1326 | 1351 | 1376 |
| A1 | 981 | 1006 | 1094 | 1132 | 1226 | 1270 | 1288 | 1326 | 1446 | 1471 | 1496 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 |
| x | - | - | - | - | - | - | - | - | - | - | - |

İRAFP 102
İRAFP 103

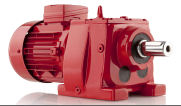
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno



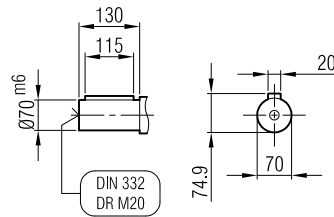
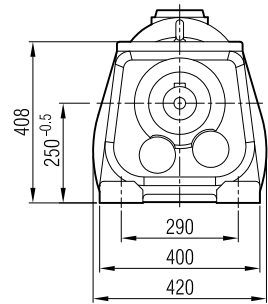
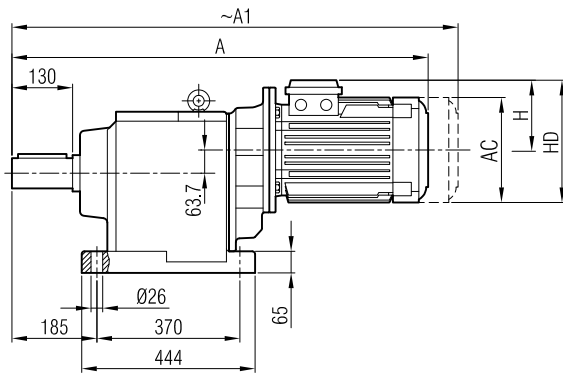
≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

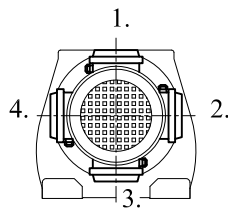
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 | - |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 689 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 696 | 350 | 400 | 450 | M16 | 166 | 24 | 6.5 | 60 | 140 | 64.4 | 18 | - |



İRAM 104



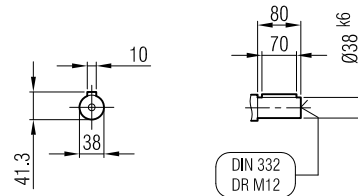
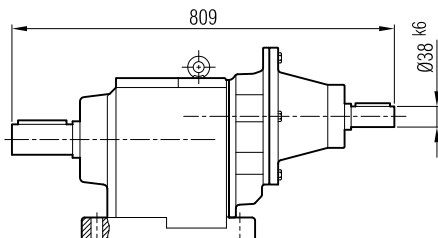
Terminal Box Positions
Posiciones de la caja de terminales



| | 80 | 90 S | 90 L | 100 | | | |
|----------------|-----|------|------|------|--|--|--|
| A | 842 | 870 | 895 | 935 | | | |
| A ₁ | 911 | 936 | 961 | 1013 | | | |
| H | 118 | 126 | 126 | 134 | | | |
| HD | 198 | 216 | 216 | 234 | | | |
| AC | 156 | 176 | 176 | 194 | | | |

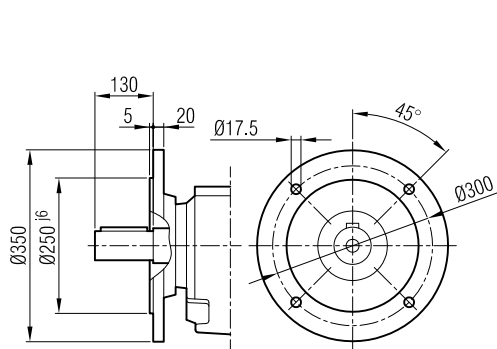
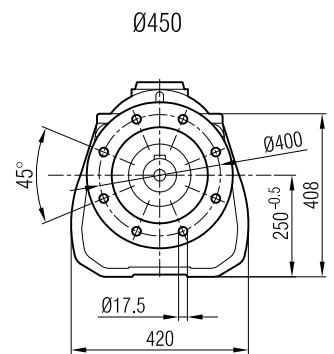
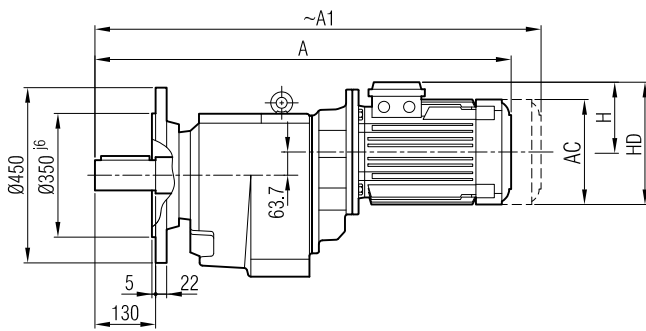
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 104

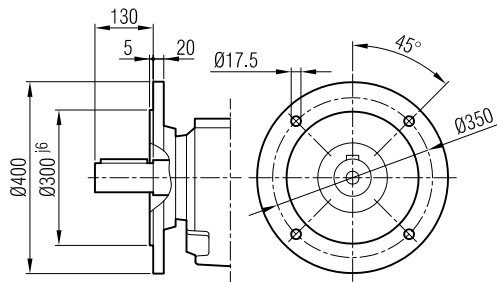




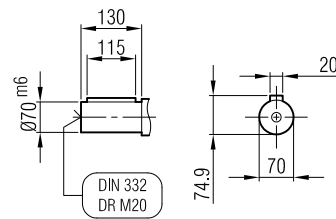
İRFM 104



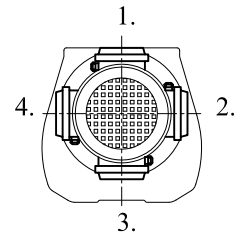
Ø350
(Opsiyonel / Optional / Opcional)



Ø400
(Opsiyonel / Optional / Opcional)



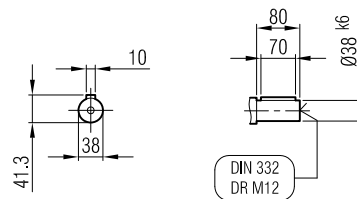
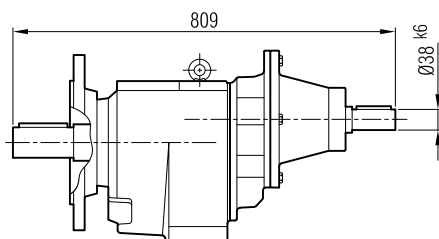
Terminal Box Positions
Posiciones de la caja de terminales

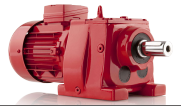


| | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|------|------|------|--|--|
| A | 842 | 870 | 895 | 935 | | |
| A ₁ | 911 | 936 | 961 | 1013 | | |
| H | 118 | 126 | 126 | 134 | | |
| HD | 198 | 216 | 216 | 234 | | |
| AC | 156 | 176 | 176 | 194 | | |

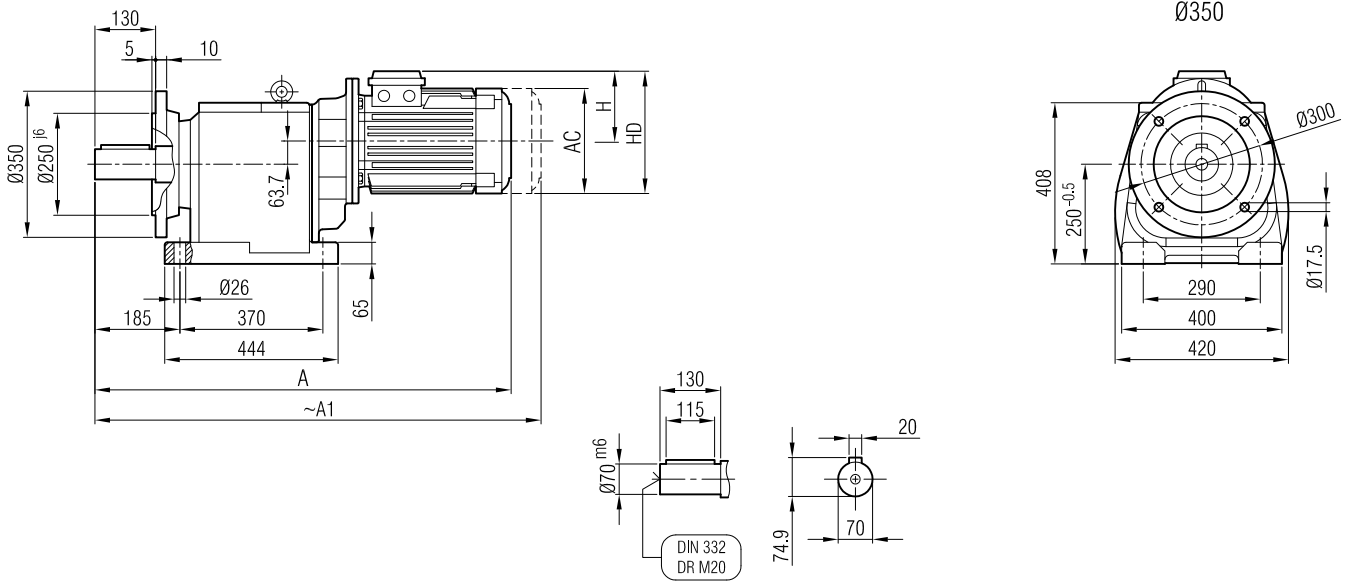
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 104

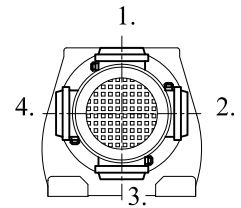




İRAF M 104



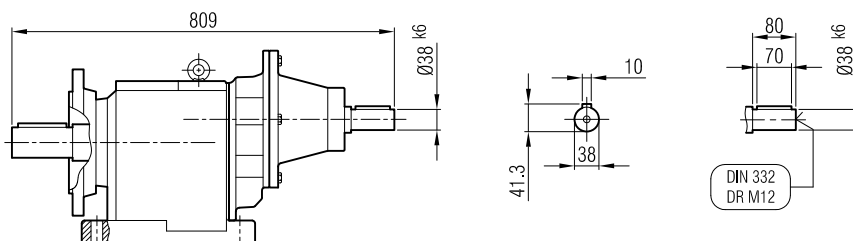
Terminal Box Positions
Posiciones de la caja de terminales

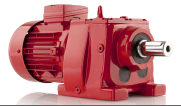


| | 80 | 90 S | 90 L | 100 | | |
|----------------|-----|------|------|------|--|--|
| A | 842 | 870 | 895 | 935 | | |
| A ₁ | 911 | 936 | 961 | 1013 | | |
| H | 118 | 126 | 126 | 134 | | |
| HD | 198 | 216 | 216 | 234 | | |
| AC | 156 | 176 | 176 | 194 | | |

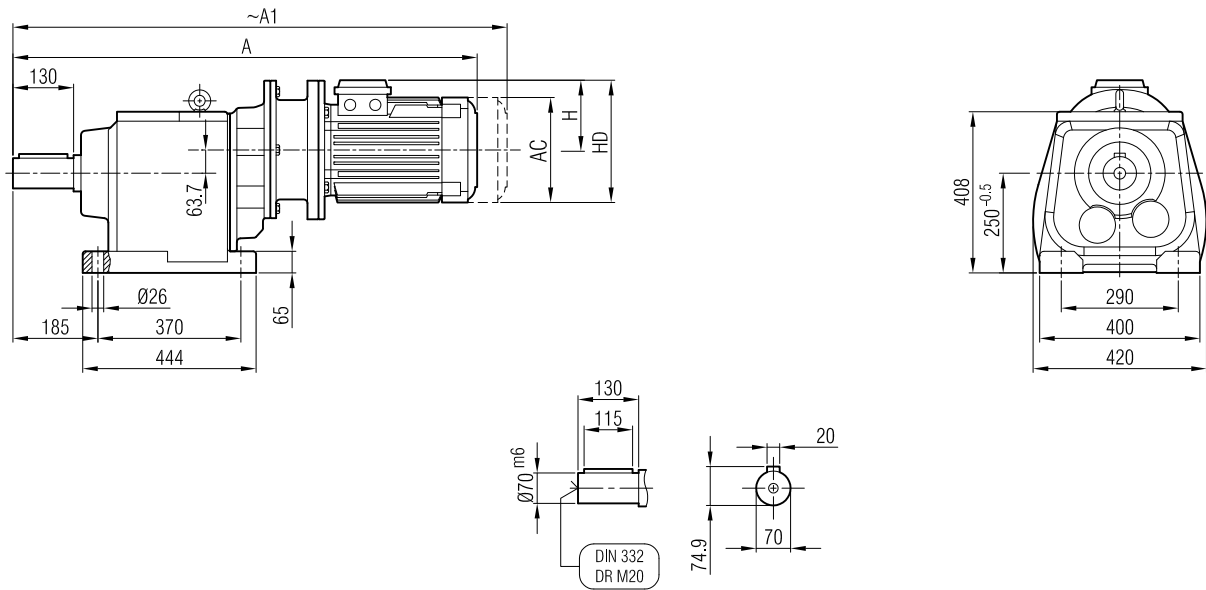
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 104

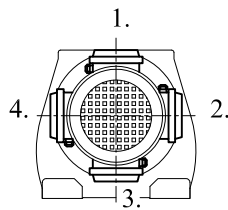




İRAPM 104



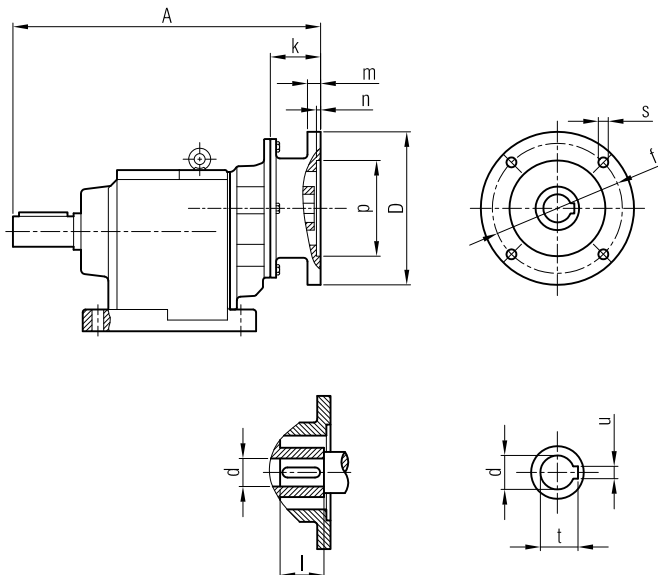
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 913 | 928 | 953 | 994 |
| A ₁ | 982 | 994 | 1019 | 1072 |
| H | 134 | 145 | 168 | 168 |
| HD | 234 | 257 | 300 | 300 |
| AC | 194 | 218 | 257 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

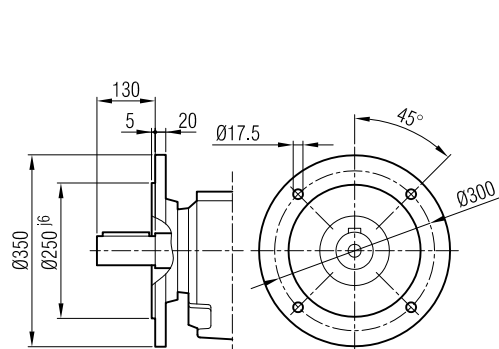
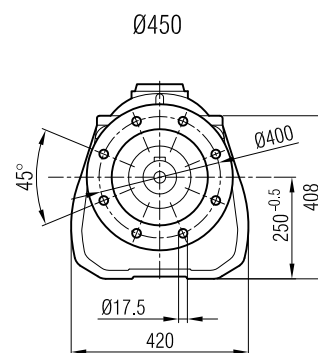
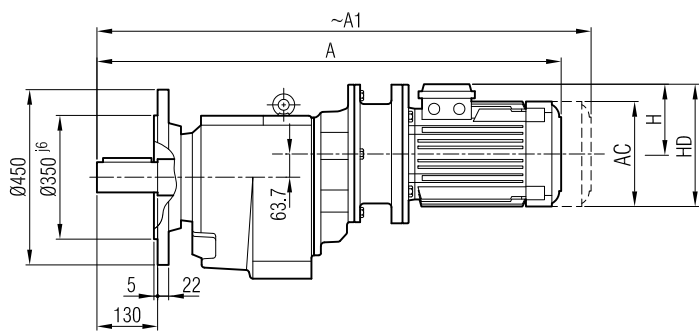
İRAP 104



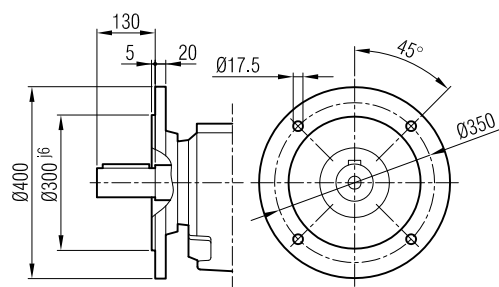
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



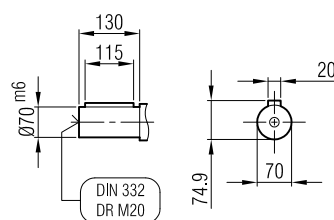
İRFPM 104



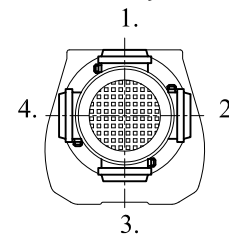
Ø350
(Opsiyonel / Optional / Opcional)



Ø400
(Opsiyonel / Optional / Opcional)



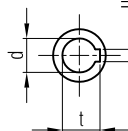
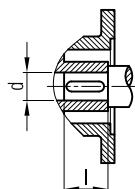
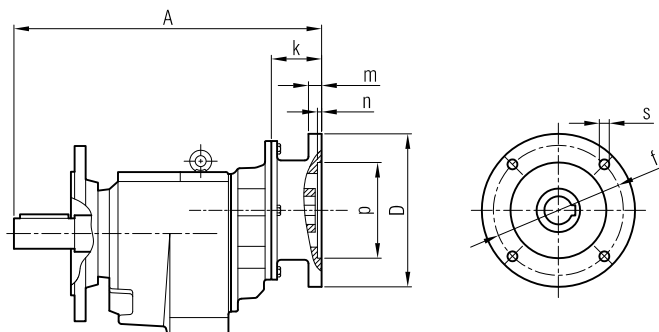
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 913 | 928 | 953 | 994 |
| A ₁ | 982 | 994 | 1019 | 1072 |
| H | 134 | 145 | 168 | 168 |
| HD | 234 | 257 | 300 | 300 |
| AC | 194 | 218 | 257 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

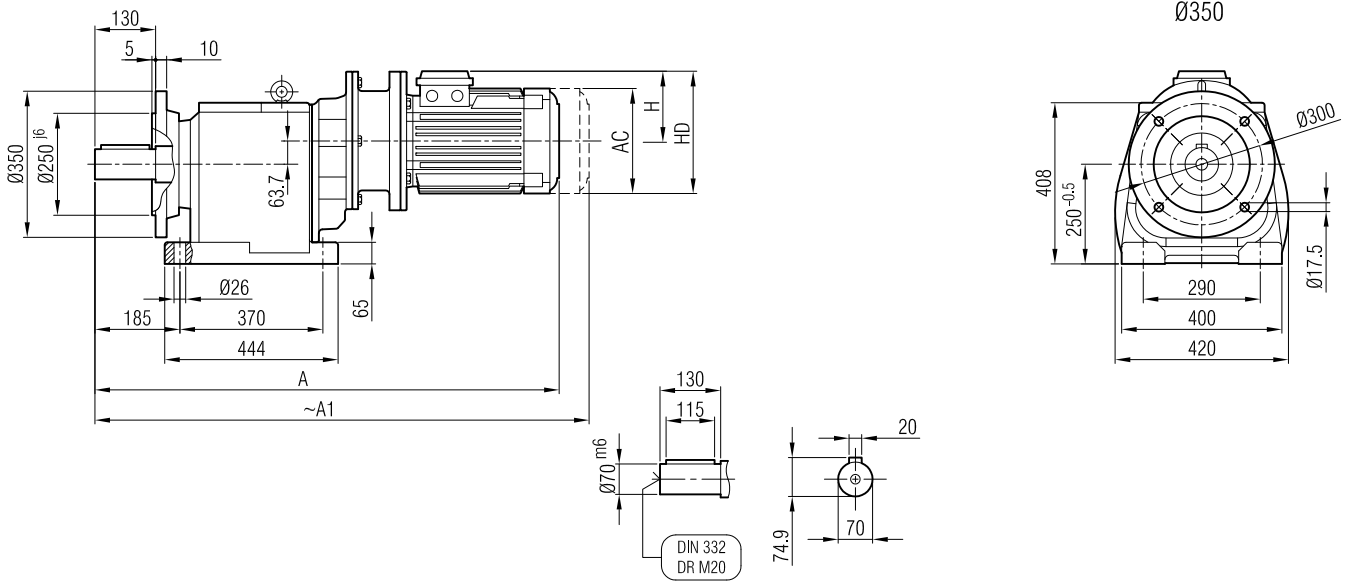
İRFPM 104



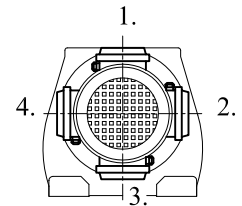
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAFPM 104



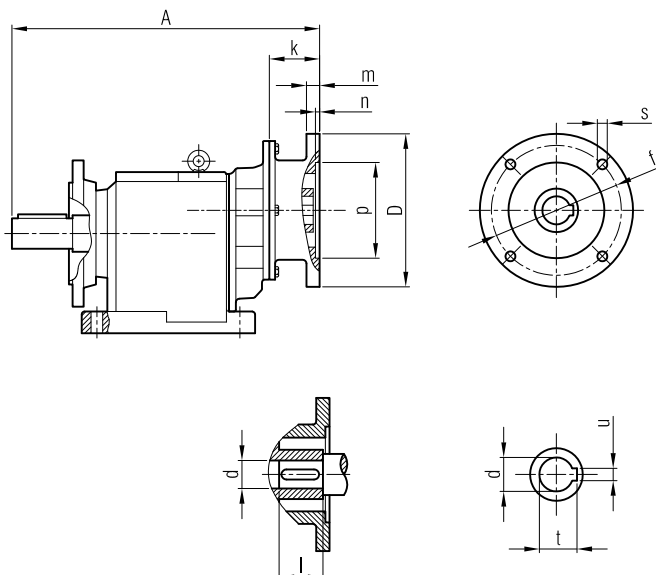
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|---------|---------|--------|
| A | 913 | 928 | 953 | 994 |
| A ₁ | 982 | 994 | 1019 | 1072 |
| H | 134 | 145 | 168 | 168 |
| HD | 234 | 257 | 300 | 300 |
| AC | 194 | 218 | 257 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

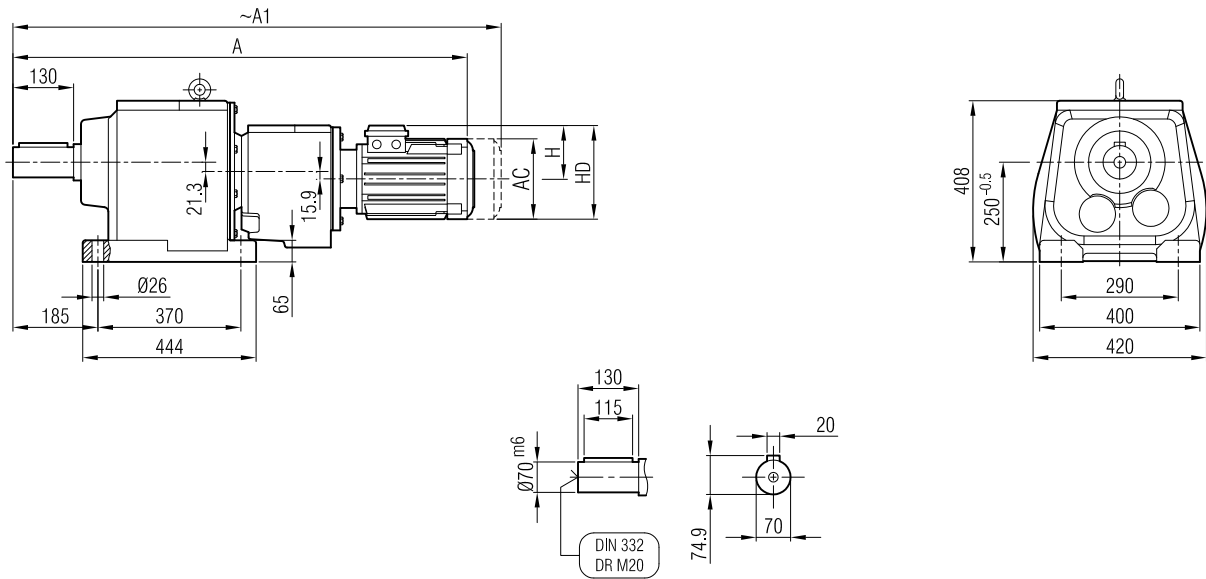
İRAFP 104



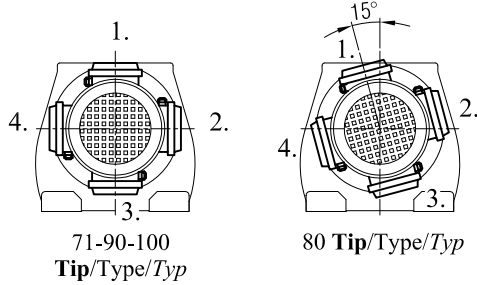
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 80/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 448 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 456 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAM 102 İR 72 / İRAM 102 İR 73
İRAM 103 İR 72 / İRAM 103 İR 73



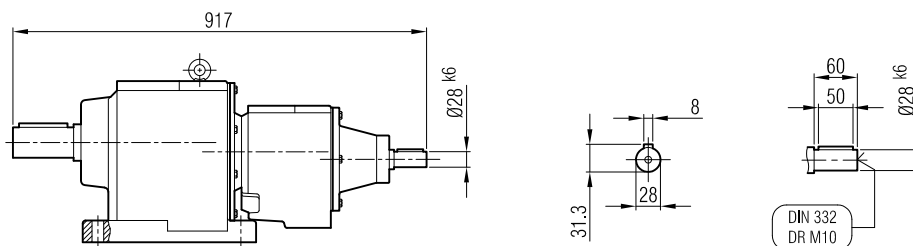
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|------|------|------|------|------|--|--|
| A | 955 | 985 | 1015 | 1040 | 1081 | | |
| A ₁ | 1006 | 1054 | 1081 | 1106 | 1159 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |

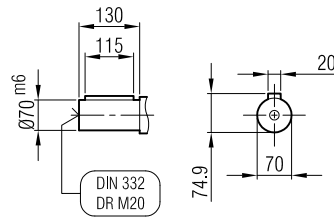
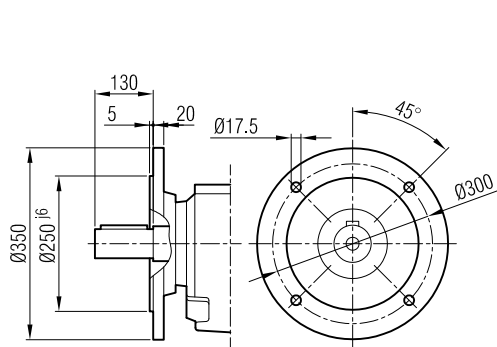
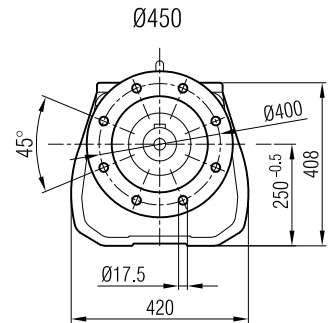
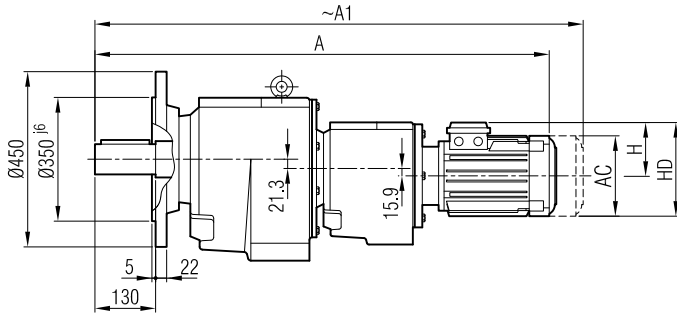
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 102 İR 72 / İRA 102 İR 73
İRA 103 İR 72 / İRA 103 İR 73

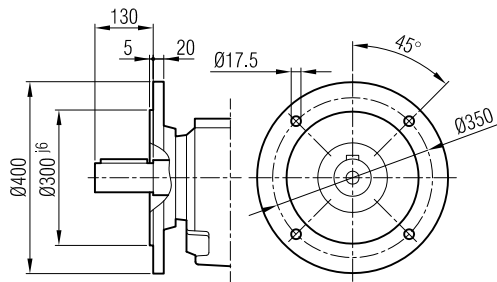




İRFM 102 İR 72 / İRFM 102 İR 73
İRFM 103 İR 72 / İRFM 103 İR 73

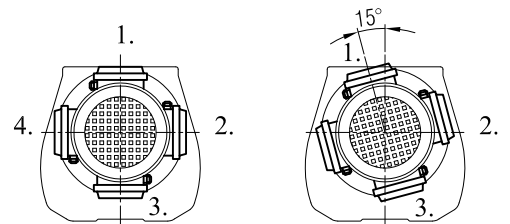


Ø350
(Opsiyonel / Optional / Opcional)



Ø400
(Opsiyonel / Optional / Opcional)

Terminal Box Positions
Posiciones de la caja de terminales



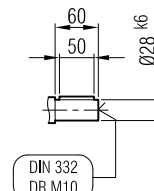
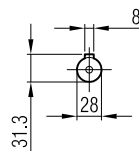
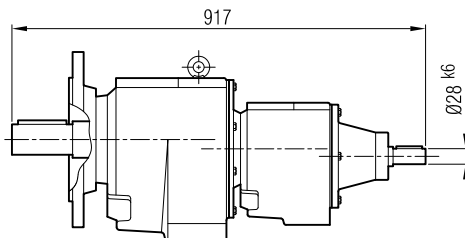
71-90-100
Tip/Type/Typ

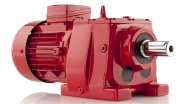
80 Tip/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|------|------|------|------|------|--|--|
| A | 955 | 985 | 1015 | 1040 | 1081 | | |
| A ₁ | 1006 | 1054 | 1081 | 1106 | 1159 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |

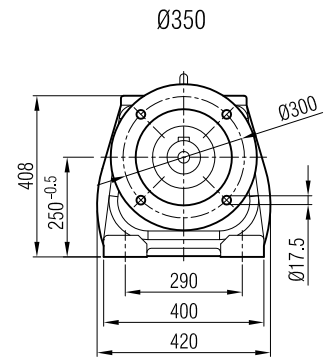
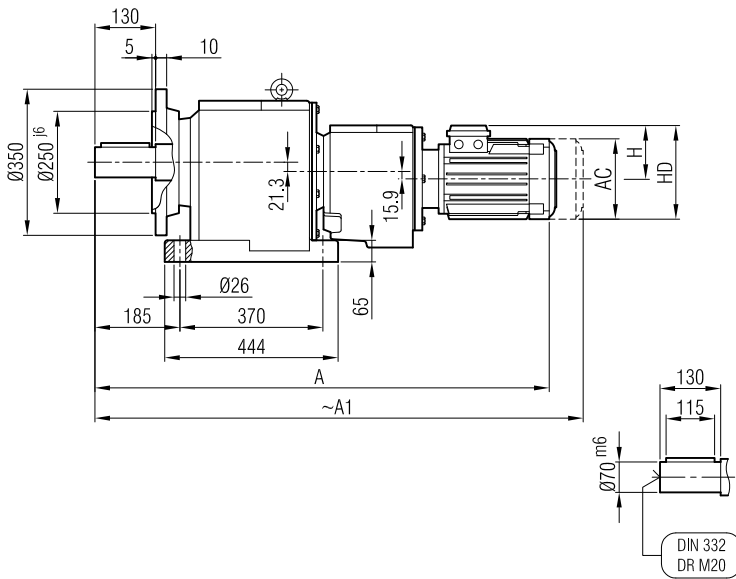
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 102 İR 72 / İRF 102 İR 73
İRF 103 İR 72 / İRF 103 İR 73

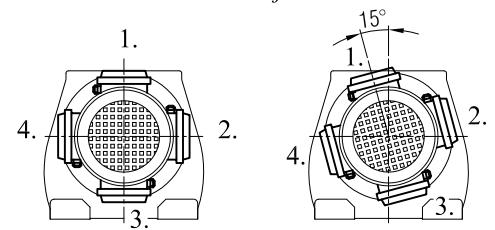




İRAFM 102 İR 72 / İRAFM 102 İR 73
İRAFM 103 İR 72 / İRAFM 103 İR 73



Terminal Box Positions
Posiciones de la caja de terminales



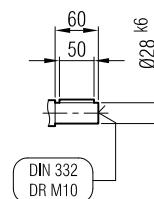
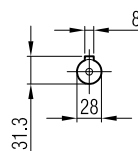
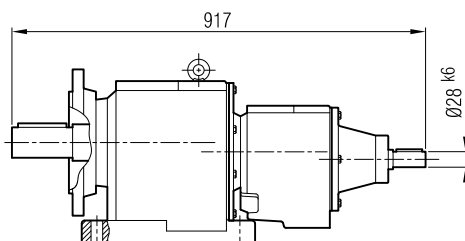
71-90-100
Tip/Type/Typ

80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | 100 | | |
|----------------|------|------|------|------|------|--|--|
| A | 955 | 985 | 1015 | 1040 | 1081 | | |
| A ₁ | 1006 | 1054 | 1081 | 1106 | 1159 | | |
| H | 111 | 118 | 126 | 126 | 134 | | |
| HD | 182 | 198 | 216 | 216 | 234 | | |
| AC | 138 | 156 | 176 | 176 | 194 | | |

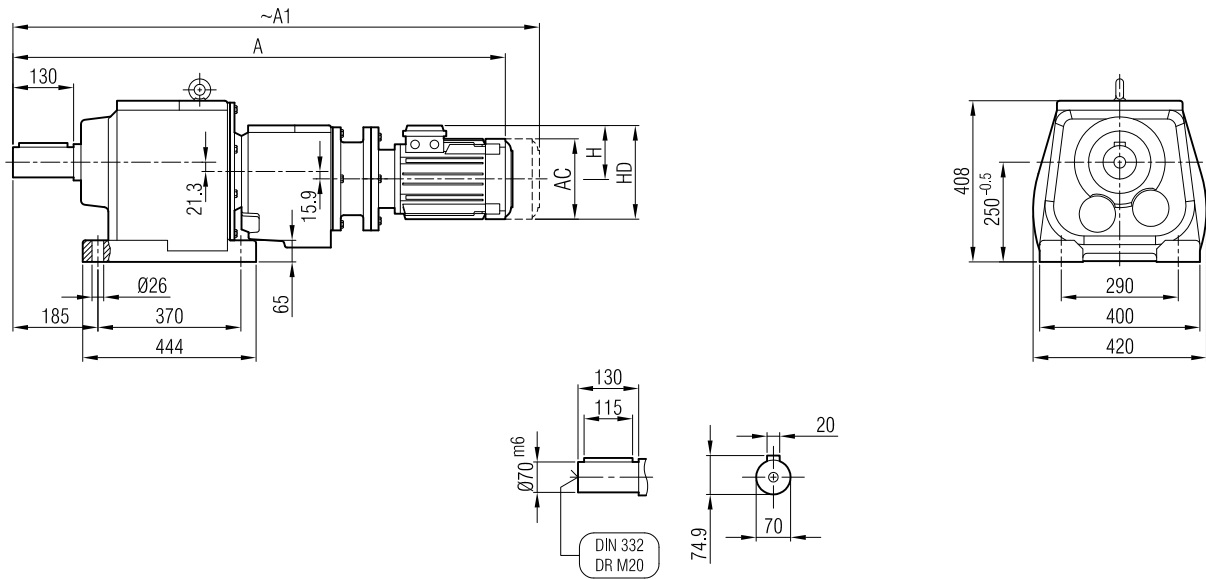
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 102 İR 72 / İRAF 102 İR 73
İRAF 103 İR 72 / İRAF 103 İR 73

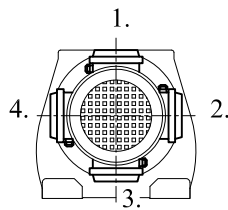




İRAPM 102 İR 72 / İRAPM 102 İR 73
İRAPM 103 İR 72 / İRAPM 103 İR 73



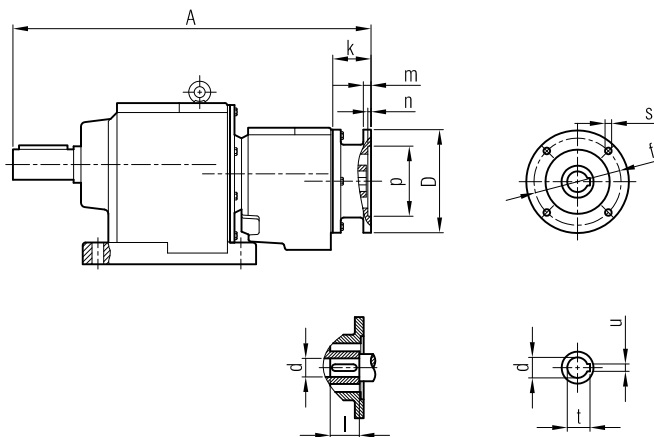
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|-------|---------|---------|--------|
| A | 1031 | 1064 | 1079 | 1104 | 1141 |
| A ₁ | 1082 | 1133 | 1145 | 1170 | 1219 |
| H | 111 | 118 | 126 | 126 | 134 |
| HD | 182 | 198 | 216 | 216 | 234 |
| AC | 138 | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

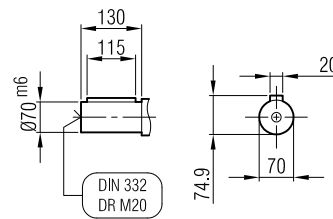
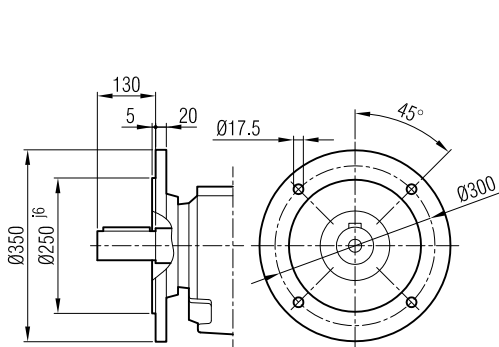
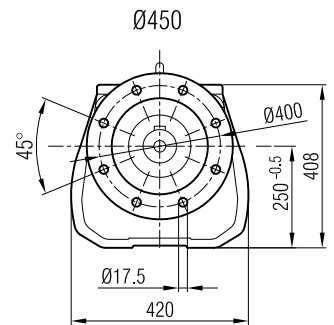
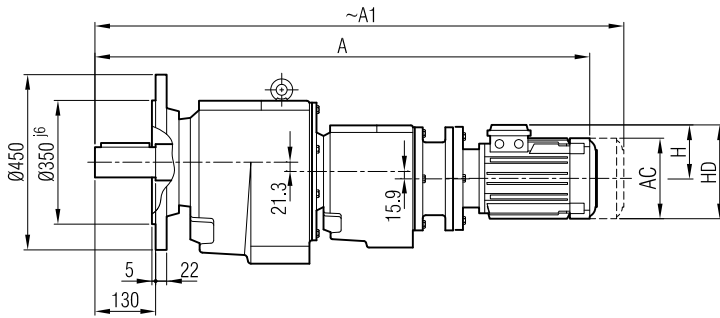
İRAP 102 İR 72 / İRAP 102 İR 73
İRAP 103 İR 72 / İRAP 103 İR 73



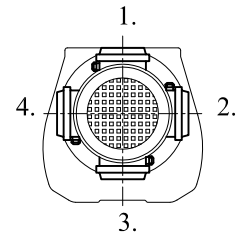
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 808 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 825 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |



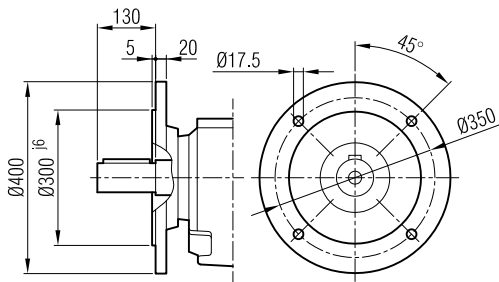
İRFPM 102 İR 72 / İRFPM 102 İR 73
İRFPM 103 İR 72 / İRFPM 103 İR 73



Terminal Box Positions
Posiciones de la caja de terminales



Ø350
(Opsiyonel / Optional / Opcional)

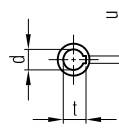
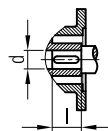
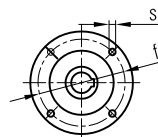
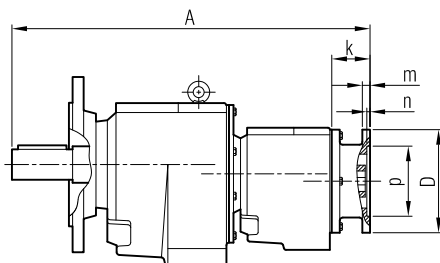


Ø400
(Opsiyonel / Optional / Opcional)

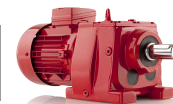
| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|-------|---------|---------|--------|
| A | 1031 | 1064 | 1079 | 1104 | 1141 |
| A ₁ | 1082 | 1133 | 1145 | 1170 | 1219 |
| H | 111 | 118 | 126 | 126 | 134 |
| HD | 182 | 198 | 216 | 216 | 234 |
| AC | 138 | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

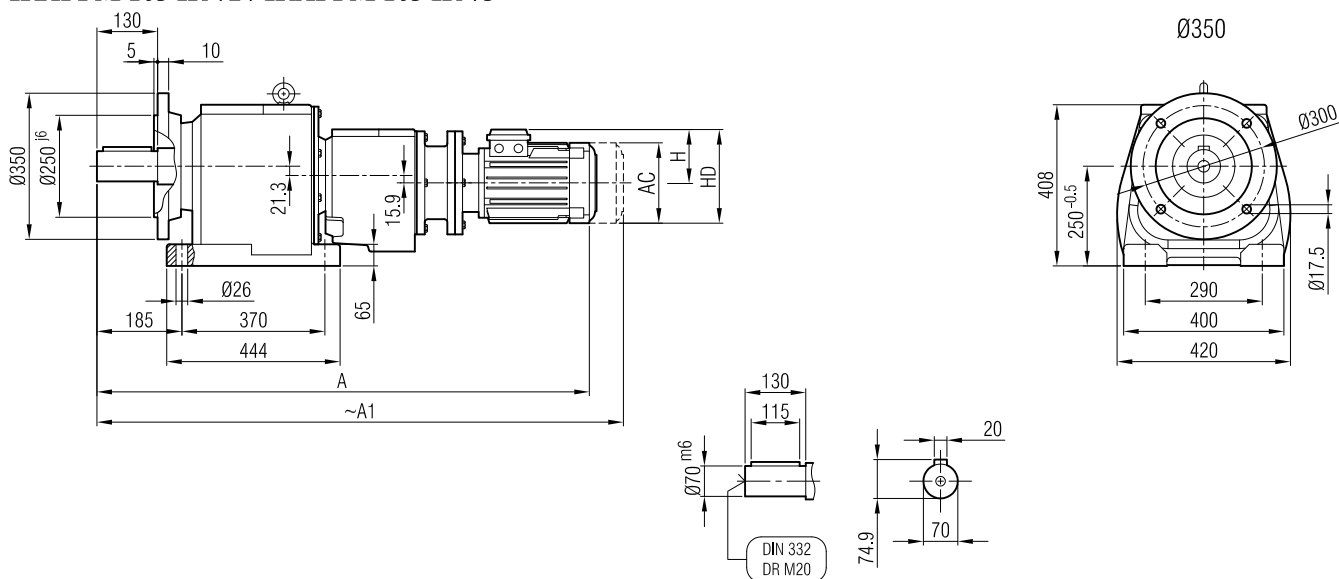
İRFP 102 İR 72 / İRFP 102 İR 73
İRFP 103 İR 72 / İRFP 103 İR 73



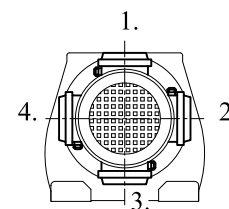
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 808 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 825 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAFPM 102 İR 72 / İRAFPM 102 İR 73
İRAFPM 103 İR 72 / İRAFPM 103 İR 73



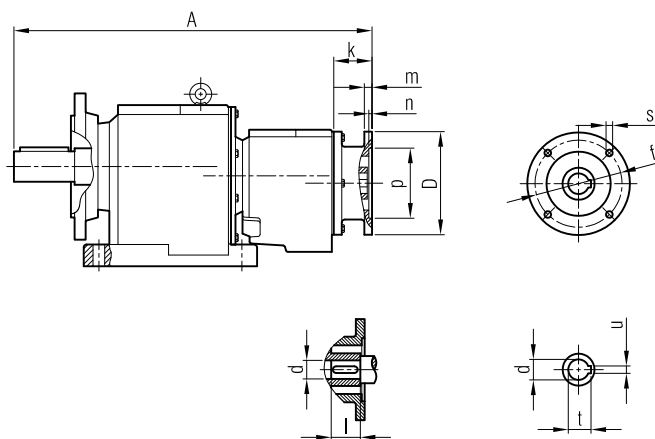
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |
|----------------|-------|-------|---------|---------|--------|
| A | 1031 | 1064 | 1079 | 1104 | 1141 |
| A ₁ | 1082 | 1133 | 1145 | 1170 | 1219 |
| H | 111 | 118 | 126 | 126 | 134 |
| HD | 182 | 198 | 216 | 216 | 234 |
| AC | 138 | 156 | 176 | 176 | 194 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

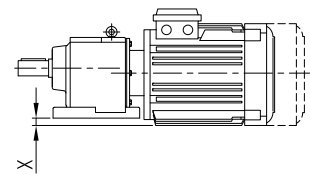
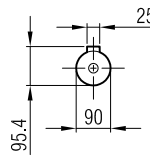
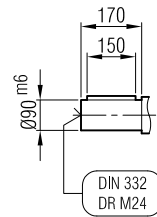
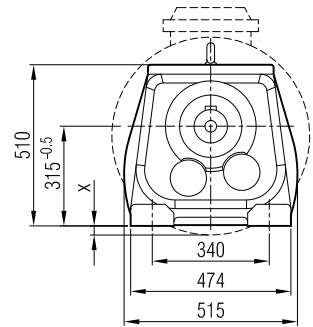
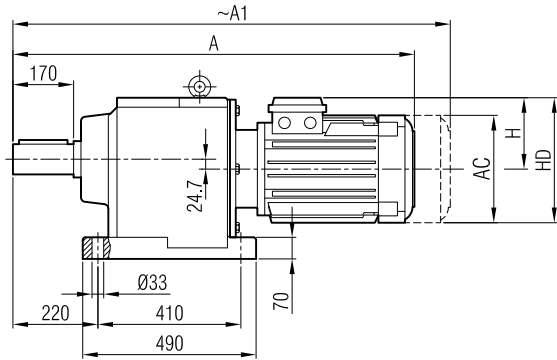
İRAFP 102 İR 72 / İRAFP 102 İR 73
İRAFP 103 İR 72 / İRAFP 103 İR 73



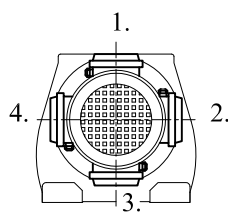
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 808 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 820 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 825 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |



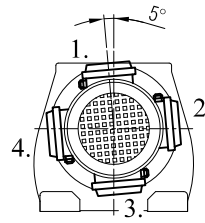
İRAM 122
İRAM 123



Terminal Box Positions
Posiciones de la caja de terminales



132-160-180-225
250 **Tip/Type/Typ**

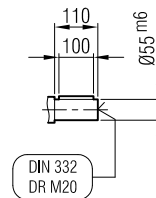
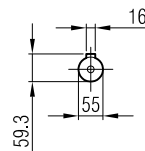
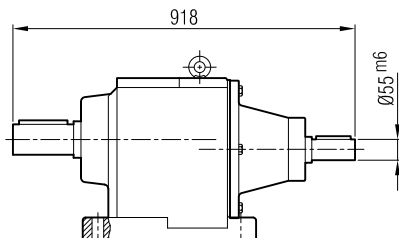


200 **Tip/Type/Typ**

| | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M |
|----|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| A | 962 | 1000 | 1080 | 1124 | 1139 | 1177 | 1228 | 1261 | 1286 | 1364 |
| A1 | 1062 | 1100 | 1195 | 1239 | 1259 | 1297 | 1348 | 1381 | 1406 | 1484 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

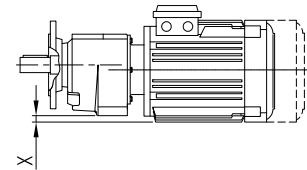
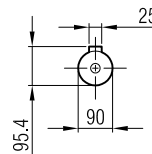
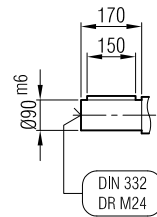
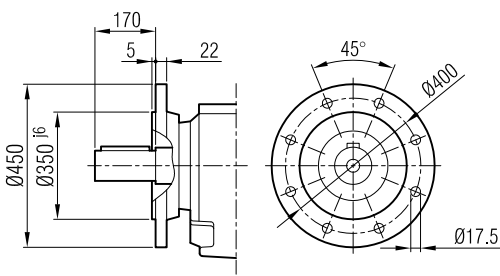
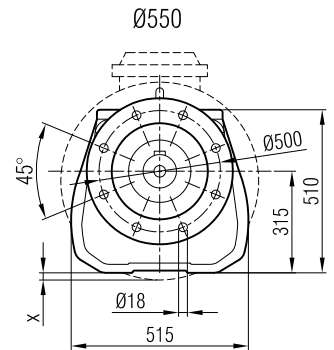
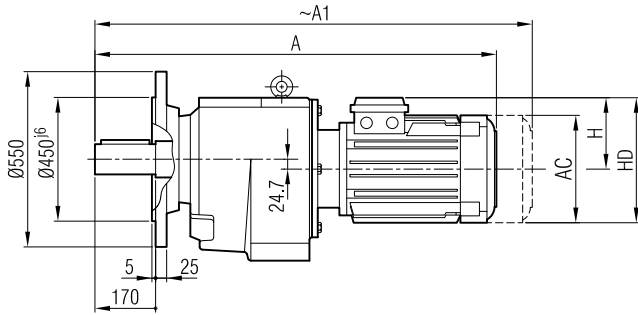
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 122
İRA 123



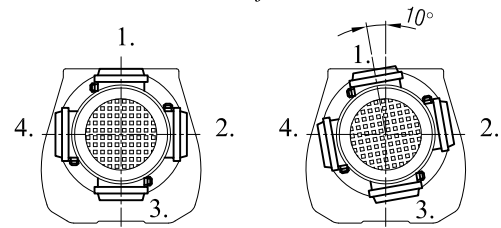


İRFM 122
İRFM 123



Ø450
(Opsiyonel / Optional / Opcional)

Terminal Box Positions
Posiciones de la caja de terminales

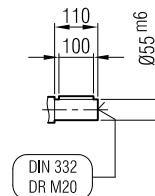
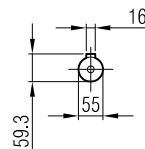
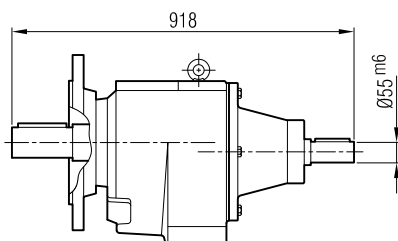


132-160-180-225
250 Tip/Type/Typ

200 Tip/Type/Typ

| | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M |
|----------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| A | 962 | 1000 | 1080 | 1124 | 1139 | 1177 | 1228 | 1261 | 1286 | 1364 |
| A ₁ | 1062 | 1100 | 1195 | 1239 | 1259 | 1297 | 1348 | 1381 | 1406 | 1484 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

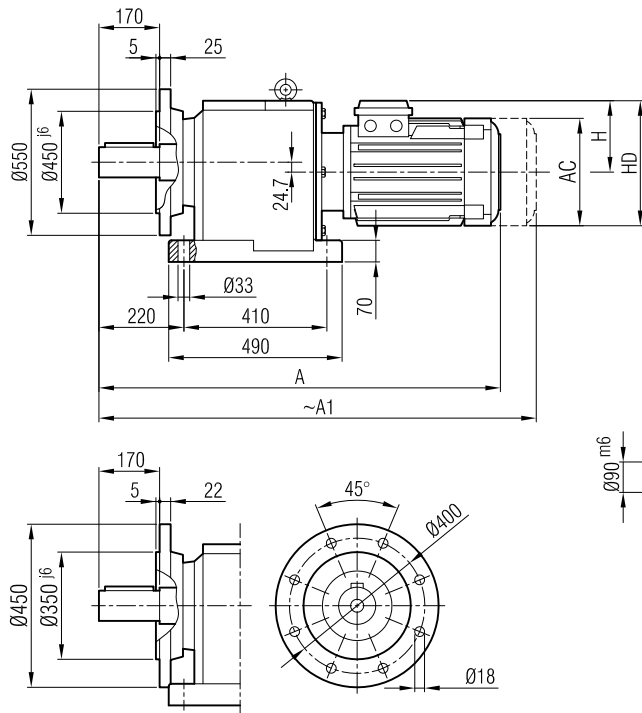
İRF 122
İRF 123



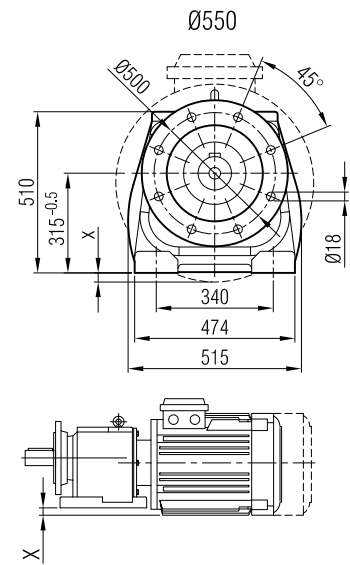
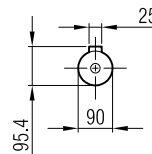
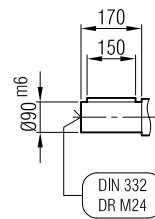
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



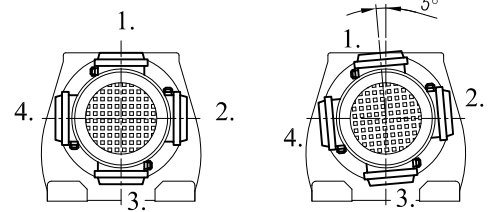
İRAF 122
İRAF 123



Ø450
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



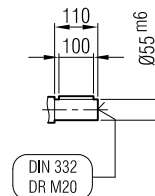
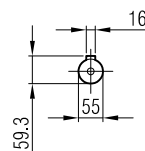
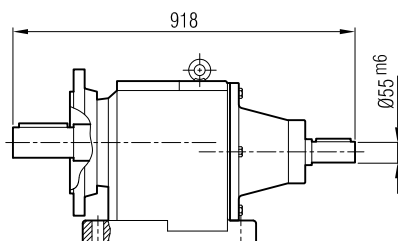
132-160-180-225
250 Tip/Type/Typ

200 Tip/Type/Typ

| | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M |
|----------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| A | 962 | 1000 | 1080 | 1124 | 1139 | 1177 | 1228 | 1261 | 1286 | 1364 |
| A ₁ | 1062 | 1100 | 1195 | 1239 | 1259 | 1297 | 1348 | 1381 | 1406 | 1484 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

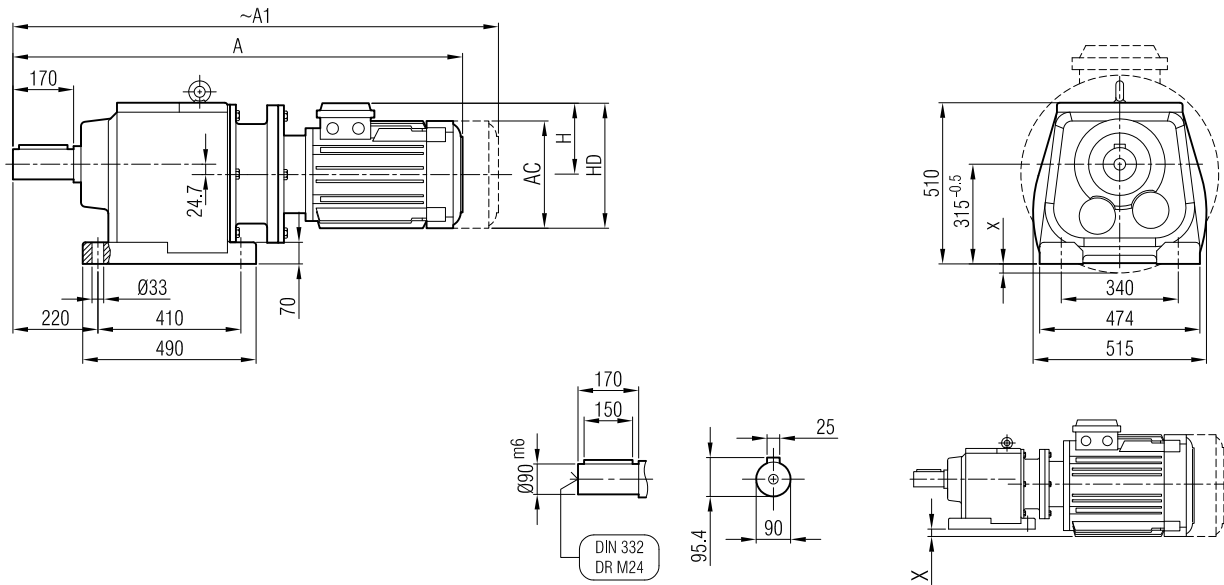
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 122
İRAF 123

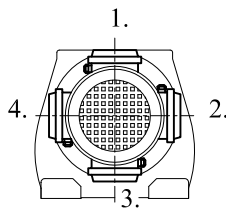




İRAPM 122
İRAPM 123



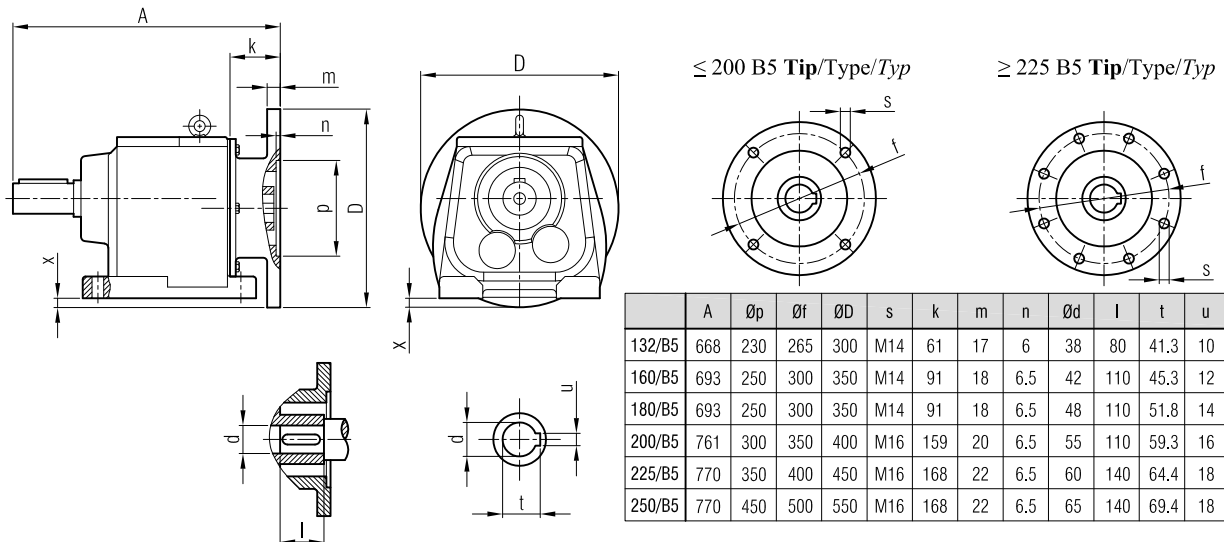
Terminal Box Positions
Posiciones de la caja de terminales



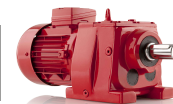
| | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 |
|----------------|----------|----------|----------|----------|----------|----------|--------|----------|----------|--------|
| A | 1048 | 1086 | 1183 | 1227 | 1240 | 1278 | 1398 | 1425 | 1450 | 1526 |
| A ₁ | 1148 | 1186 | 1298 | 1342 | 1360 | 1398 | 1518 | 1545 | 1570 | 1646 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

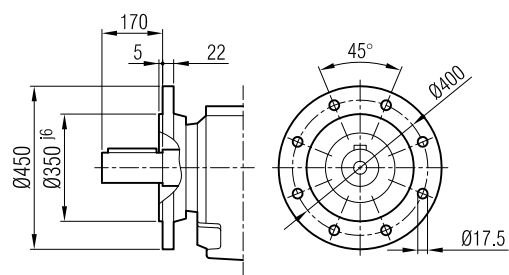
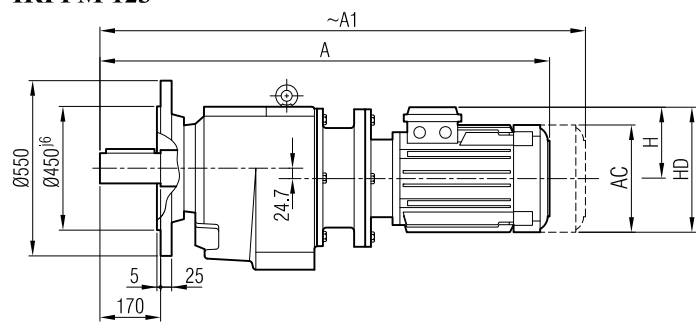
İRAP 122
İRAP 123



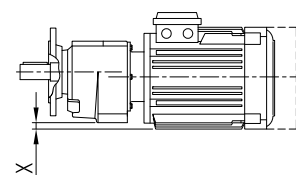
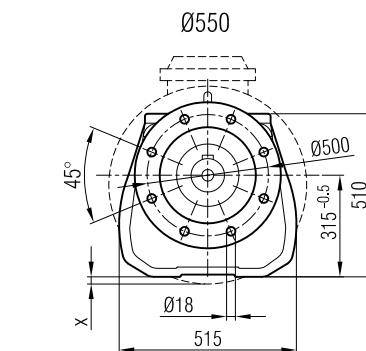
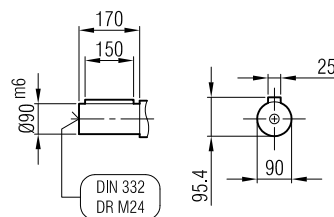
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 668 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 761 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 770 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 770 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |



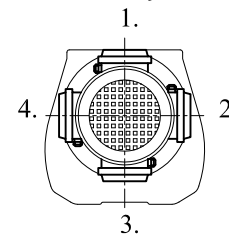
İRFPM 122
İRFPM 123



Ø450
(Opsiyonel / Optional / Opcional)



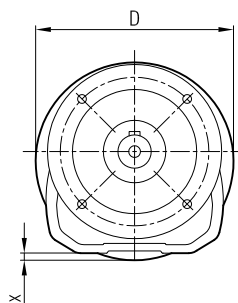
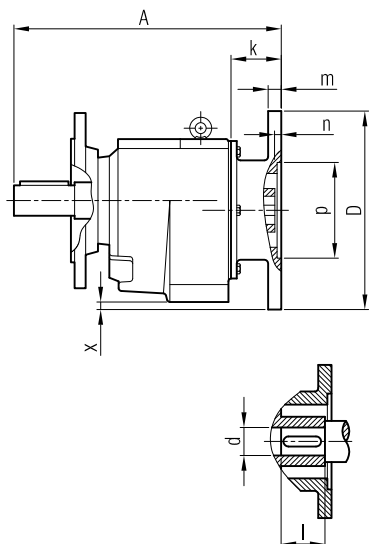
Terminal Box Positions
Posiciones de la caja de terminales



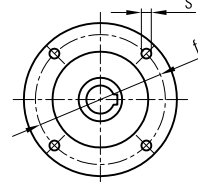
| | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 |
|----------------|----------|----------|----------|----------|----------|----------|--------|----------|----------|--------|
| A | 1048 | 1086 | 1183 | 1227 | 1240 | 1278 | 1398 | 1425 | 1450 | 1526 |
| A ₁ | 1148 | 1186 | 1298 | 1342 | 1360 | 1398 | 1518 | 1545 | 1570 | 1646 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

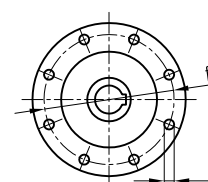
İRFP 122
İRFP 123



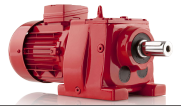
≤ 200 B5 **Tip/Type/Typ**



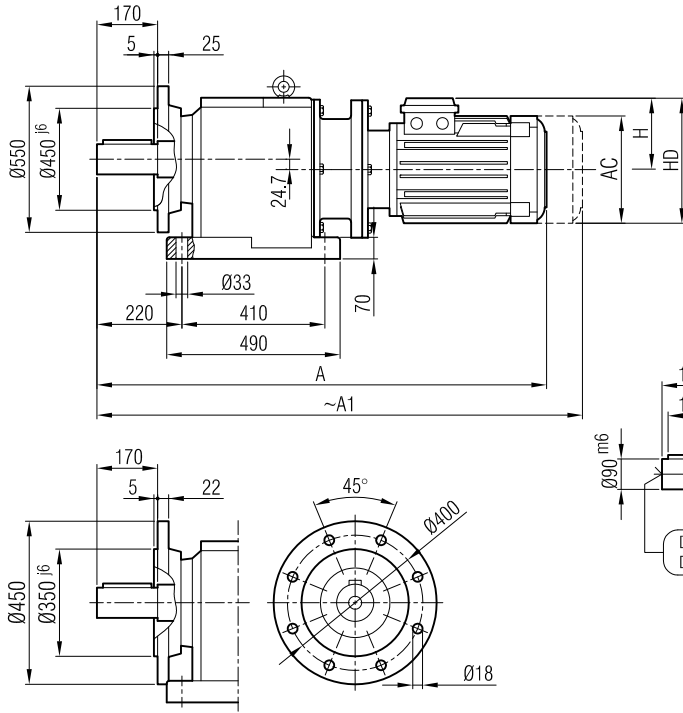
≥ 225 B5 **Tip/Type/Typ**



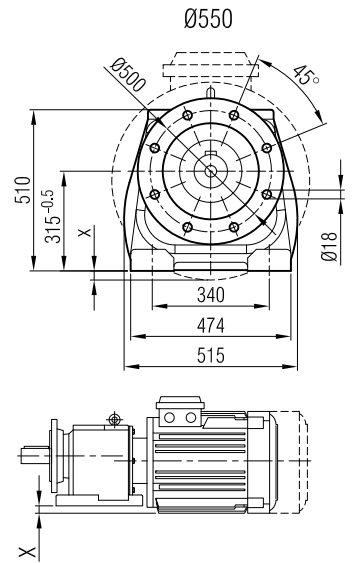
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 668 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 761 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 770 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 770 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |



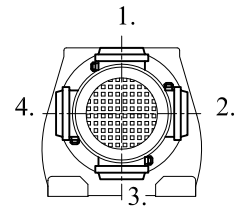
İRAFPM 122
İRAFPM 123



Ø450
(Opsiyonel / Optional / Opcional)



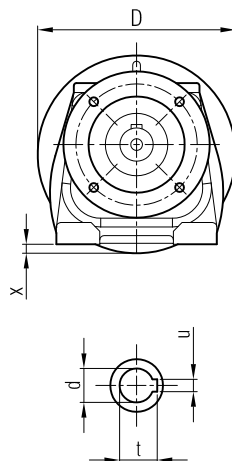
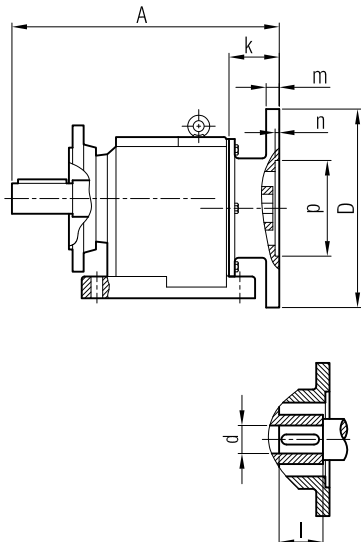
Terminal Box Positions
Posiciones de la caja de terminales



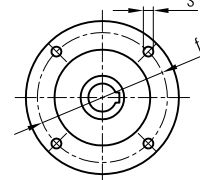
| | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 |
|----------------|----------|----------|----------|----------|----------|----------|--------|----------|----------|--------|
| A | 1048 | 1086 | 1183 | 1227 | 1240 | 1278 | 1398 | 1425 | 1450 | 1526 |
| A ₁ | 1148 | 1186 | 1298 | 1342 | 1360 | 1398 | 1518 | 1545 | 1570 | 1646 |
| H | 168 | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 |
| HD | 300 | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 |
| AC | 257 | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 |
| x | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

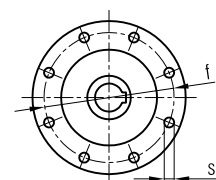
İRAFP 122
İRAFP 123



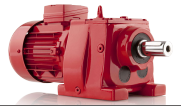
≤ 200 B5 Tip/Type/Typ



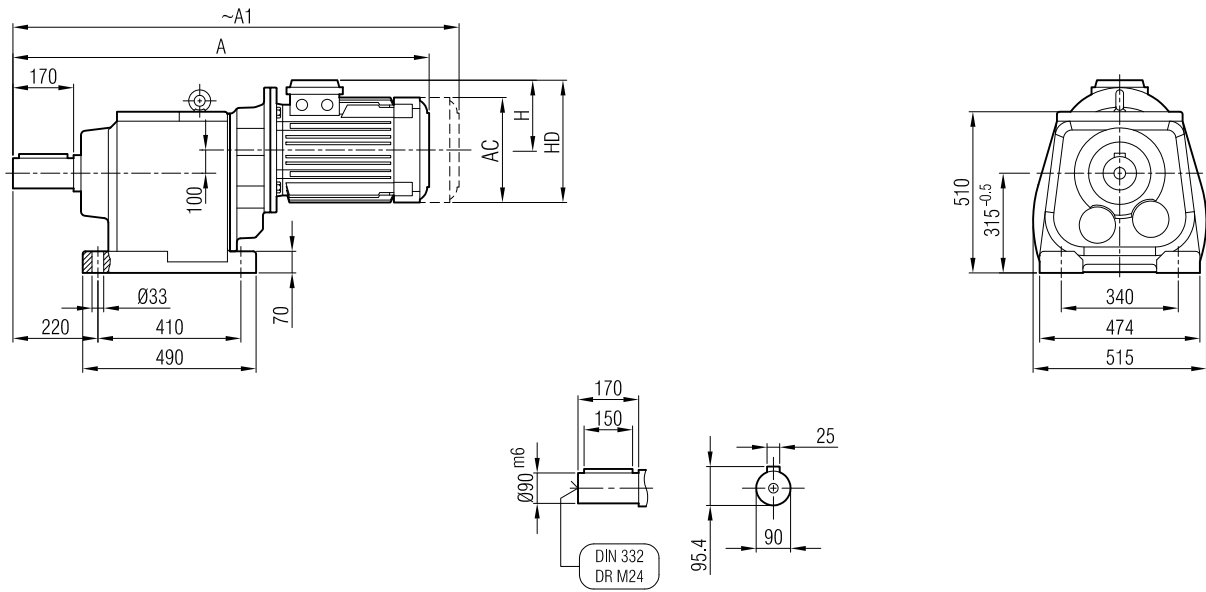
≥ 225 B5 Tip/Type/Typ



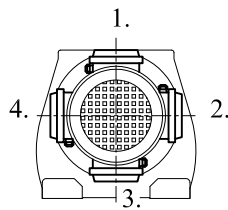
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 668 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 693 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 761 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 770 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 770 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |



İRAM 124



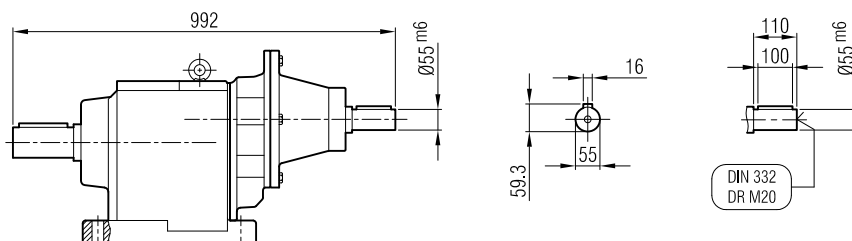
Terminal Box Positions
Posiciones de la caja de terminales

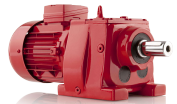


| | 100 | 112 | 132 S | 132 M | | | |
|----------------|------|------|-------|-------|--|--|--|
| A | 1033 | 1053 | 1094 | 1132 | | | |
| A ₁ | 1111 | 1136 | 1194 | 1232 | | | |
| H | 134 | 145 | 168 | 168 | | | |
| HD | 234 | 257 | 300 | 300 | | | |
| AC | 194 | 218 | 257 | 257 | | | |

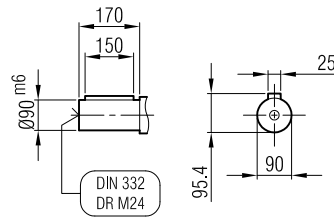
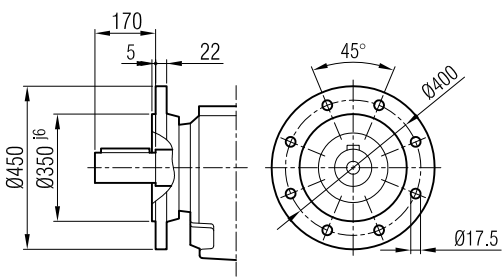
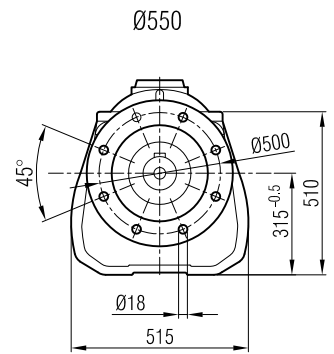
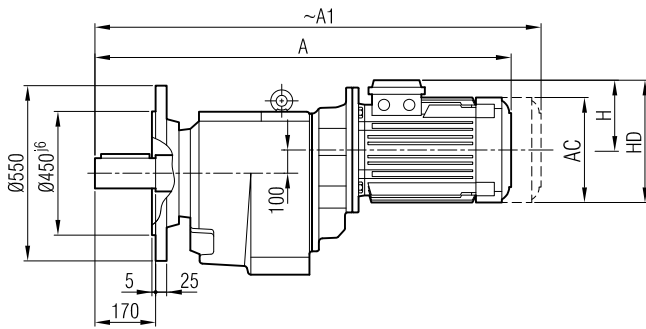
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 124



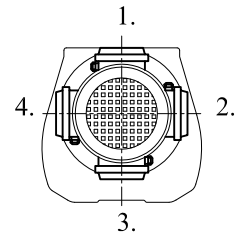


İRFM 124



Ø450
(Opsiyonel / Optional / Opcional)

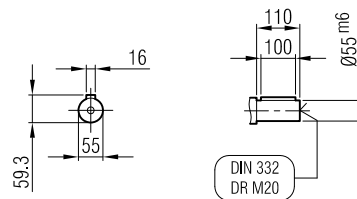
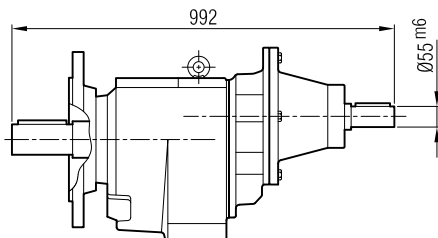
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | | |
|----------------|------|------|-------|-------|--|--|
| A | 1033 | 1053 | 1094 | 1132 | | |
| A ₁ | 1111 | 1136 | 1194 | 1232 | | |
| H | 134 | 145 | 168 | 168 | | |
| HD | 234 | 257 | 300 | 300 | | |
| AC | 194 | 218 | 257 | 257 | | |

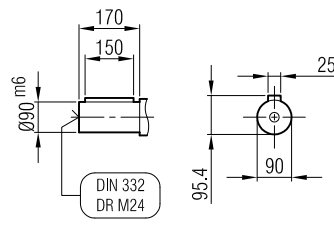
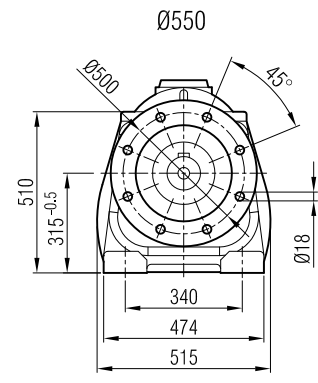
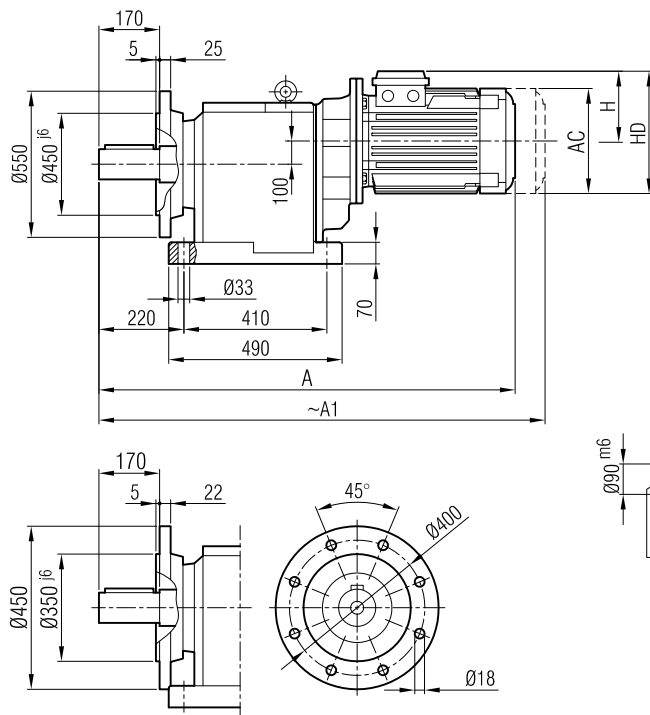
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRF 124



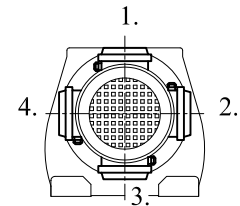


İRAF124



Ø450
(Opsiyonel / Optional / Opcional)

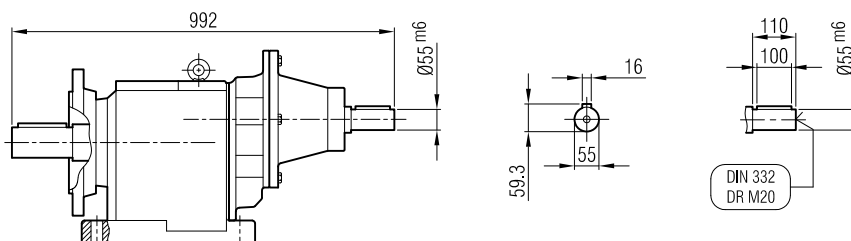
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | | |
|----------------|------|------|-------|-------|--|--|
| A | 1033 | 1053 | 1094 | 1132 | | |
| A ₁ | 1111 | 1136 | 1194 | 1232 | | |
| H | 134 | 145 | 168 | 168 | | |
| HD | 234 | 257 | 300 | 300 | | |
| AC | 194 | 218 | 257 | 257 | | |

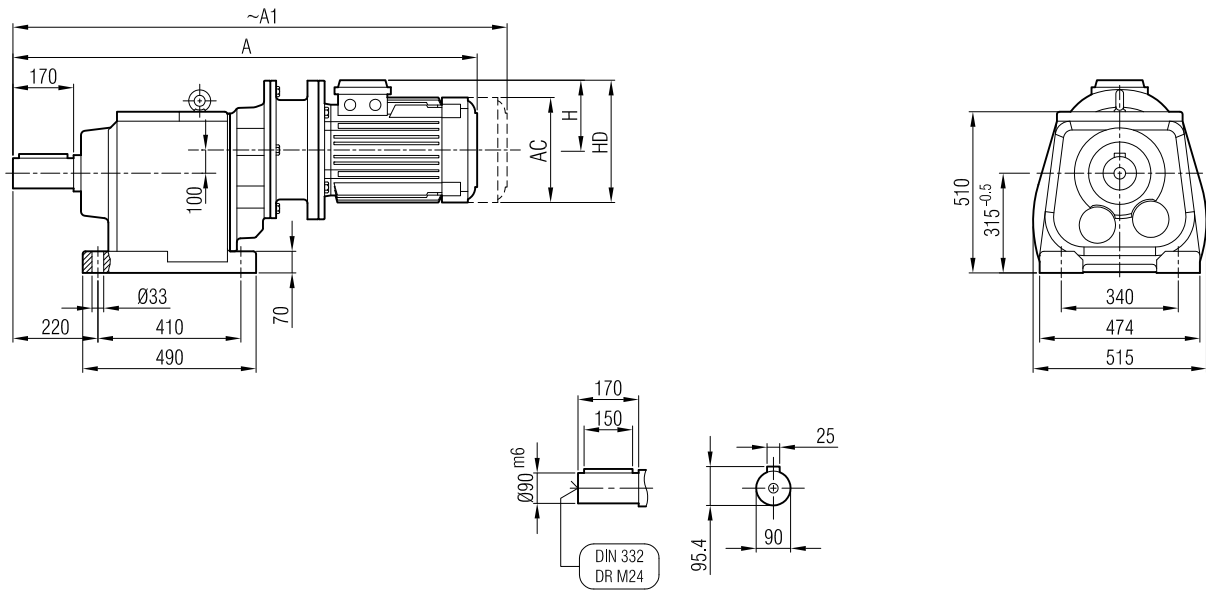
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRAF 124

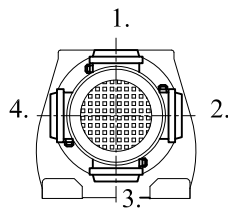




İRAPM 124



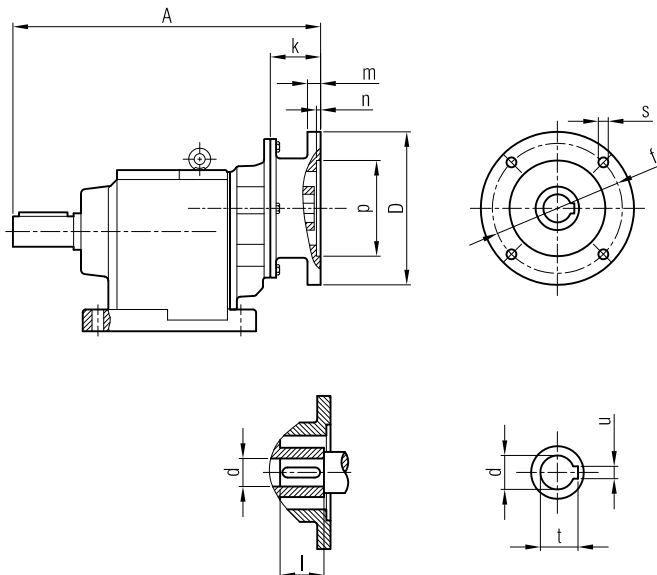
Terminal Box Positions
Posiciones de la caja de terminales



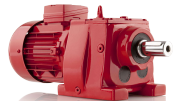
| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----|---------|---------|--------|--------|----------|----------|
| A | 1033 | 1058 | 1095 | 1115 | 1186 | 1224 |
| A1 | 1099 | 1124 | 1173 | 1198 | 1286 | 1324 |
| H | 145 | 168 | 220 | 220 | 241 | 241 |
| HD | 257 | 300 | 380 | 380 | 421 | 421 |
| AC | 218 | 257 | 310 | 310 | 348 | 348 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

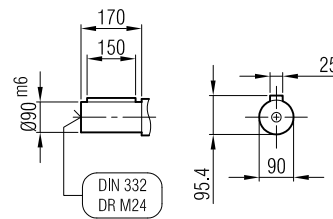
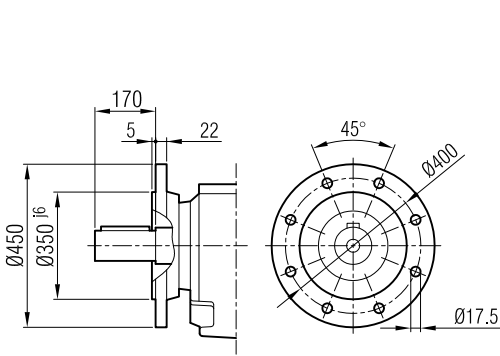
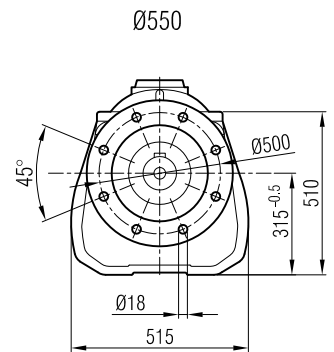
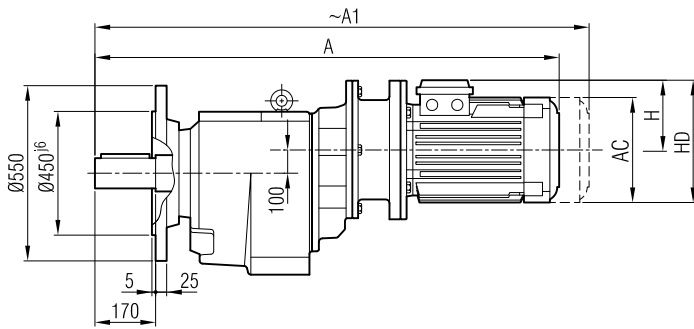
İRAPM 124



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 90/B5 | 587 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |

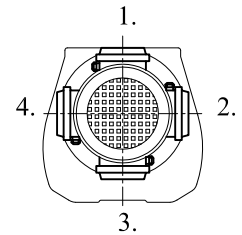


İRFPM 124



Ø450
(Opsiyonel / Optional / Opcional)

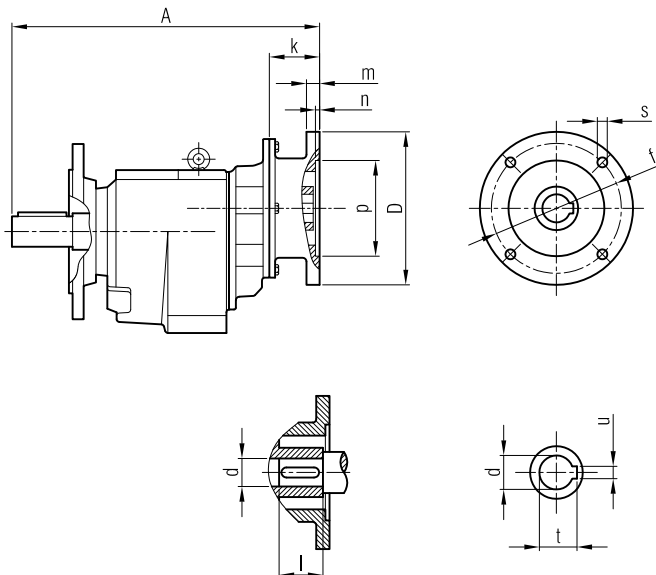
Terminal Box Positions
Posiciones de la caja de terminales



| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----|---------|---------|--------|--------|----------|----------|
| A | 1033 | 1058 | 1095 | 1115 | 1186 | 1224 |
| A1 | 1099 | 1124 | 1173 | 1198 | 1286 | 1324 |
| H | 145 | 168 | 220 | 220 | 241 | 241 |
| HD | 257 | 300 | 380 | 380 | 421 | 421 |
| AC | 218 | 257 | 310 | 310 | 348 | 348 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

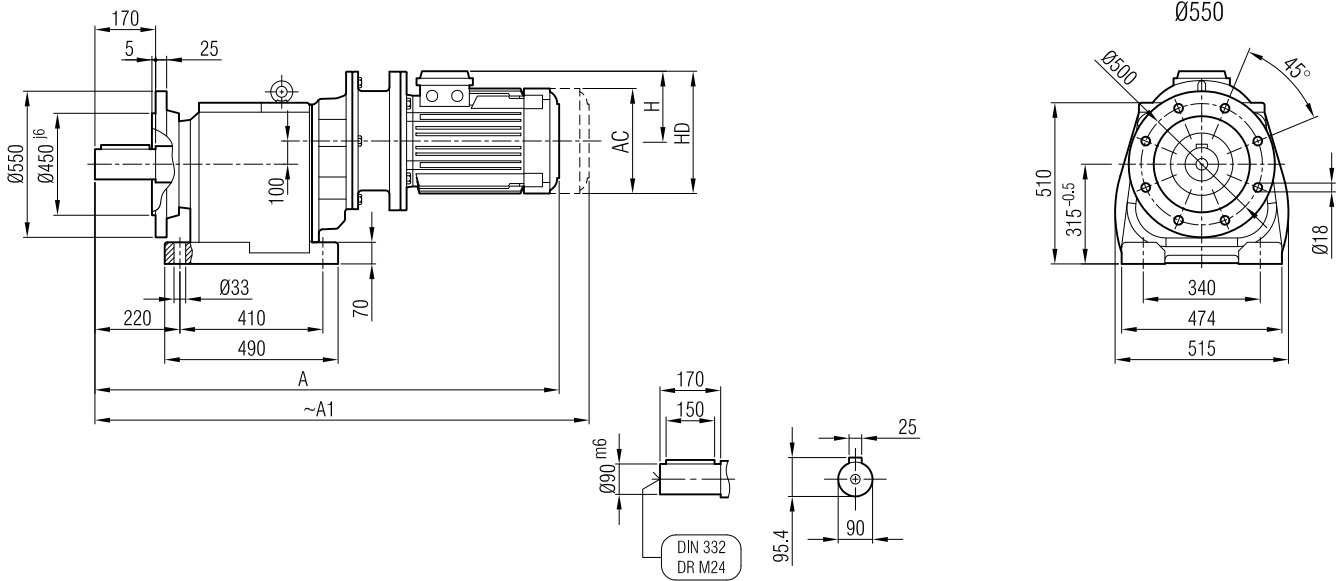
İRFPM 124



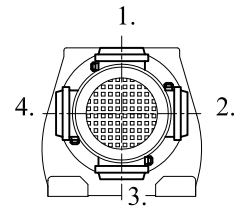
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 90/B5 | 587 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |



İRAFPM 124



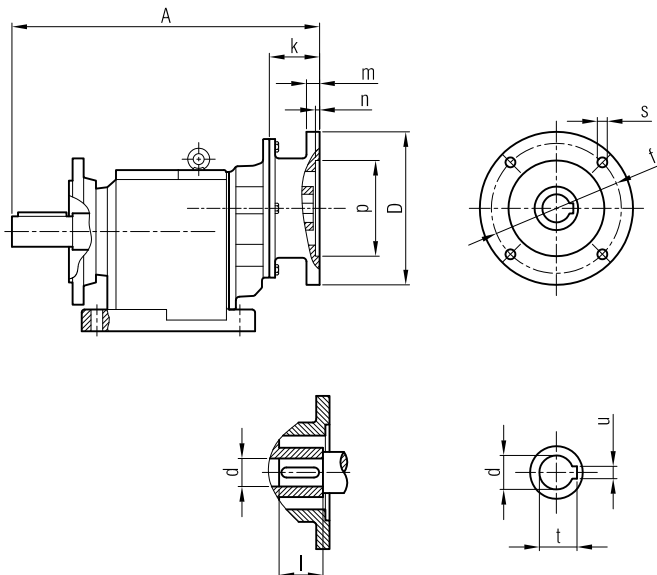
Terminal Box Positions
Posiciones de la caja de terminales



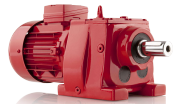
| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |
|----|---------|---------|--------|--------|----------|----------|
| A | 1033 | 1058 | 1095 | 1115 | 1186 | 1224 |
| A1 | 1099 | 1124 | 1173 | 1198 | 1286 | 1324 |
| H | 145 | 168 | 220 | 220 | 241 | 241 |
| HD | 257 | 300 | 380 | 380 | 421 | 421 |
| AC | 218 | 257 | 310 | 310 | 348 | 348 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

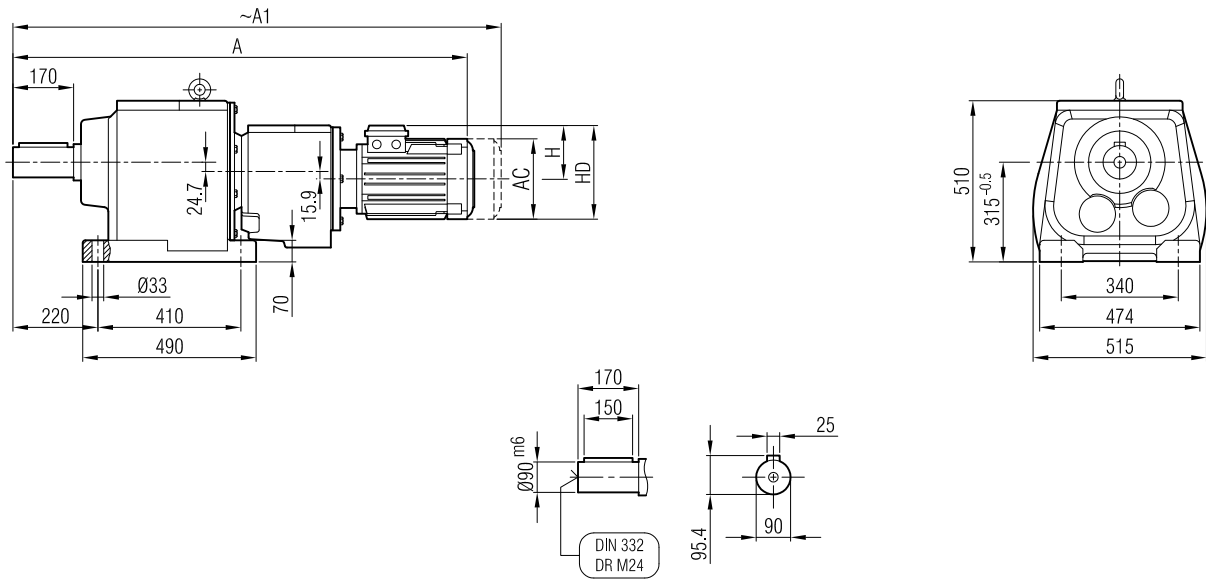
İRAFP 124



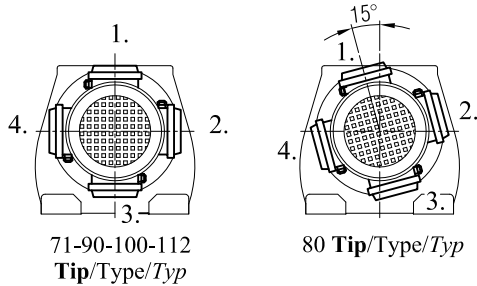
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 90/B5 | 587 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |



İRAM 122 İR 73
İRAM 123 İR 72 / İRAM 123 İR 73



Terminal Box Positions
Posiciones de la caja de terminales



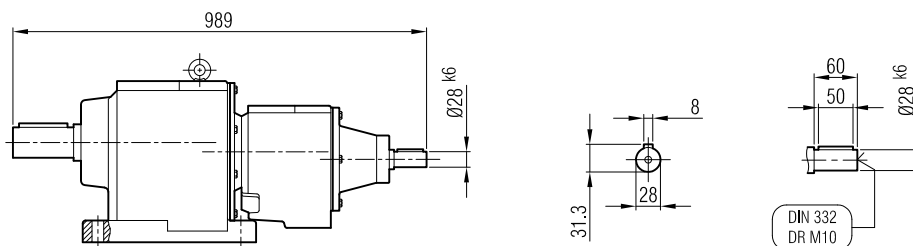
71-90-100-112
Tip/Type/Typ

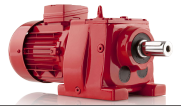
80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | 100 | 112 |
|----------------|------|------|------|------|------|------|
| A | 1027 | 1057 | 1087 | 1112 | 1153 | 1176 |
| A ₁ | 1078 | 1126 | 1153 | 1178 | 1231 | 1259 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

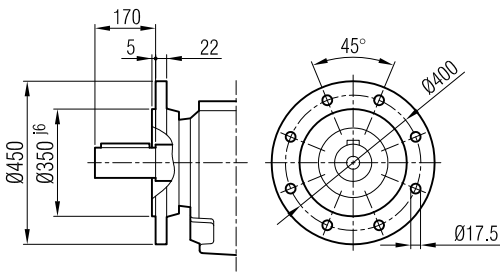
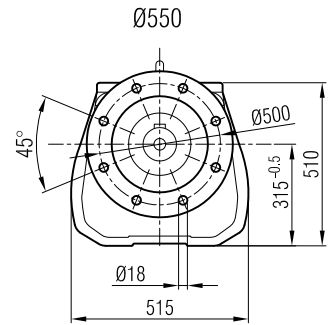
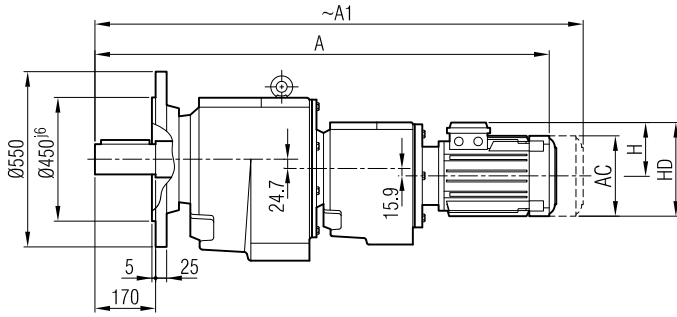
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 122 İR 72 / İRA 122 İR 73
İRA 123 İR 72 / İRA 123 İR 73

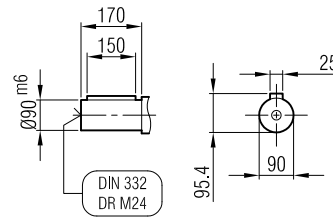




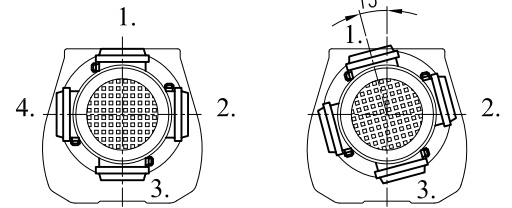
İRFM 122 İR 73
İRFM 123 İR 72 / İRFM 123 İR 73



Ø450
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



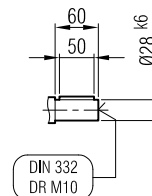
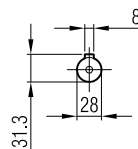
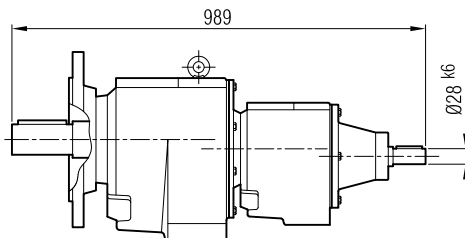
71-90-100-112
Tip/Type/Typ

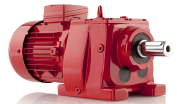
80 **Tip/Type/Typ**

| | 71 | 80 | 90 S | 90 L | 100 | 112 |
|----------------|------|------|------|------|------|------|
| A | 1027 | 1057 | 1087 | 1112 | 1153 | 1176 |
| A ₁ | 1078 | 1126 | 1153 | 1178 | 1231 | 1259 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

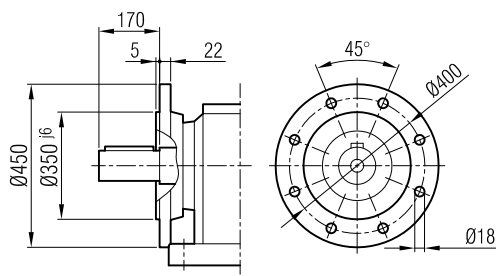
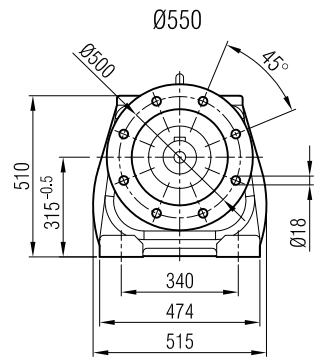
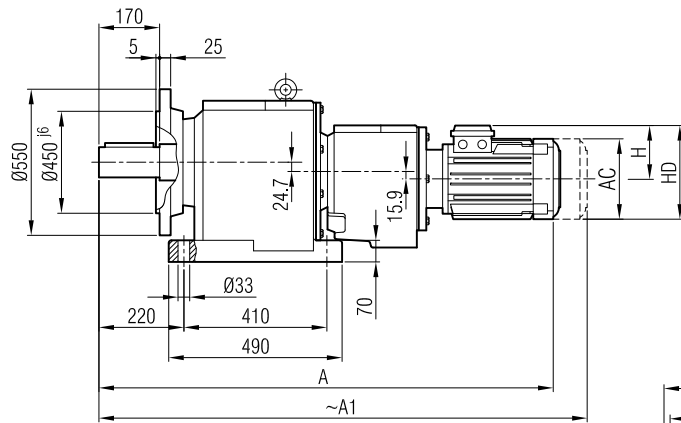
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 122 İR 72 / İRF 122 İR 73
İRF 123 İR 72 / İRF 123 İR 73

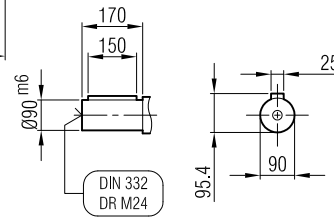




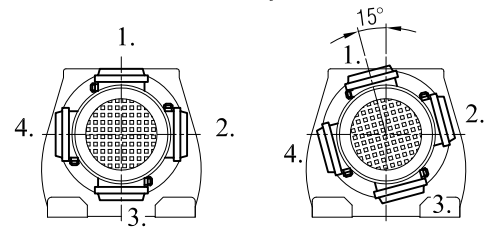
İRAFM 122 İR 73
İRAFM 123 İR 72 / İRAFM 123 İR 73



Ø450
(Opsiyonel / Optional / Opcional)



Terminal Box Positions
Posiciones de la caja de terminales



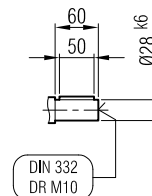
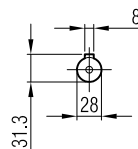
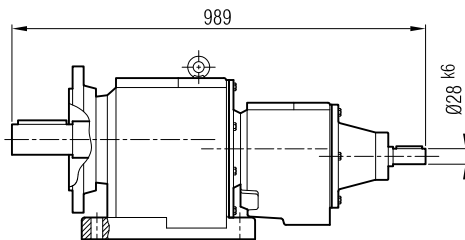
71-90-100-112
Tip/Type/Typ

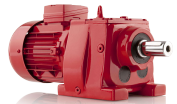
80 Tip/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 |
|----------------|------|------|------|------|------|------|
| A | 1027 | 1057 | 1087 | 1112 | 1153 | 1176 |
| A ₁ | 1078 | 1126 | 1153 | 1178 | 1231 | 1259 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

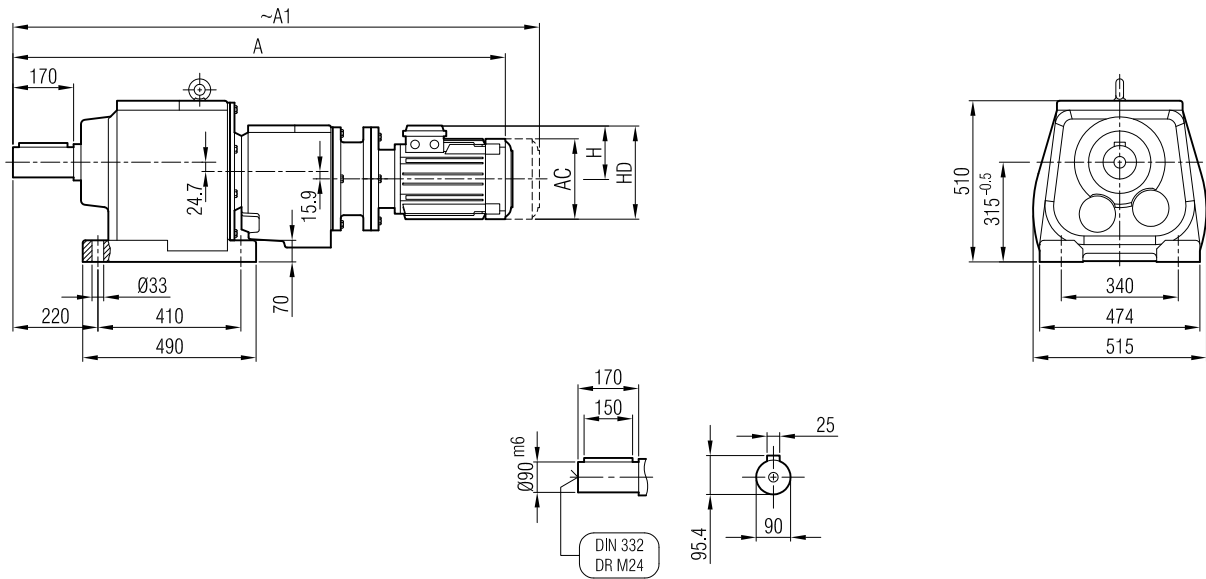
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 122 İR 72 / İRAF 122 İR 73
İRAF 123 İR 72 / İRAF 123 İR 73

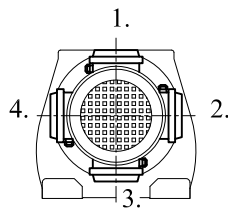




İRAPM 122 İR 73
İRAPM 123 İR 72 / İRAPM 123 İR 73



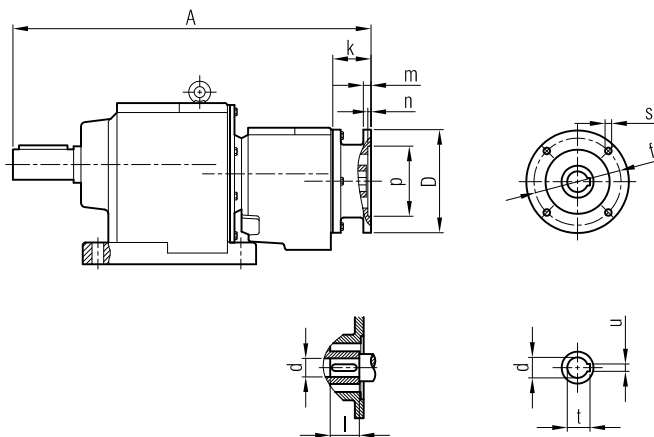
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 |
|----|-------|-------|---------|---------|--------|--------|
| A | 1103 | 1136 | 1151 | 1176 | 1213 | 1233 |
| A1 | 1154 | 1205 | 1217 | 1242 | 1291 | 1316 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

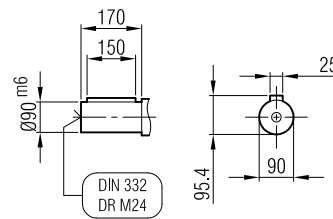
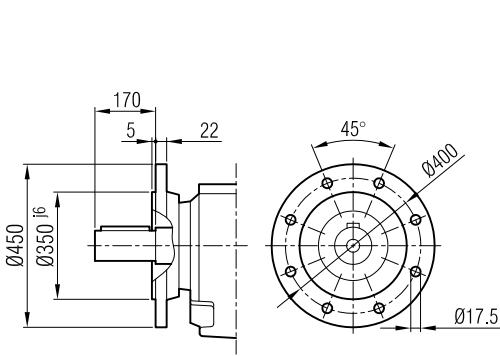
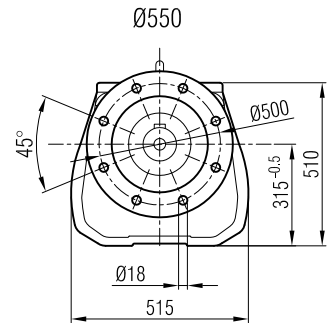
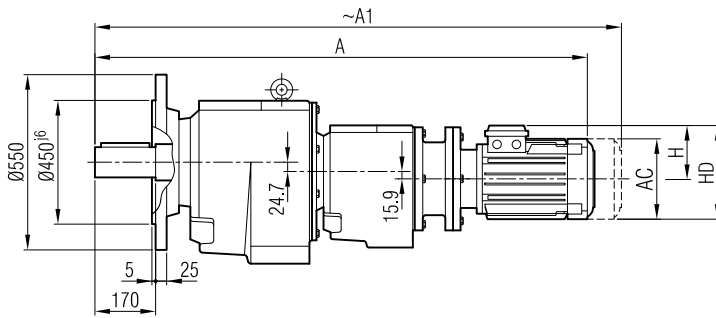
İRAP 122 İR 72 / İRAP 122 İR 73
İRAP 123 İR 72 / İRAP 123 İR 73



| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 880 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |

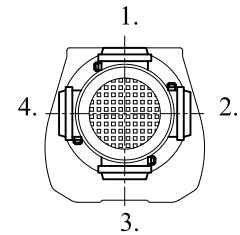


İRFPM 122 İR 73
İRFPM 123 İR 72 / İRFPM 123 İR 73



Ø450
(Opsiyonel / Optional / Opcional)

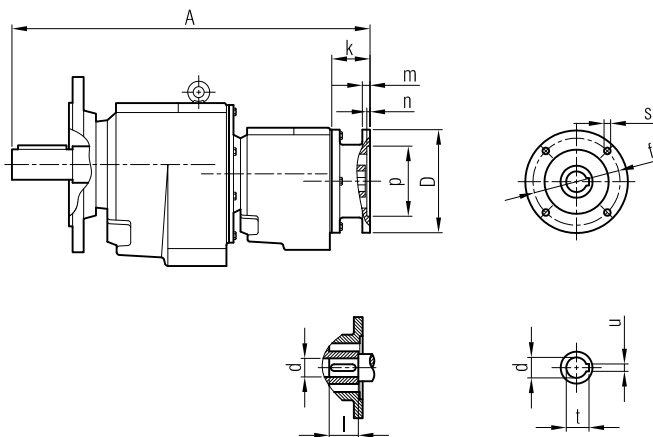
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 |
|----|-------|-------|---------|---------|--------|--------|
| A | 1103 | 1136 | 1151 | 1176 | 1213 | 1233 |
| A1 | 1154 | 1205 | 1217 | 1242 | 1291 | 1316 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

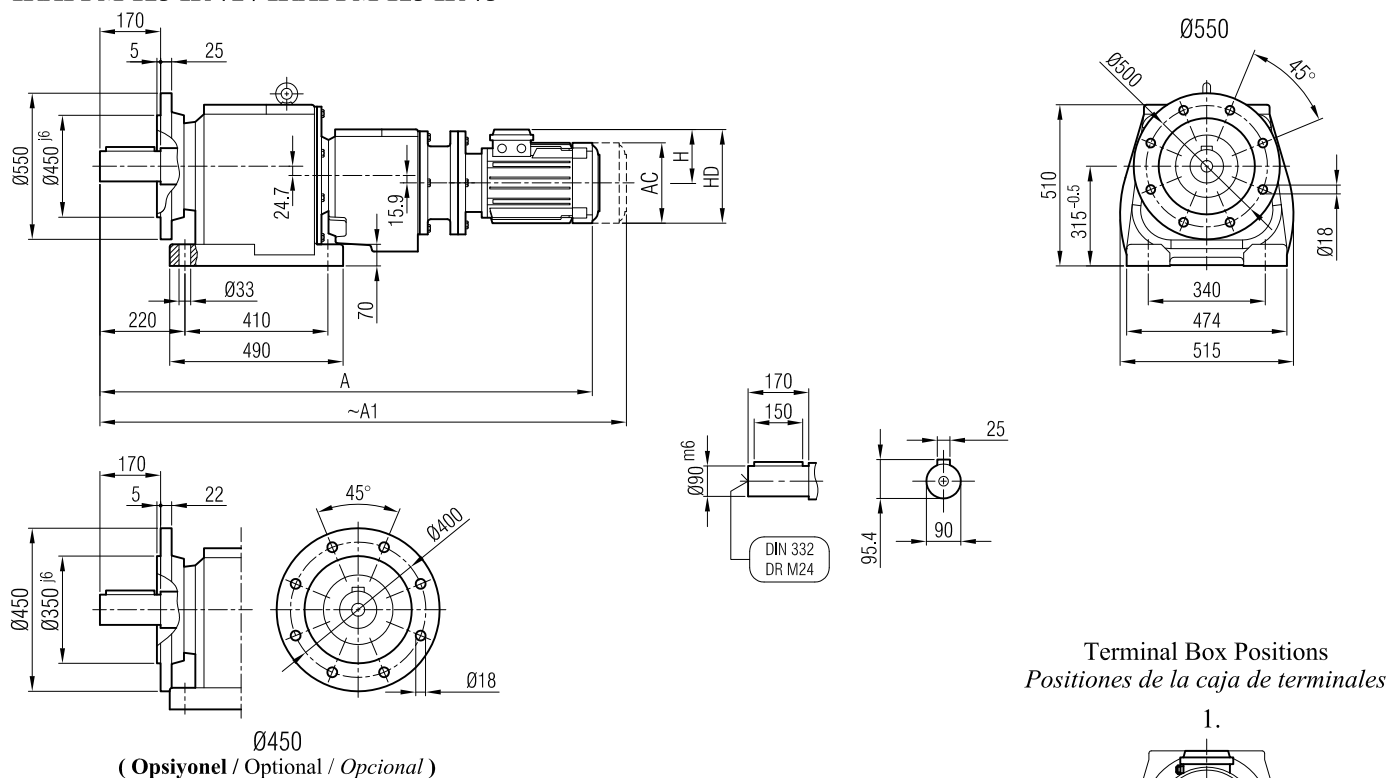
İRFP 122 İR 72 / İRFPM 122 İR 73
İRFP 123 İR 72 / İRFPM 123 İR 73



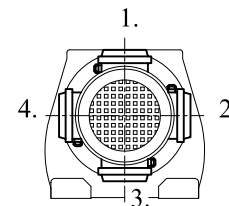
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 880 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |



İRAFP 122 İR 73
İRAFP 123 İR 72 / İRAFP 123 İR 73



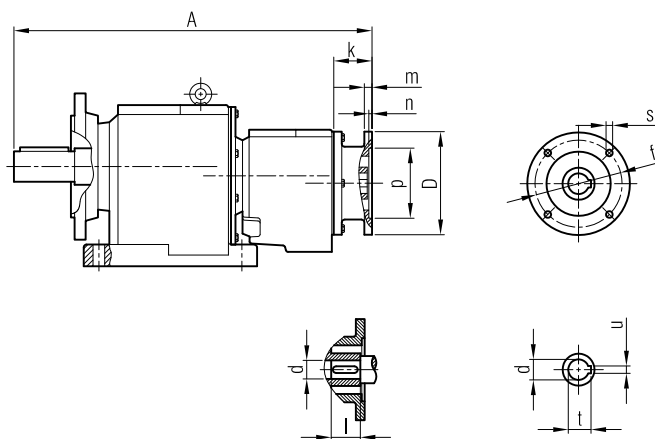
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 |
|----|-------|-------|---------|---------|--------|--------|
| A | 1103 | 1136 | 1151 | 1176 | 1213 | 1233 |
| A1 | 1154 | 1205 | 1217 | 1242 | 1291 | 1316 |
| H | 111 | 118 | 126 | 126 | 134 | 145 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

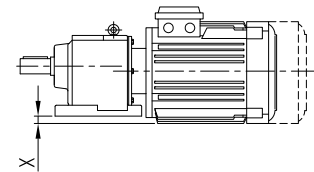
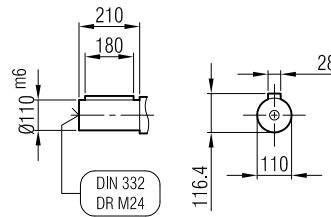
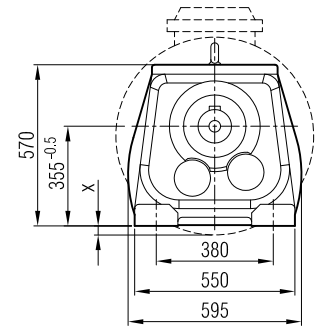
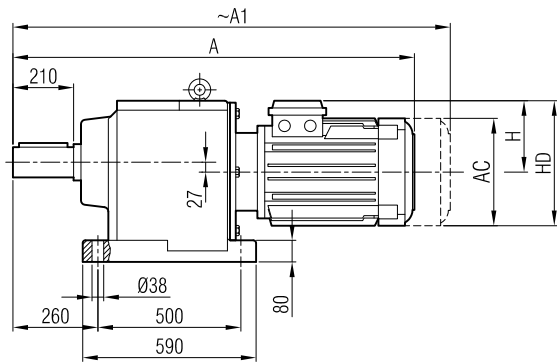
İRAFP 122 İR 72 / İRAFP 122 İR 73
İRAFP 123 İR 72 / İRAFP 123 İR 73



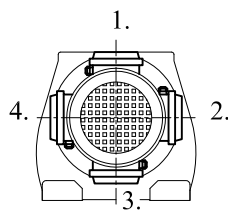
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|---|----|----|------|---|
| 71/B5 | 880 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 892 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 897 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |



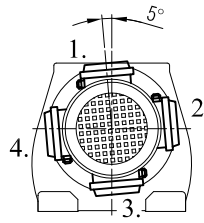
İRAM 142
İRAM 143



Terminal Box Positions
Posiciones de la caja de terminales



160-180-225-250
280 **Tip/Type/Typ**

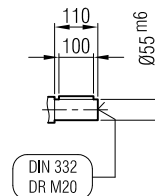
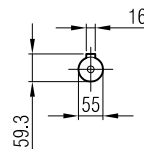
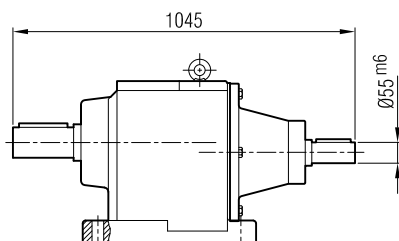


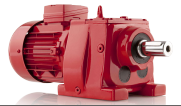
200 **Tip/Type/Typ**

| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M |
|----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| A | 1206 | 1250 | 1266 | 1304 | 1355 | 1388 | 1413 | 1491 | 1552 | 1552 |
| A1 | 1321 | 1365 | 1386 | 1424 | 1475 | 1508 | 1533 | 1611 | 1672 | 1752 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - |

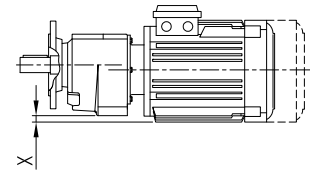
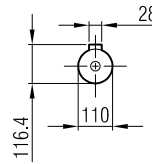
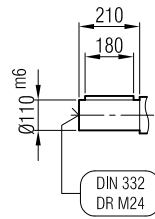
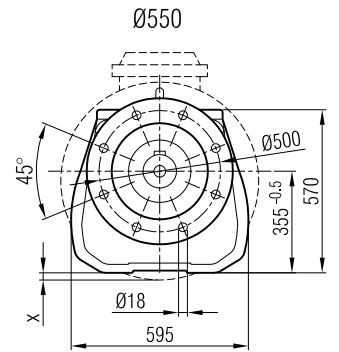
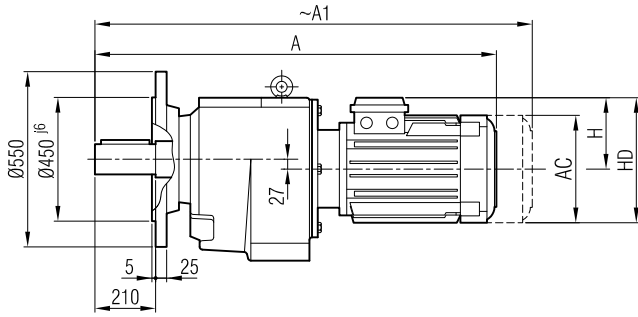
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 142
İRA 143

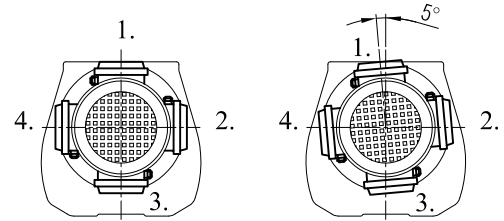




İRFM 142
İRFM 143



Terminal Box Positions
Posiciones de la caja de terminales

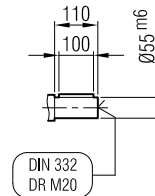
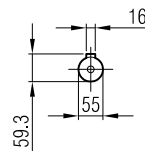
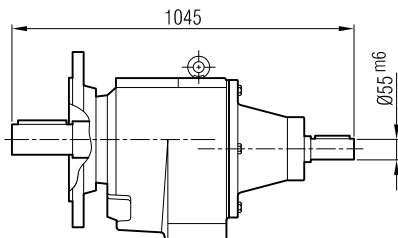


132-160-180-225-250
280 **Tip/Type/Typ**

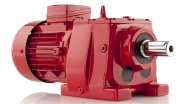
200 **Tip/Type/Typ**

| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| A | 1206 | 1250 | 1266 | 1304 | 1355 | 1388 | 1413 | 1491 | 1552 | 1552 |
| A ₁ | 1321 | 1365 | 1386 | 1424 | 1475 | 1508 | 1533 | 1611 | 1672 | 1752 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - |

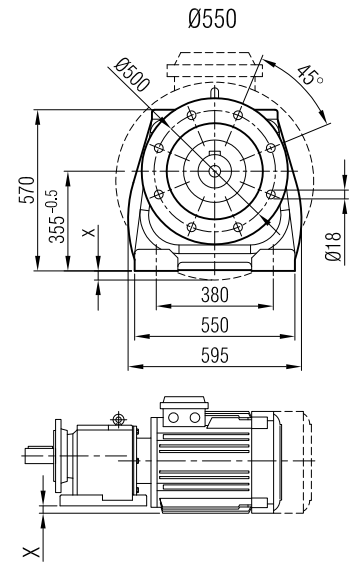
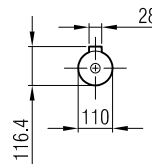
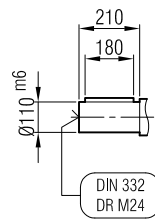
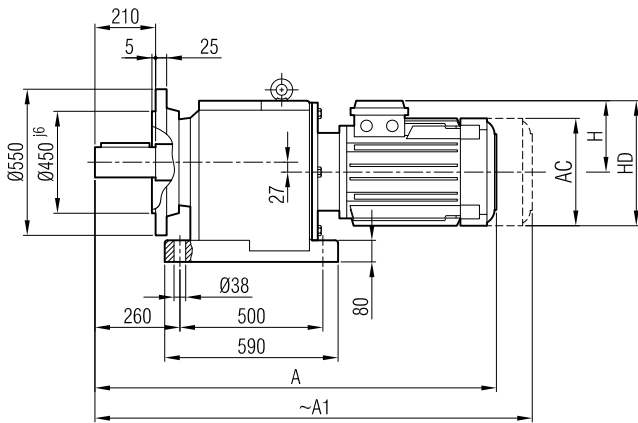
İRF 142
İRF 143



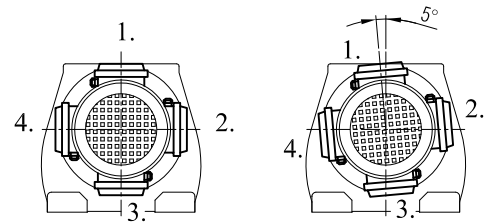
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



İRAF 142
İRAF 143



Terminal Box Positions
Posiciones de la caja de terminales



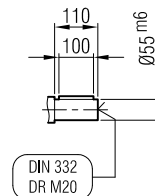
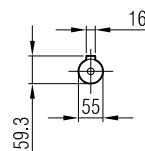
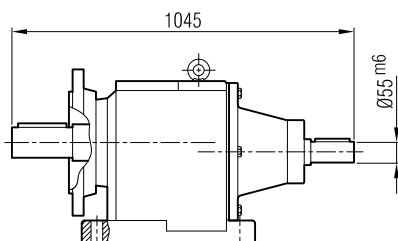
160-180-225-250
280 **Tip/Type/Typ**

200 **Tip/Type/Typ**

| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| A | 1206 | 1250 | 1266 | 1304 | 1355 | 1388 | 1413 | 1491 | 1552 | 1552 |
| A ₁ | 1321 | 1365 | 1386 | 1424 | 1475 | 1508 | 1533 | 1611 | 1672 | 1752 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - |

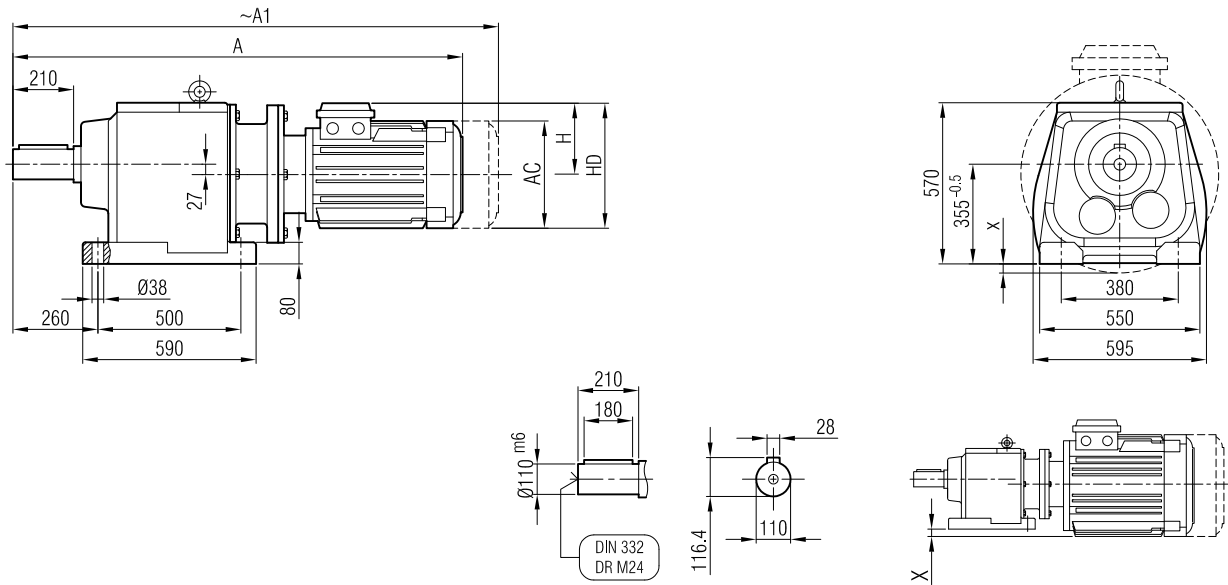
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 142
İRAF 143

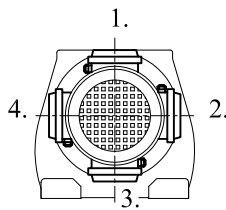




İRAPM 142
İRAPM 143



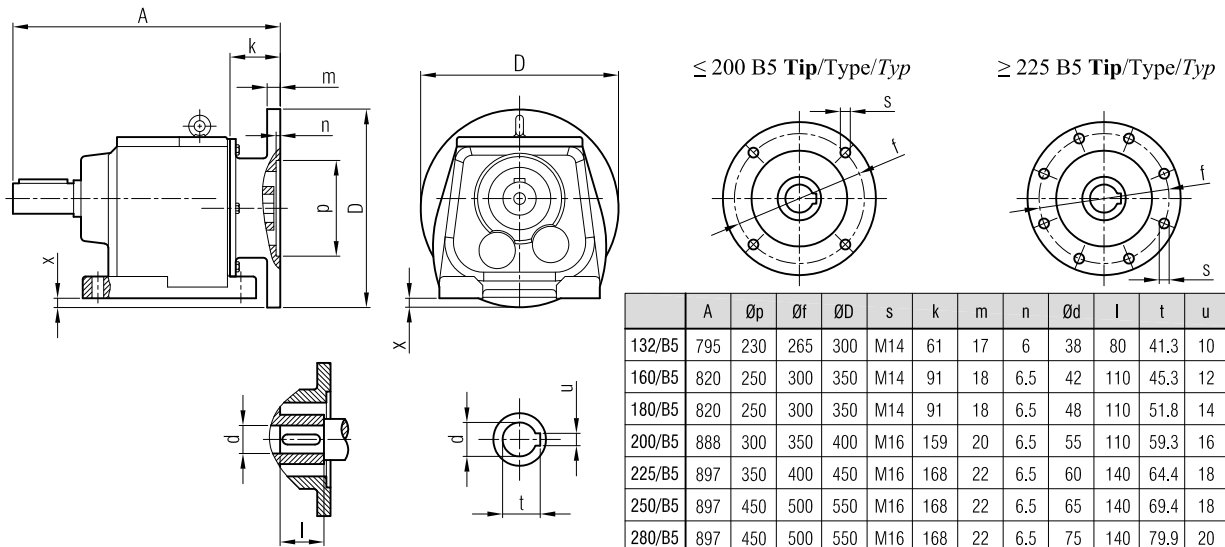
Terminal Box Positions
Posiciones de la caja de terminales



| | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 |
|----------------|----------|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|
| A | 1213 | 1310 | 1354 | 1367 | 1405 | 1525 | 1552 | 1577 | 1653 | 1715 | 1715 |
| A ₁ | 1313 | 1425 | 1469 | 1487 | 1525 | 1645 | 1672 | 1697 | 1773 | 1835 | 1915 |
| H | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 |
| HD | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 |
| AC | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - | - |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

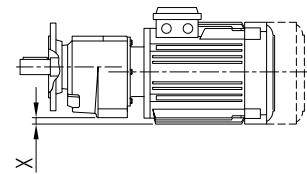
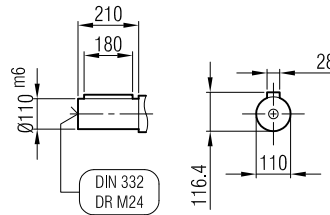
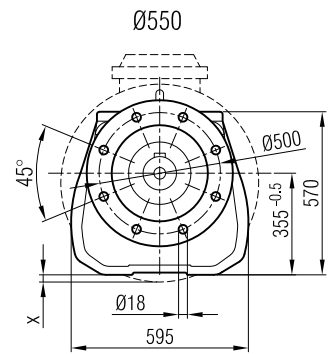
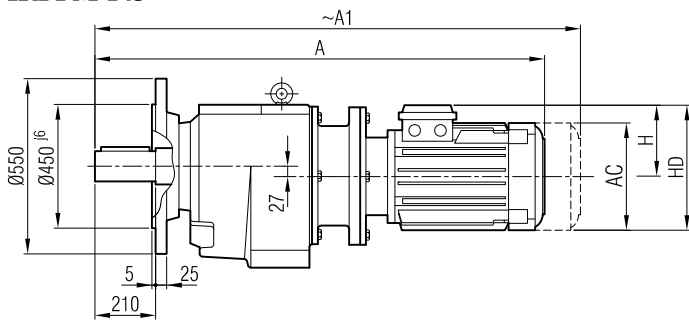
İRAP 142
İRAP 143



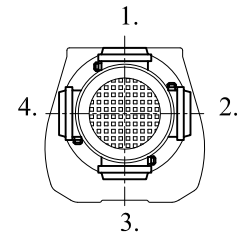
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 795 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 888 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 897 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |



İRFPM 142
İRFPM 143



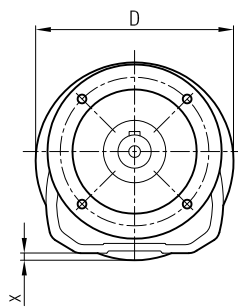
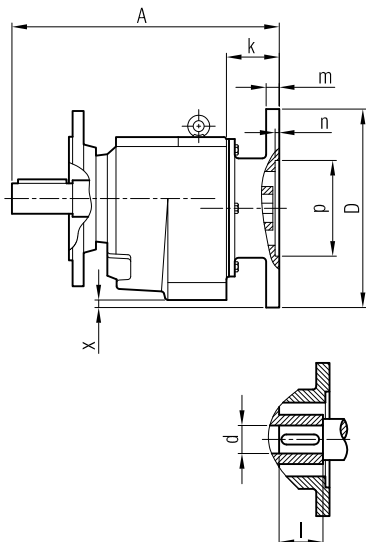
Terminal Box Positions
Posiciones de la caja de terminales



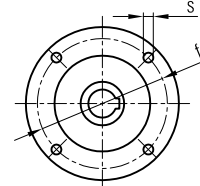
| | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 |
|----------------|----------|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|
| A | 1213 | 1310 | 1354 | 1367 | 1405 | 1525 | 1552 | 1577 | 1653 | 1715 | 1715 |
| A ₁ | 1313 | 1425 | 1469 | 1487 | 1525 | 1645 | 1672 | 1697 | 1773 | 1835 | 1915 |
| H | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 |
| HD | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 |
| AC | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - | - |

İRFP 142
İRFP 143

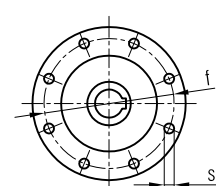
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



≤ 200 B5 **Tip/Type/Typ**



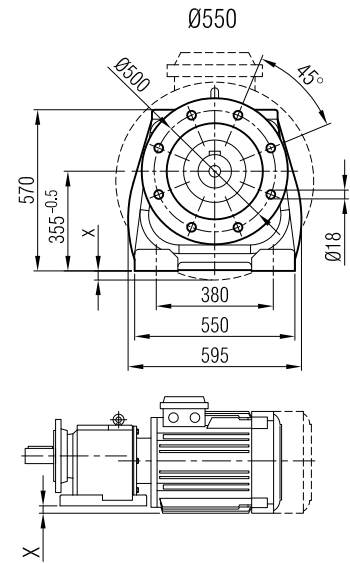
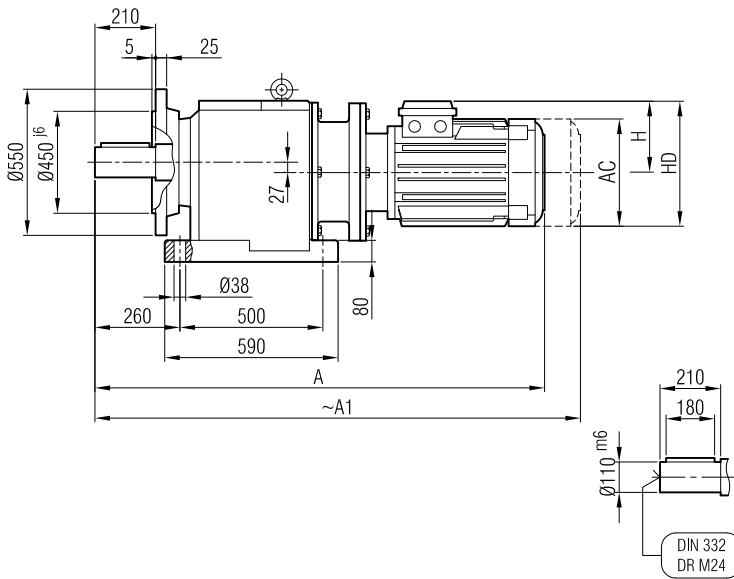
≥ 225 B5 **Tip/Type/Typ**



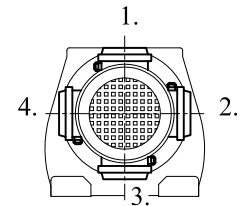
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 795 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 888 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 897 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |



İRAFPM 142
İRAFPM 143



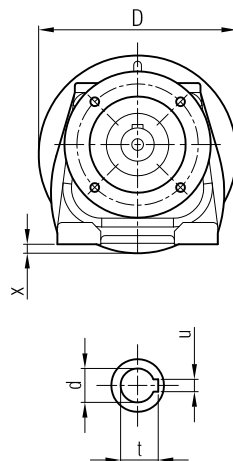
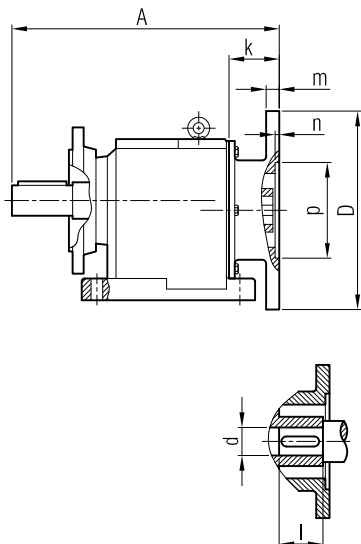
Terminal Box Positions
Posiciones de la caja de terminales



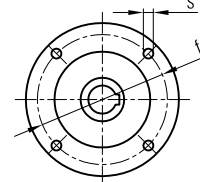
| | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 |
|----------------|----------|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|
| A | 1213 | 1310 | 1354 | 1367 | 1405 | 1525 | 1552 | 1577 | 1653 | 1715 | 1715 |
| A ₁ | 1313 | 1425 | 1469 | 1487 | 1525 | 1645 | 1672 | 1697 | 1773 | 1835 | 1915 |
| H | 168 | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 |
| HD | 300 | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 |
| AC | 257 | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 |
| x | - | - | - | - | - | - | - | - | - | - | - |

İRAFP 142
İRAFP 143

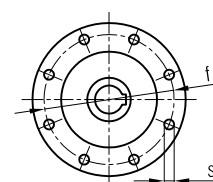
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



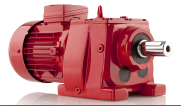
≤ 200 B5 Tip/Type/Typ



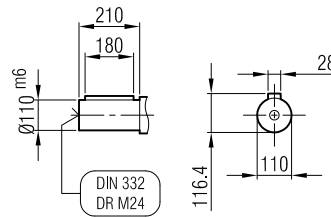
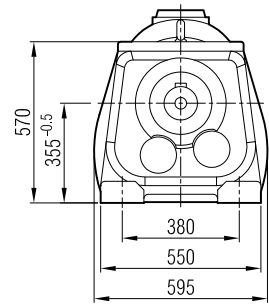
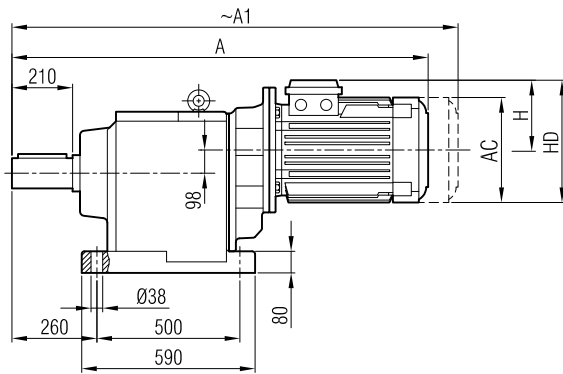
≥ 225 B5 Tip/Type/Typ



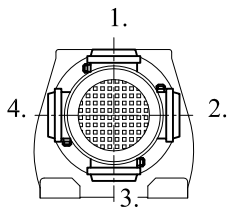
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 132/B5 | 795 | 230 | 265 | 300 | M14 | 61 | 17 | 6 | 38 | 80 | 41.3 | 10 | - |
| 160/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 820 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 888 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 897 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 897 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |



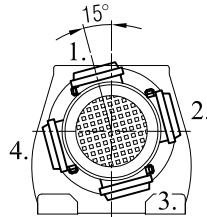
İRAM 144



Terminal Box Positions
Posiciones de la caja de terminales



100-112-132
Tip/Type/Typ

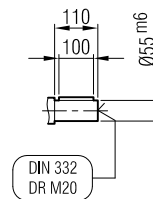
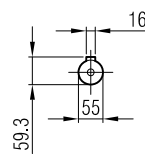
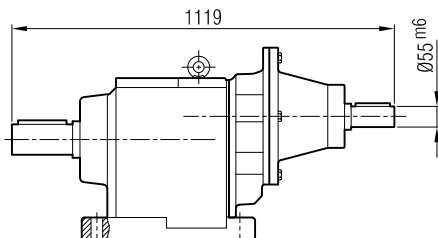


160 Tip/Type/Typ

| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1160 | 1180 | 1221 | 1259 | 1331 | | |
| A ₁ | 1238 | 1263 | 1321 | 1359 | 1446 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

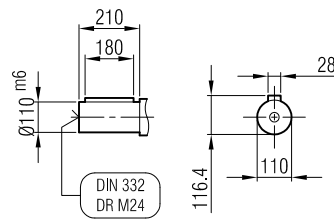
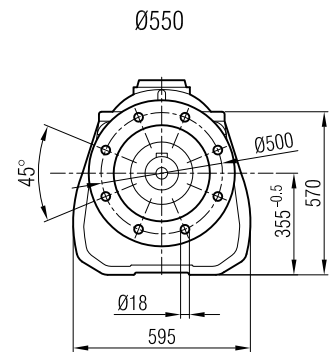
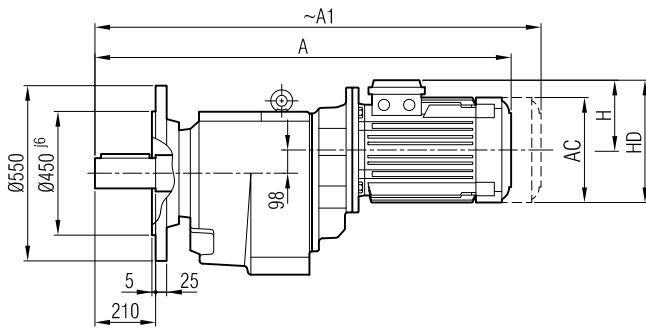
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 144

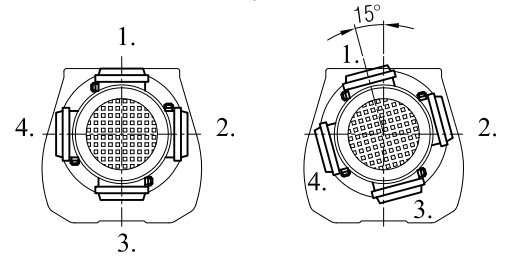




İRFM 144



Terminal Box Positions
Posiciones de la caja de terminales



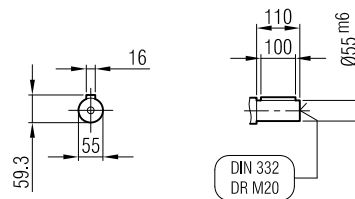
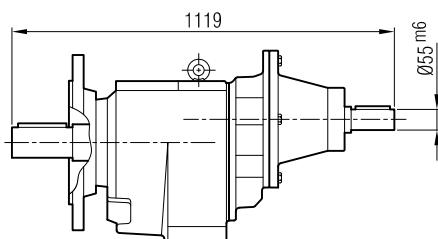
100-112-132
Tip/Type/Typ

160 **Tip/Type/Typ**

| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1160 | 1180 | 1221 | 1259 | 1331 | | |
| A ₁ | 1238 | 1263 | 1321 | 1359 | 1446 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

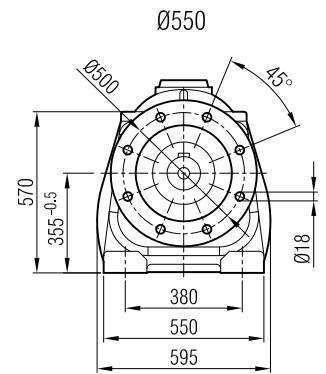
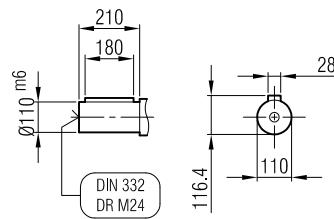
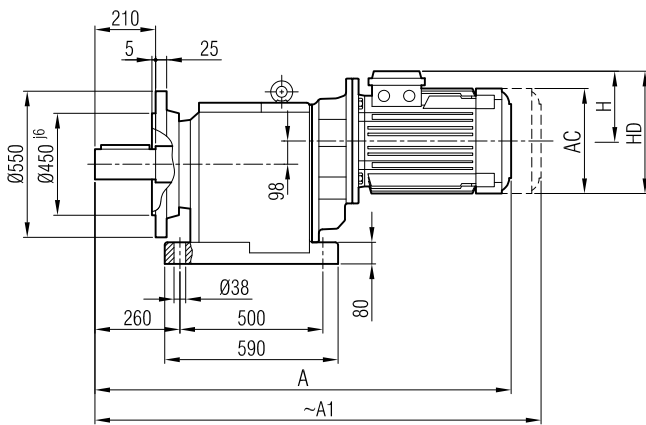
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 144

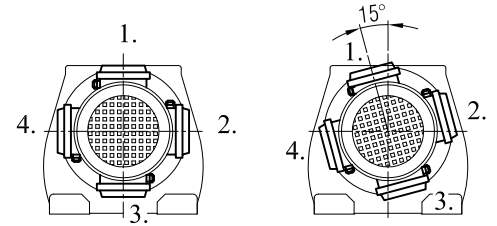




İRAF144



Terminal Box Positions
Posiciones de la caja de terminales



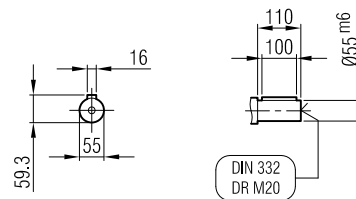
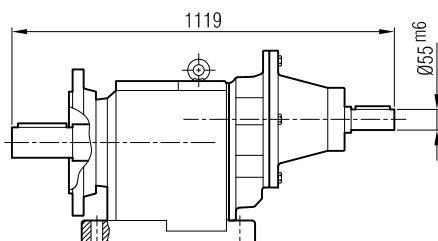
100-112-132
Tip/Type/Typ

160 **Tip/Type/Typ**

| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1160 | 1180 | 1221 | 1259 | 1331 | | |
| A ₁ | 1238 | 1263 | 1321 | 1359 | 1446 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

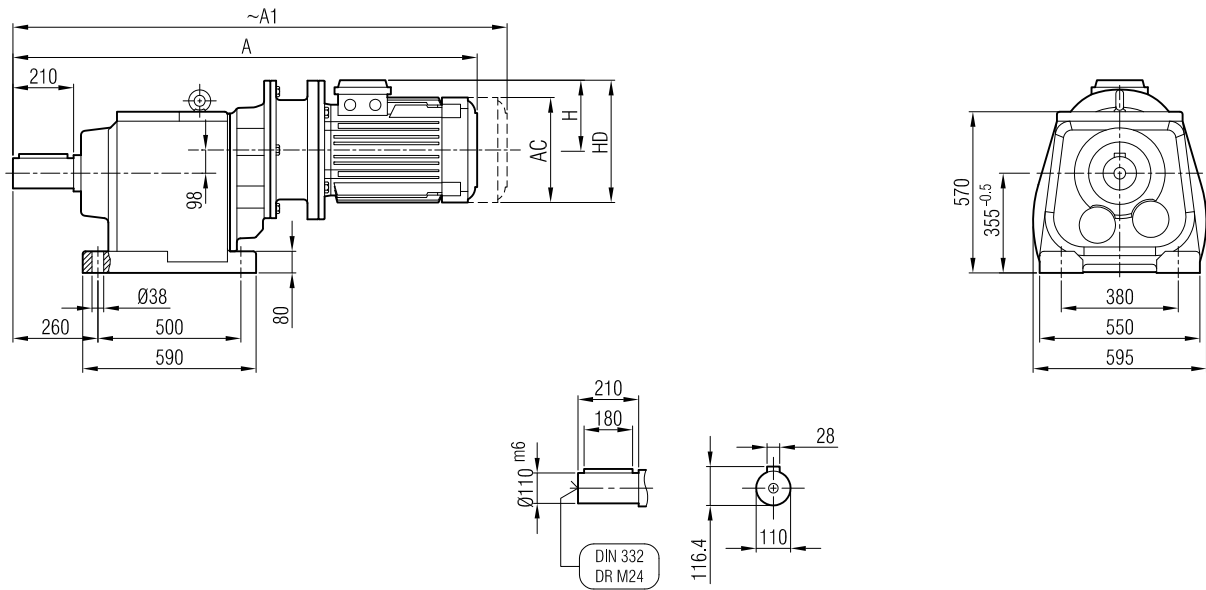
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 144

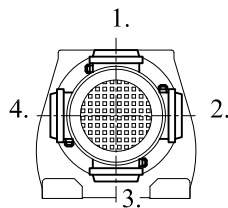




İRAPM 144



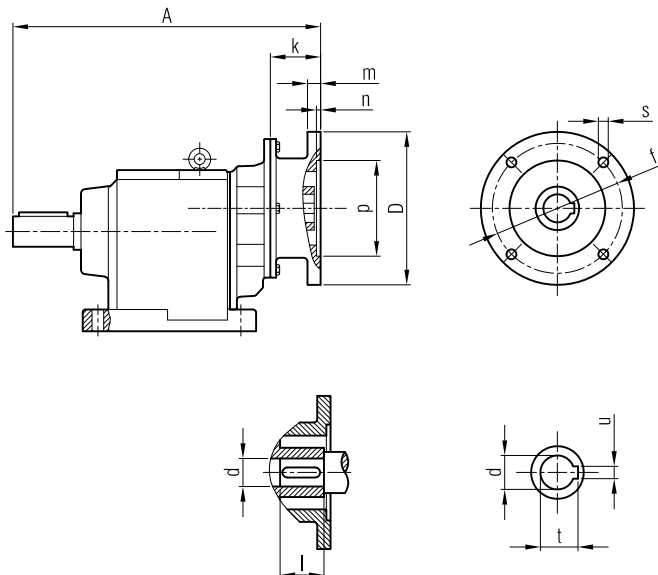
Terminal Box Positions
Posiciones de la caja de terminales



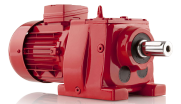
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|--------|--------|----------|----------|----------|
| A | 1222 | 1242 | 1313 | 1351 | 1430 |
| A ₁ | 1300 | 1325 | 1413 | 1451 | 1545 |
| H | 220 | 220 | 241 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

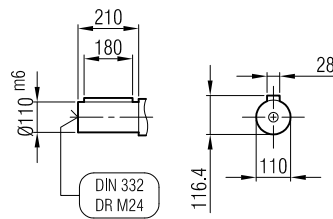
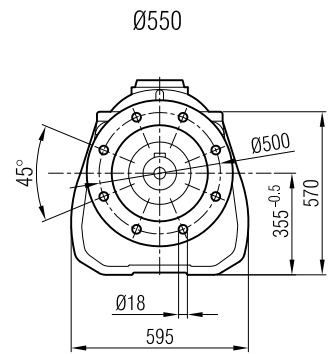
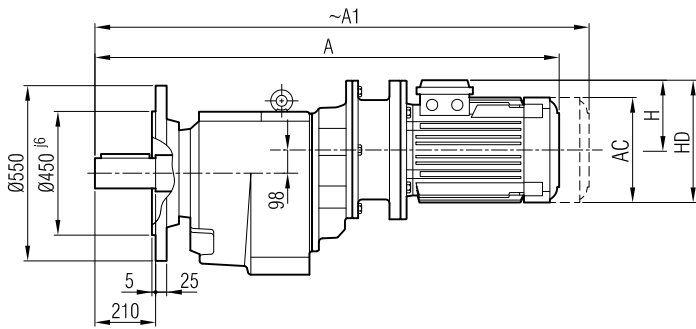
İRAP 144



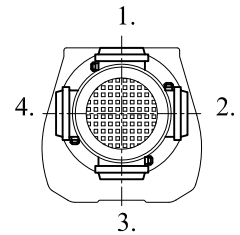
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRFPM 144



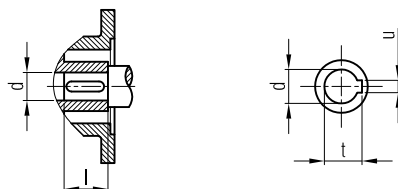
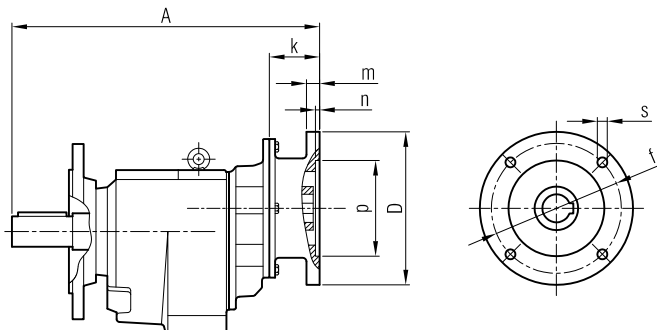
Terminal Box Positions
Posiciones de la caja de terminales



| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|--------|--------|----------|----------|----------|
| A | 1222 | 1242 | 1313 | 1351 | 1430 |
| A ₁ | 1300 | 1325 | 1413 | 1451 | 1545 |
| H | 220 | 220 | 241 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

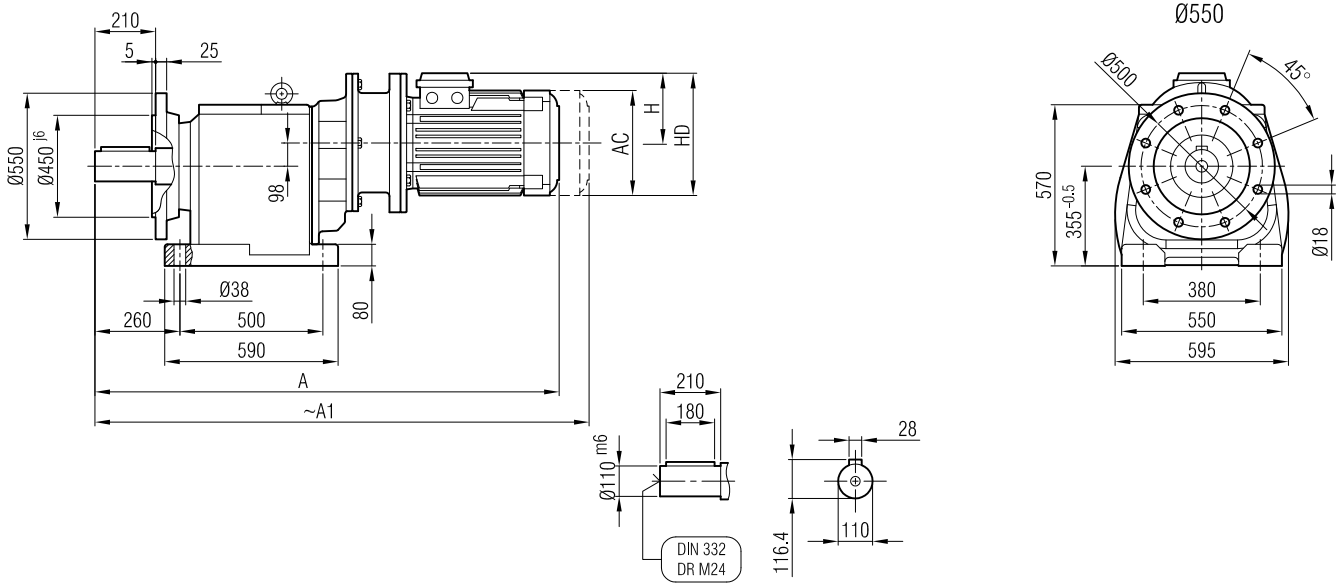
İRFP 144



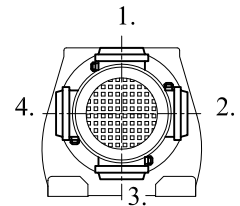
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAFPM 144



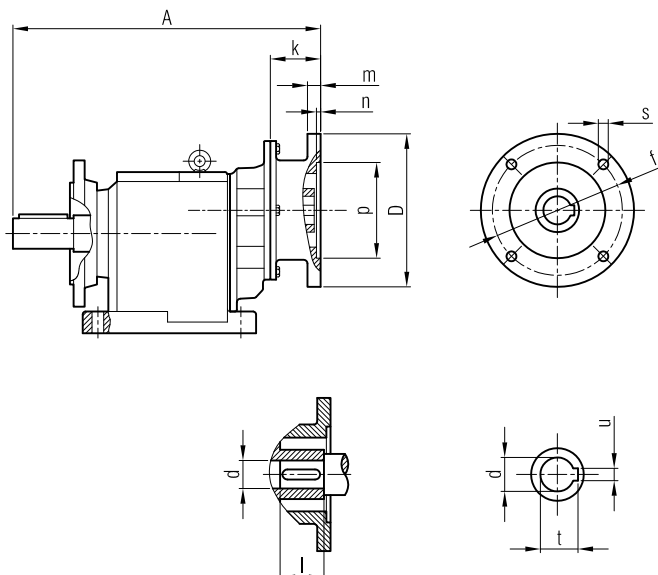
Terminal Box Positions
Posiciones de la caja de terminales



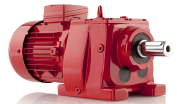
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|--------|--------|----------|----------|----------|
| A | 1222 | 1242 | 1313 | 1351 | 1430 |
| A ₁ | 1300 | 1325 | 1413 | 1451 | 1545 |
| H | 220 | 220 | 241 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

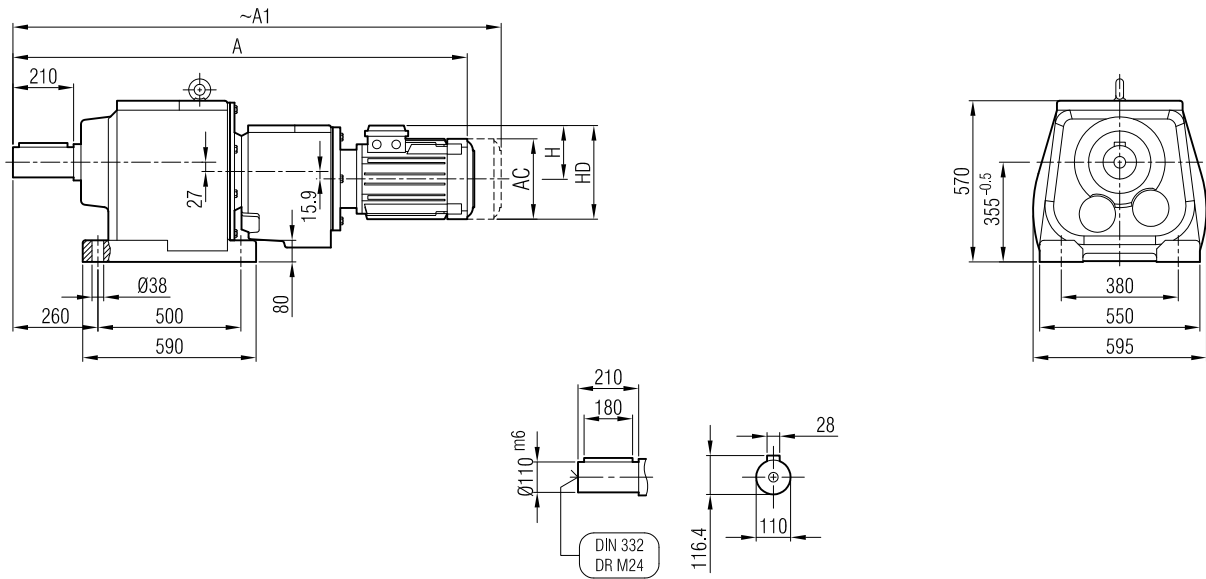
İRAFP 144



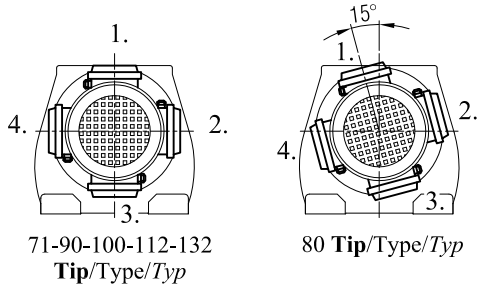
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 587 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 614 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 621 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAM 143 İR 72
İRAM 143 İR 73



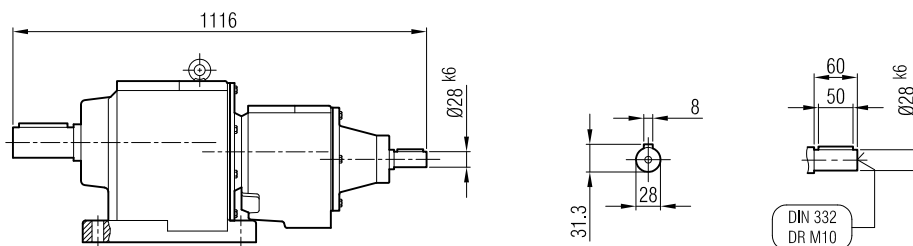
Terminal Box Positions
Posiciones de la caja de terminales



| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|------|------|------|------|------|------|-------|
| A | 1154 | 1184 | 1214 | 1239 | 1280 | 1303 | 1365 |
| A ₁ | 1205 | 1253 | 1280 | 1305 | 1358 | 1386 | 1465 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

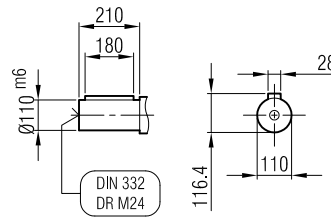
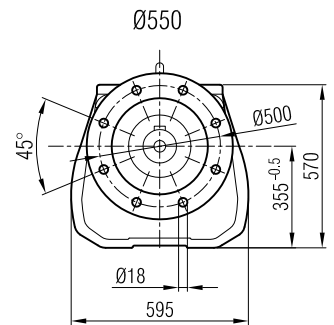
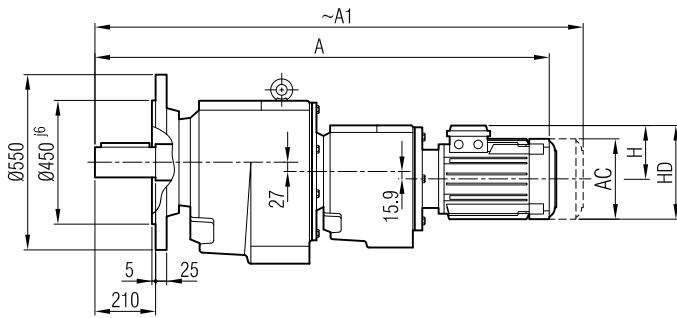
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 142 İR 72 / İRA 142 İR 73
İRA 143 İR 72 / İRA 143 İR 73

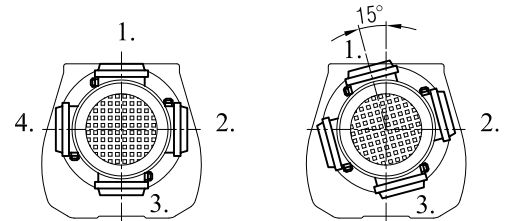




İRFM 143 İR 72
İRFM 143 İR 73



Terminal Box Positions
Posiciones de la caja de terminales



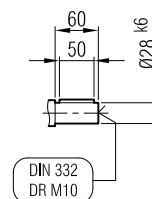
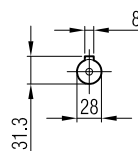
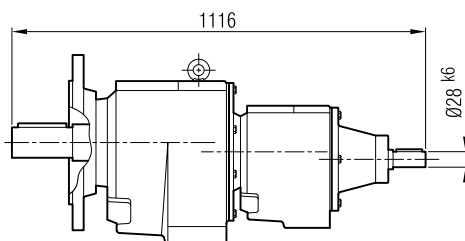
71-90-100-112-132
Tip/Type/Typ

80 Tip/Type/Typ

| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|------|------|------|------|------|------|-------|
| A | 1154 | 1184 | 1214 | 1239 | 1280 | 1303 | 1365 |
| A ₁ | 1205 | 1253 | 1280 | 1305 | 1358 | 1386 | 1465 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

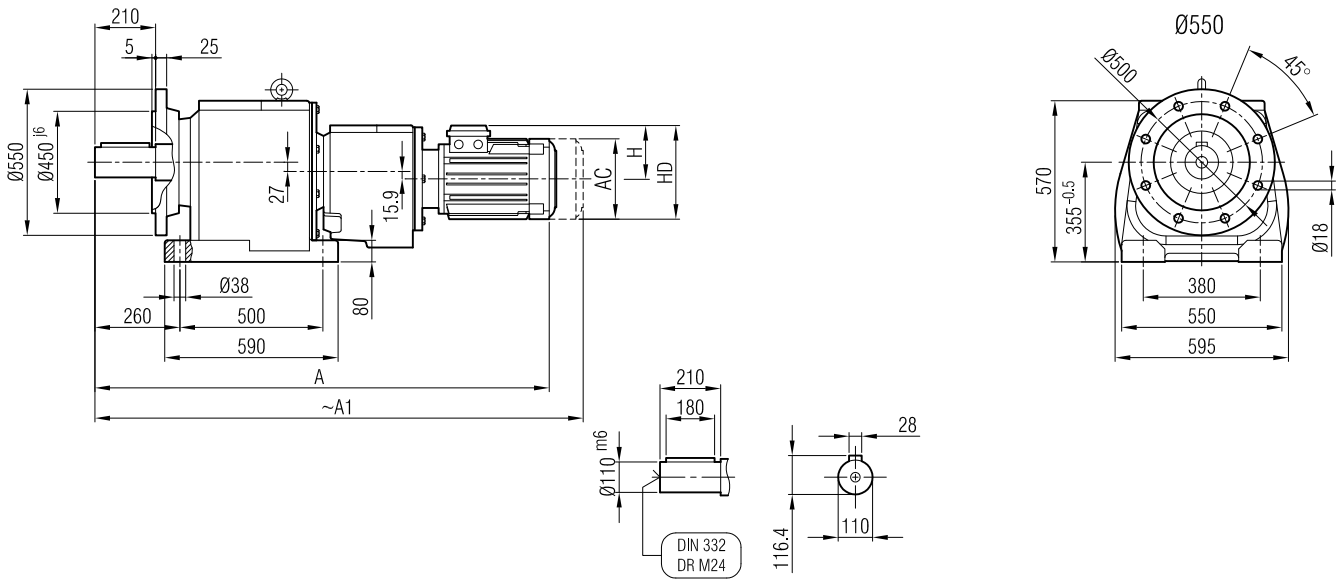
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 142 İR 72 / İRF 143 İR 73
İRF 143 İR 72 / İRF 143 İR 73

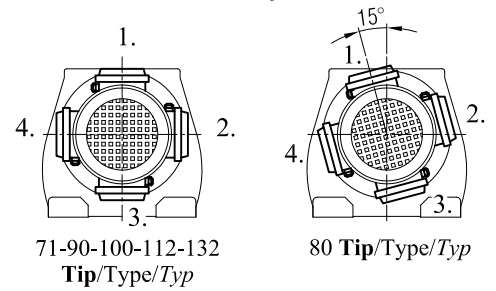




İRAFM 143 İR 72
İRAFM 143 İR 73



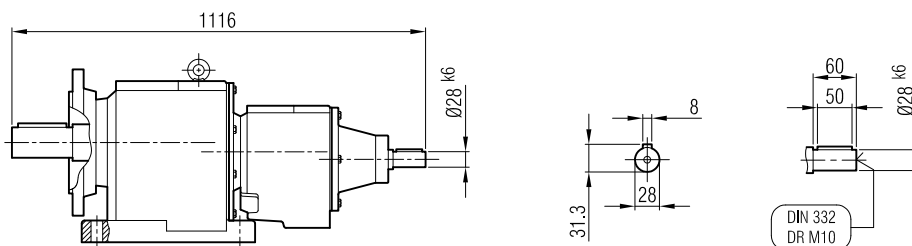
Terminal Box Positions
Posiciones de la caja de terminales

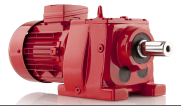


| | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S |
|----------------|------|------|------|------|------|------|-------|
| A | 1154 | 1184 | 1214 | 1239 | 1280 | 1303 | 1365 |
| A ₁ | 1205 | 1253 | 1280 | 1305 | 1358 | 1386 | 1465 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

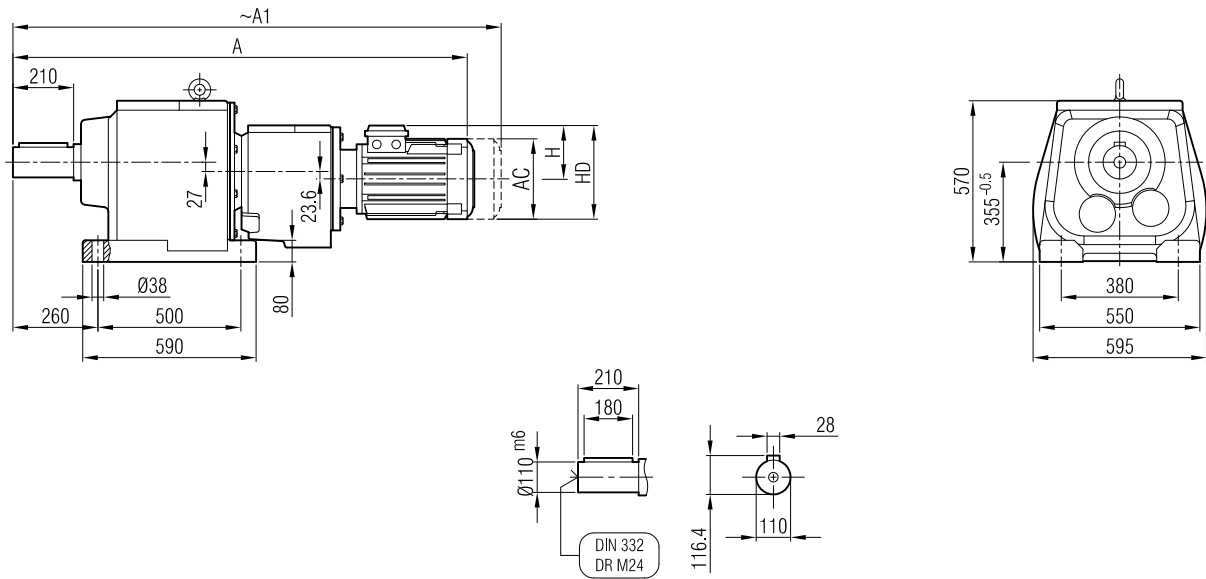
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 142 İR 72 / İRAF 142 İR 73
İRAF 143 İR 72 / İRAF 143 İR 73

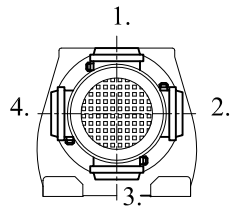




İRAM 143 İR 82



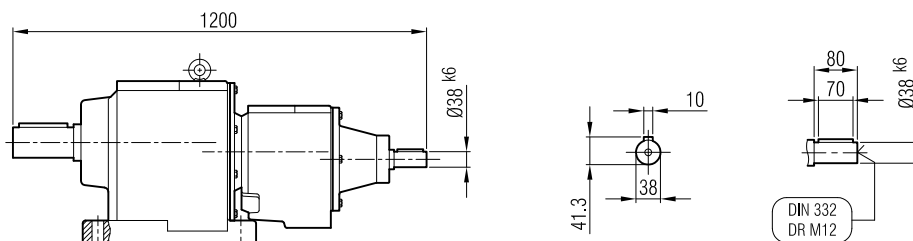
Terminal Box Positions
Posiciones de la caja de terminales



| | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----------------|------|------|------|------|-------|-------|-------|
| A | 1233 | 1261 | 1286 | 1326 | 1348 | 1410 | 1448 |
| A ₁ | 1302 | 1327 | 1352 | 1404 | 1431 | 1510 | 1548 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

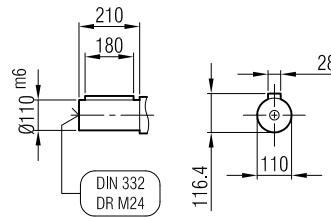
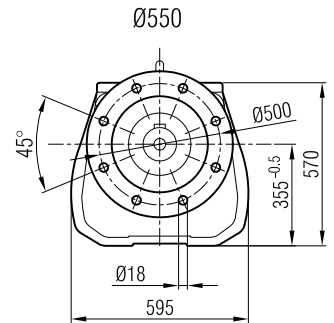
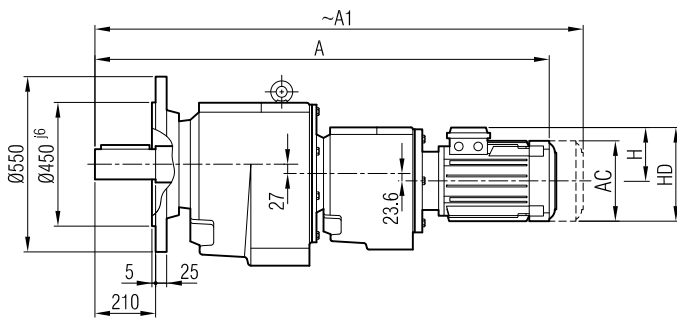
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 143 İR 82

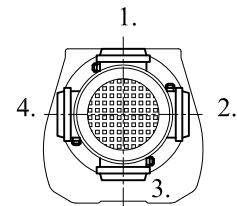




İRFM 143 İR 82



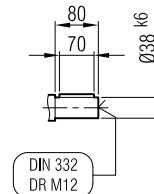
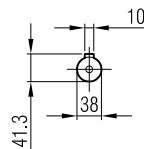
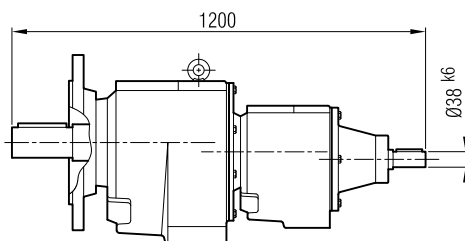
Terminal Box Positions
Posiciones de la caja de terminales

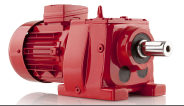


| | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----------------|------|------|------|------|-------|-------|-------|
| A | 1233 | 1261 | 1286 | 1326 | 1348 | 1410 | 1448 |
| A ₁ | 1302 | 1327 | 1352 | 1404 | 1431 | 1510 | 1548 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

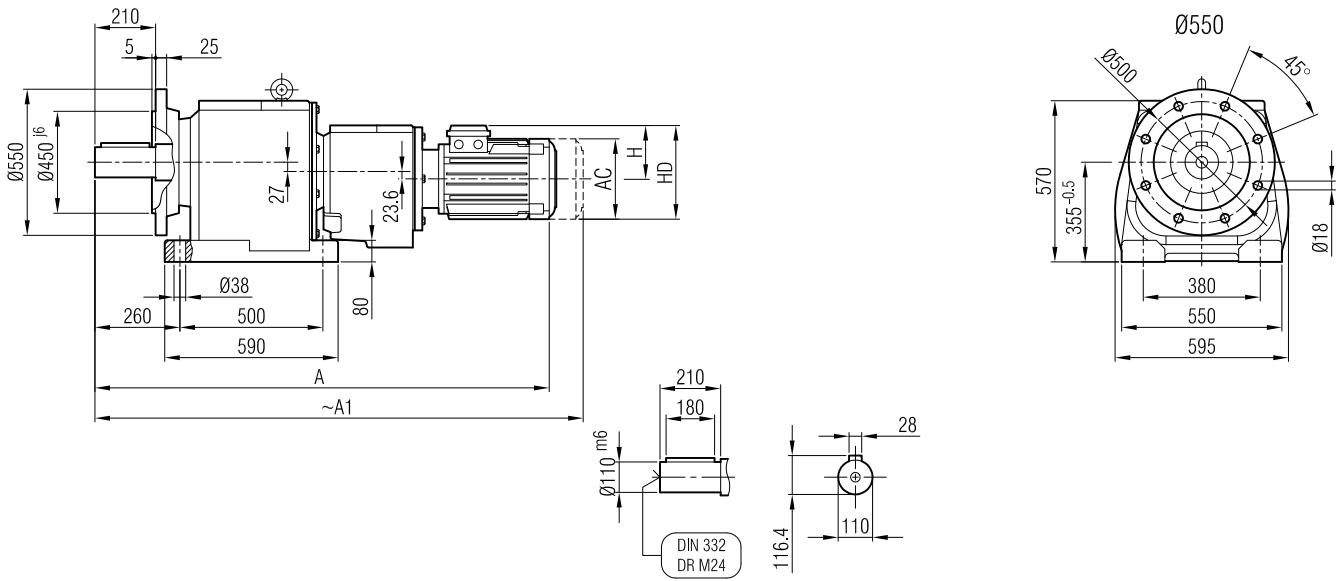
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 143 İR 82

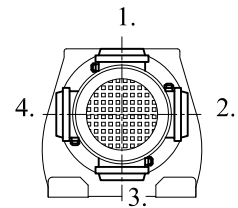




İRAFEM 143 İR 82



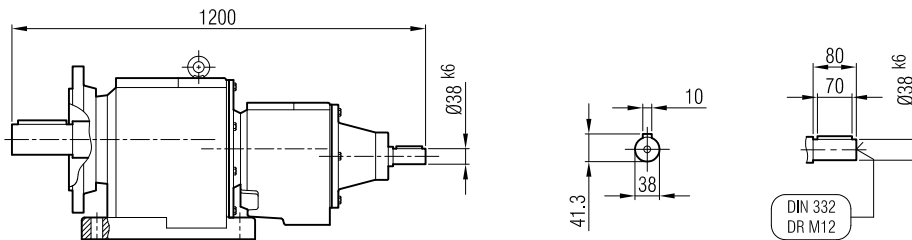
Terminal Box Positions
Posiciones de la caja de terminales

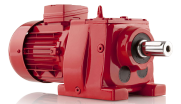


| | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M |
|----------------|------|------|------|------|-------|-------|-------|
| A | 1233 | 1261 | 1286 | 1326 | 1348 | 1410 | 1448 |
| A ₁ | 1302 | 1327 | 1352 | 1404 | 1431 | 1510 | 1548 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

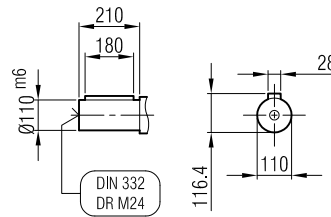
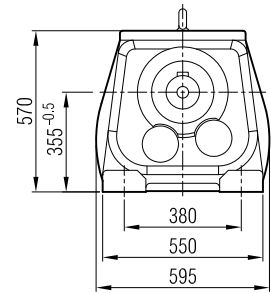
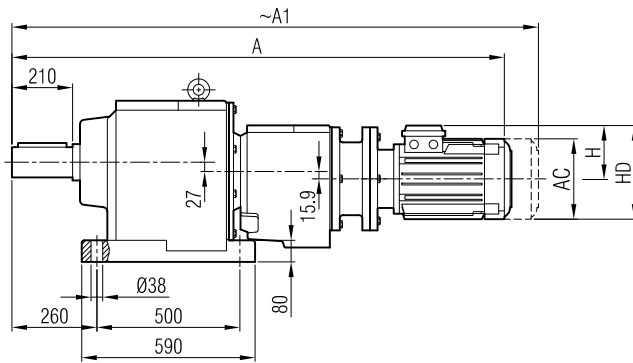
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 143 İR 82

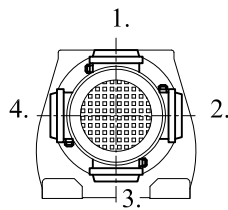




İRAPM 143 İR 72
İRAPM 143 İR 73



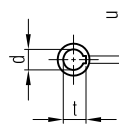
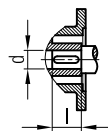
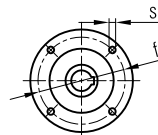
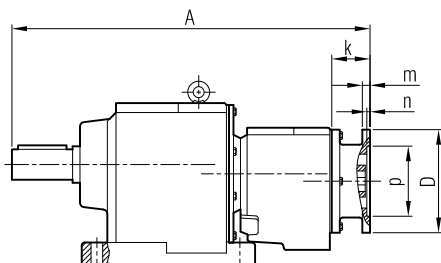
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|
| A | 1230 | 1263 | 1278 | 1303 | 1340 | 1360 | 1428 |
| A ₁ | 1281 | 1332 | 1344 | 1369 | 1418 | 1443 | 1528 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

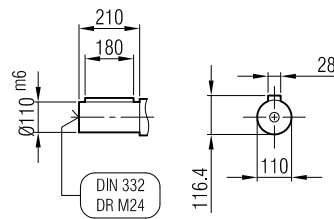
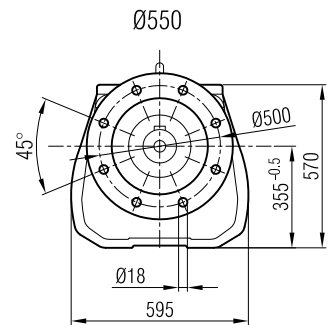
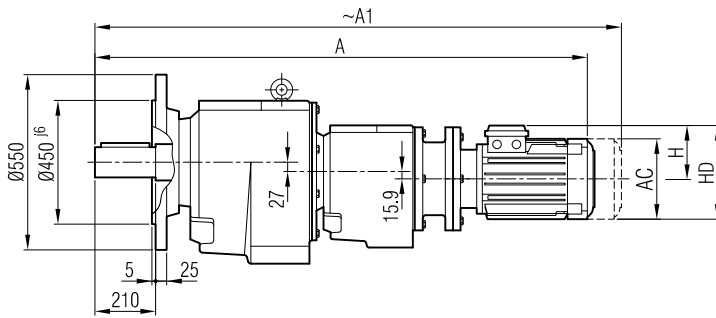
İRAP 142 İR 72 / İRAP 142 İR 73
İRAP 143 İR 72 / İRAP 143 İR 73



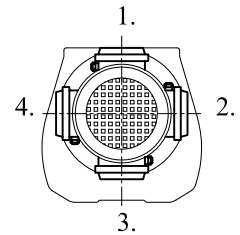
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 71/B5 | 1007 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1048 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 |



İRFPM 143 İR 72
İRFPM 143 İR 73



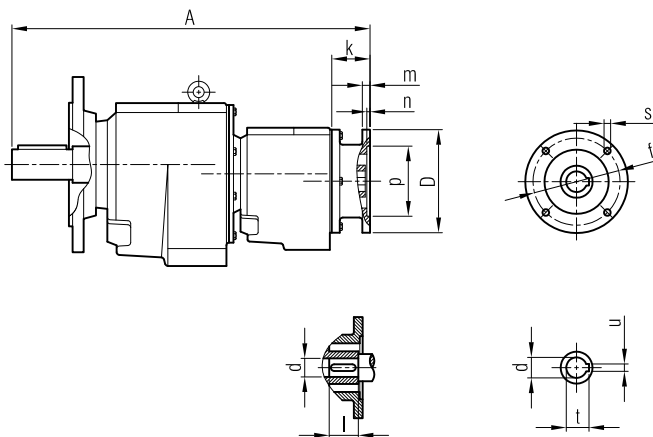
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|
| A | 1230 | 1263 | 1278 | 1303 | 1340 | 1360 | 1428 |
| A ₁ | 1281 | 1332 | 1344 | 1369 | 1418 | 1443 | 1528 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

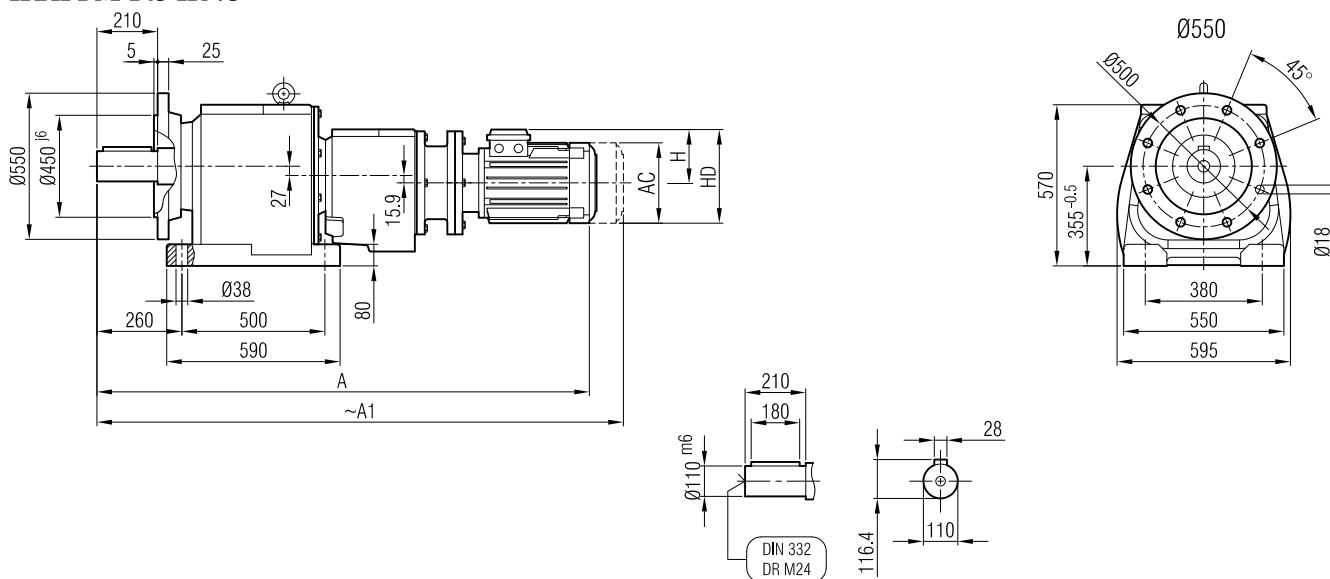
İRFP 142 İR 72 / İRFP 143 İR 73
İRFP 143 İR 72 / İRFP 143 İR 73



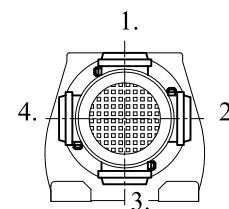
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 71/B5 | 1007 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1048 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 |



İRAFPM 143 İR 72
İRAFPM 143 İR 73



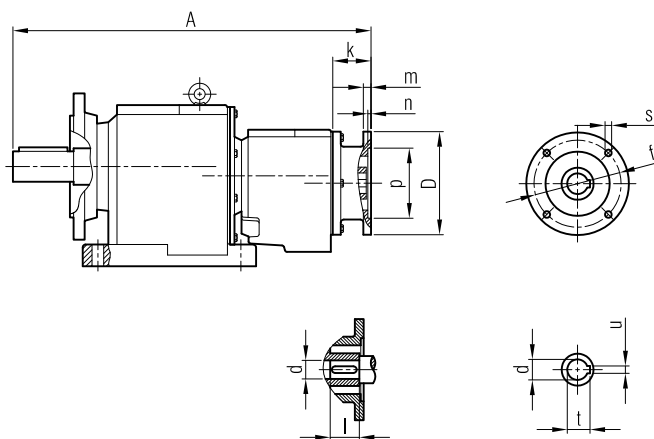
Terminal Box Positions
Posiciones de la caja de terminales



| | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 |
|----------------|-------|-------|---------|---------|--------|--------|----------|
| A | 1230 | 1263 | 1278 | 1303 | 1340 | 1360 | 1428 |
| A ₁ | 1281 | 1332 | 1344 | 1369 | 1418 | 1443 | 1528 |
| H | 111 | 118 | 126 | 126 | 134 | 145 | 168 |
| HD | 182 | 198 | 216 | 216 | 234 | 257 | 300 |
| AC | 138 | 156 | 176 | 176 | 194 | 218 | 257 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

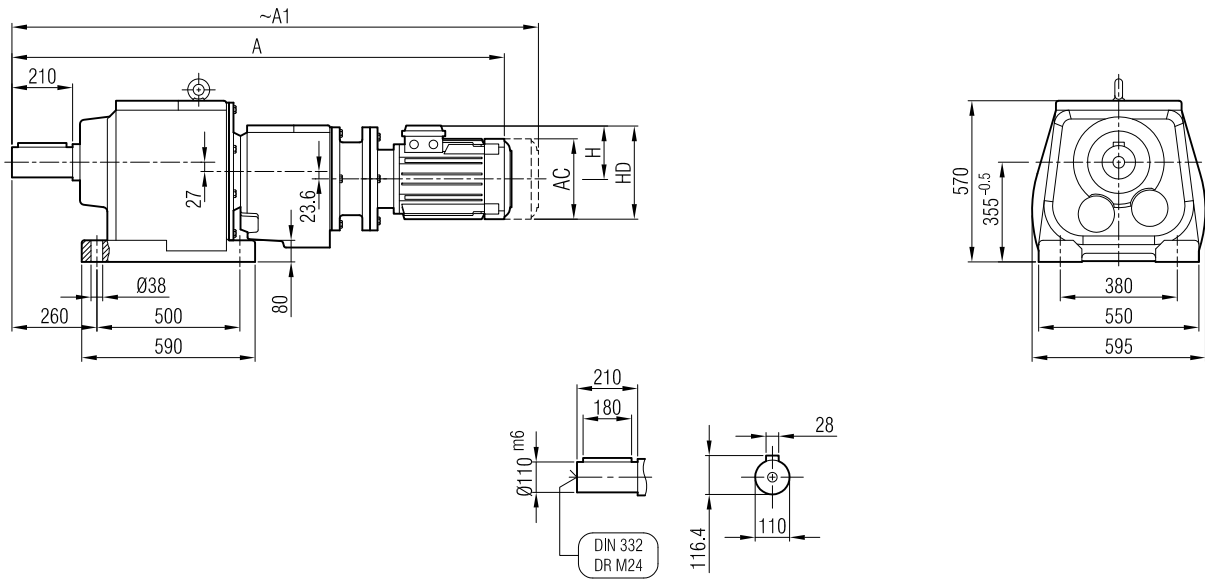
İRAFP 142 İR 72 / İRAFP 142 İR 73
İRAFP 143 İR 72 / İRAFP 143 İR 73



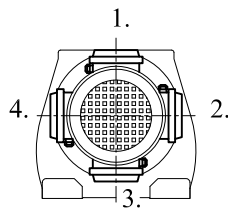
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|----|----|---|----|----|------|----|
| 71/B5 | 1007 | 110 | 130 | 160 | M8 | 55 | 10 | 4 | 14 | 30 | 16.3 | 5 |
| 80/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1019 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1024 | 180 | 215 | 250 | M12 | 72 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1048 | 230 | 265 | 300 | M12 | 96 | 17 | 5 | 38 | 80 | 41.3 | 10 |



İRAPM 143 İR 82



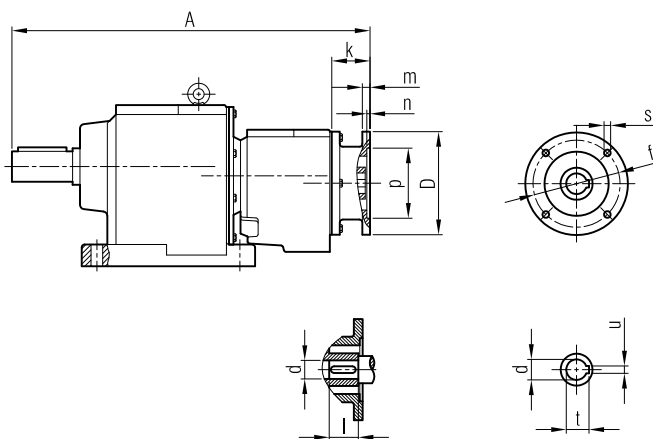
Terminal Box Positions
Posiciones de la caja de terminales



| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|---------|---------|--------|--------|----------|----------|----------|
| A | 1321 | 1336 | 1363 | 1401 | 1421 | 1486 | 1524 |
| A ₁ | 1390 | 1402 | 1427 | 1479 | 1504 | 1586 | 1624 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

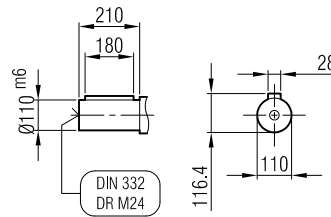
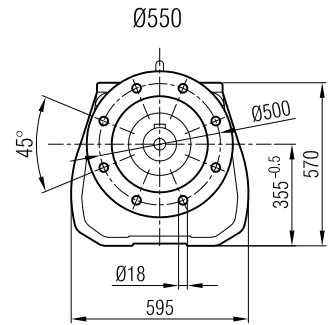
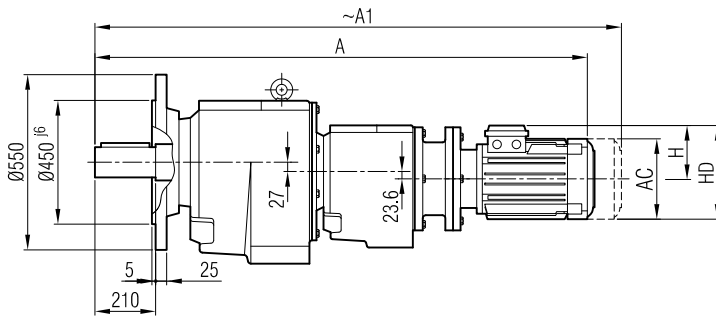
İRAP 143 İR 82



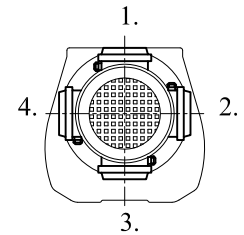
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 90/B5 | 1077 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1106 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1122 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRFPM 143 İR 82



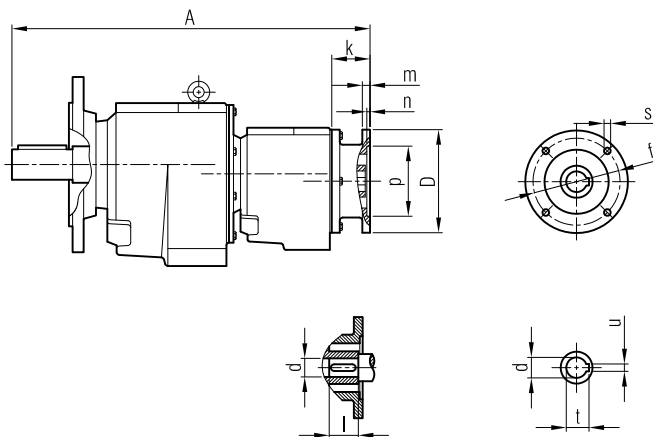
Terminal Box Positions
Posiciones de la caja de terminales



| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|---------|---------|--------|--------|----------|----------|----------|
| A | 1321 | 1336 | 1363 | 1401 | 1421 | 1486 | 1524 |
| A ₁ | 1390 | 1402 | 1427 | 1479 | 1504 | 1586 | 1624 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

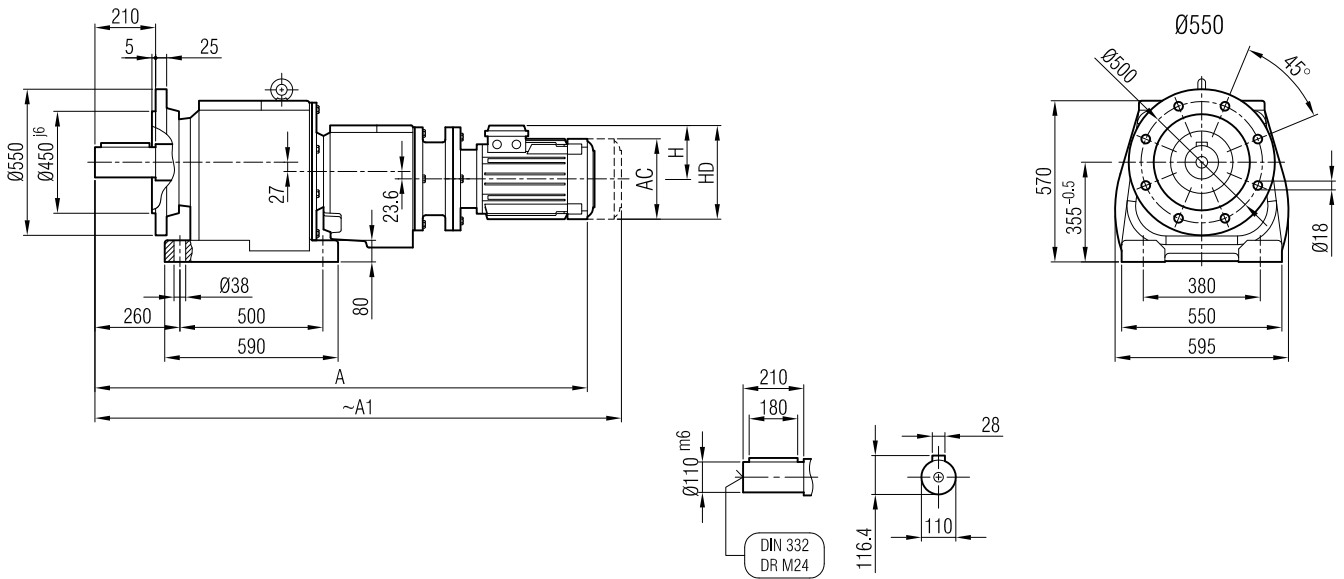
İRFP 143 İR 82



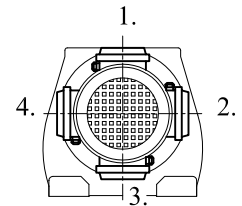
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 90/B5 | 1077 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1106 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1122 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAFPM 143 İR 82



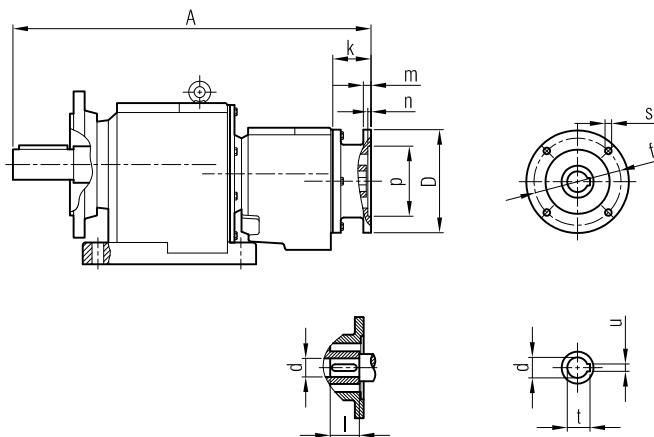
Terminal Box Positions
Posiciones de la caja de terminales



| | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|---------|---------|--------|--------|----------|----------|----------|
| A | 1321 | 1336 | 1363 | 1401 | 1421 | 1486 | 1524 |
| A ₁ | 1390 | 1402 | 1427 | 1479 | 1504 | 1586 | 1624 |
| H | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

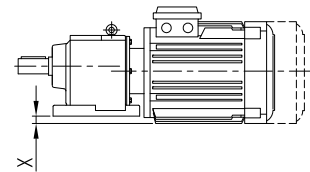
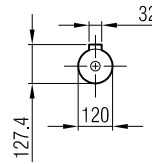
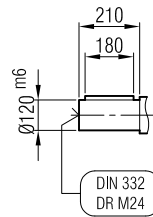
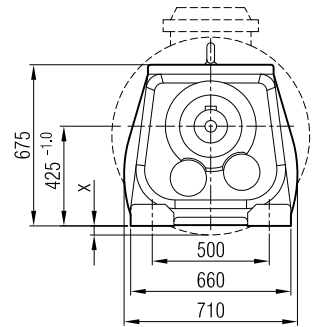
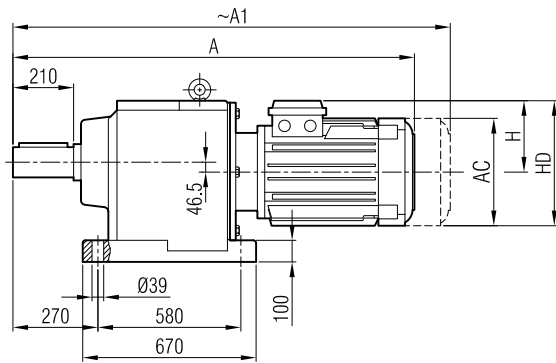
İRAFP 143 İR 82



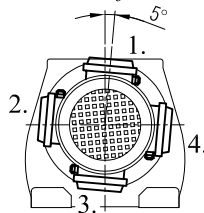
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 90/B5 | 1077 | 130 | 165 | 200 | M10 | 67 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1085 | 180 | 215 | 250 | M12 | 74 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1106 | 230 | 265 | 300 | M12 | 95 | 17 | 5 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1122 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAM 152
İRAM 153



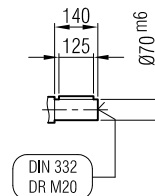
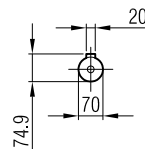
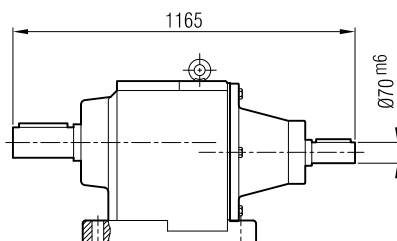
Terminal Box Positions
Posiciones de la caja de terminales



| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M | 315 S | 315 M |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| A | 1266 | 1310 | 1323 | 1361 | 1412 | 1445 | 1470 | 1548 | 1609 | 1609 | 1814 | 1814 |
| A ₁ | 1381 | 1425 | 1443 | 1481 | 1532 | 1565 | 1590 | 1668 | 1729 | 1809 | 2014 | 2014 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

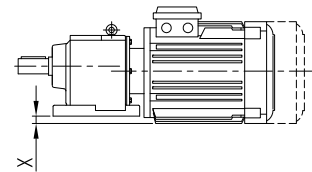
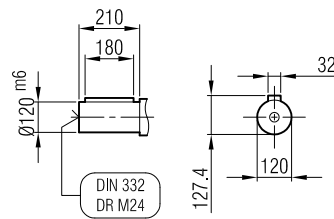
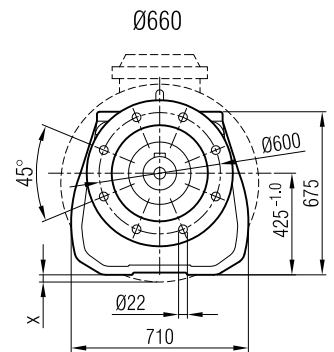
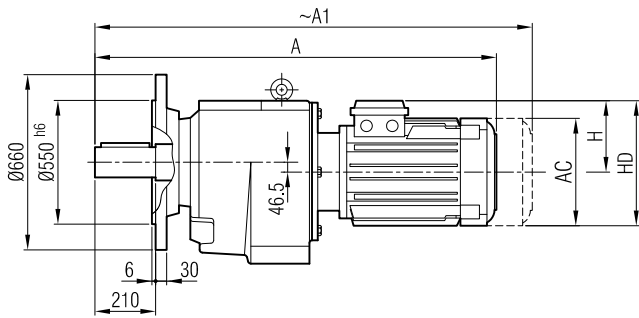
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 152
İRA 153

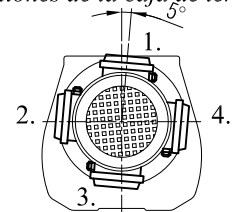




İRFM 152
İRFM 153



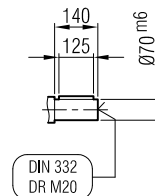
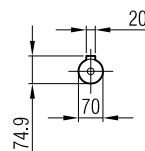
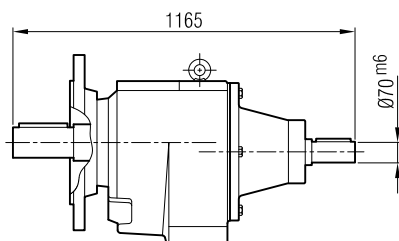
Terminal Box Positions
Posiciones de la caja de terminales

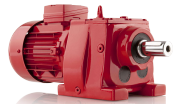


| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M | 315 S | 315 M |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| A | 1266 | 1310 | 1323 | 1361 | 1412 | 1445 | 1470 | 1548 | 1609 | 1609 | 1814 | 1814 |
| A ₁ | 1381 | 1425 | 1443 | 1481 | 1532 | 1565 | 1590 | 1668 | 1729 | 1809 | 2014 | 2014 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

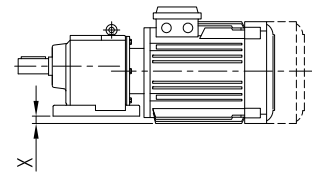
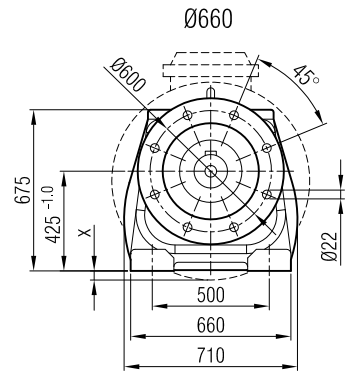
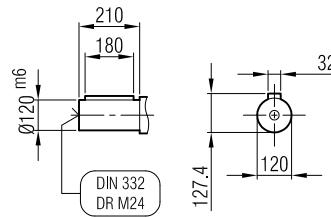
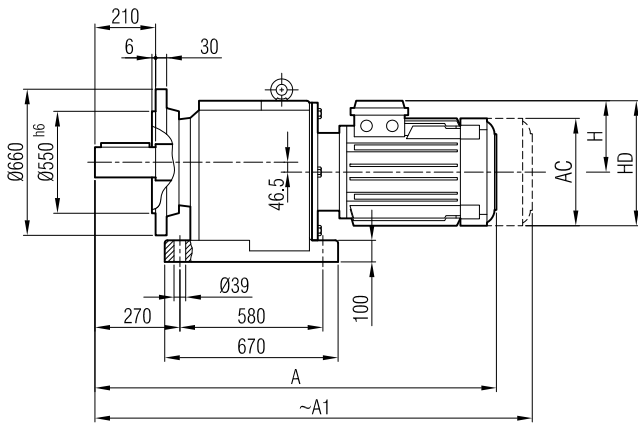
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 152
İRF 153

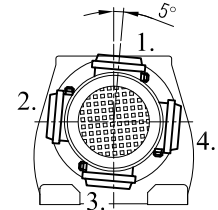




İRAF 152
İRAF 153



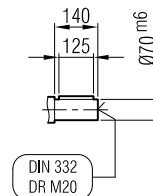
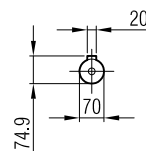
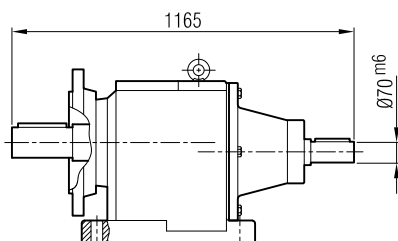
Terminal Box Positions
Posiciones de la caja de terminales



| | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M | 250 M | 280 S | 280 M | 315 S | 315 M |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| A | 1266 | 1310 | 1323 | 1361 | 1412 | 1445 | 1470 | 1548 | 1609 | 1609 | 1814 | 1814 |
| A ₁ | 1381 | 1425 | 1443 | 1481 | 1532 | 1565 | 1590 | 1668 | 1729 | 1809 | 2014 | 2014 |
| H | 220 | 220 | 241 | 241 | 277 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 477 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 390 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

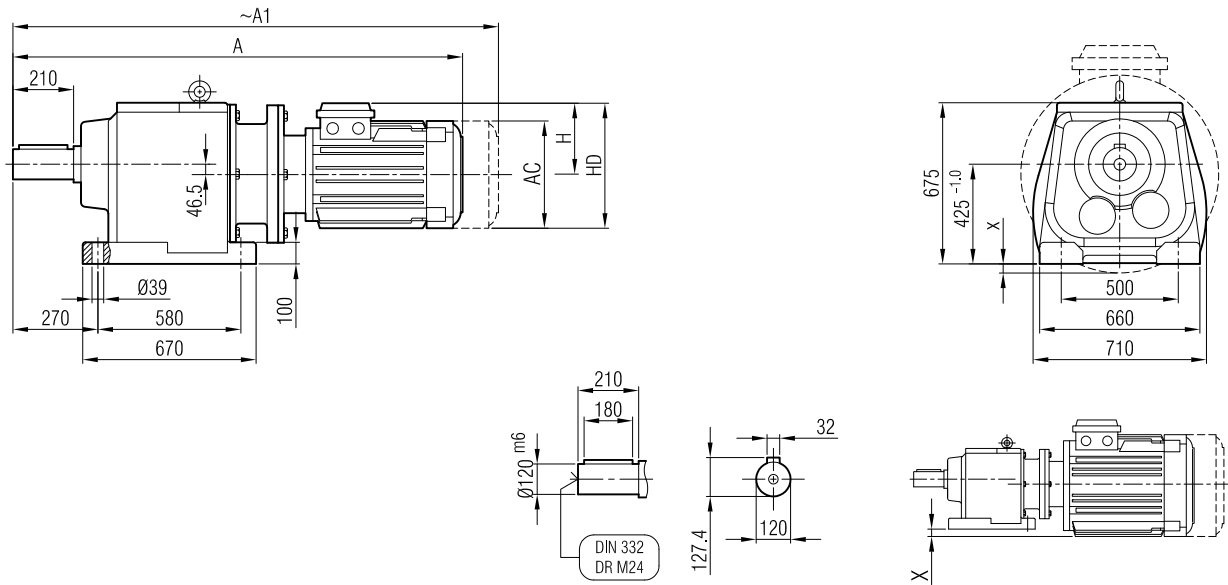
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 152
İRAF 153

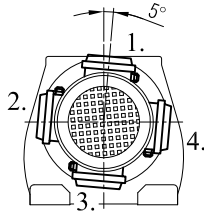




İRAPM 152
İRAPM 153



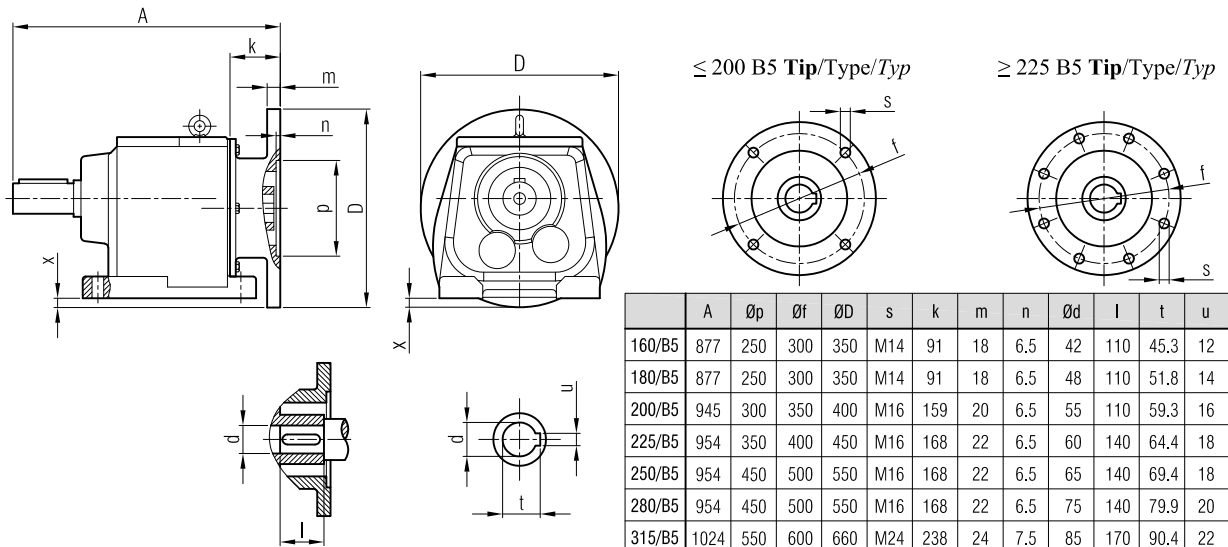
Terminal Box Positions
Posiciones de la caja de terminales



| | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 | 315 S/B5 | 315 M/B5 |
|----|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|----------|----------|
| A | 1367 | 1411 | 1424 | 1462 | 1582 | 1609 | 1634 | 1710 | 1772 | 1772 | 2004 | 2004 |
| A1 | 1482 | 1526 | 1544 | 1582 | 1702 | 1729 | 1754 | 1830 | 1892 | 1972 | 2204 | 2204 |
| H | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| X | - | - | - | - | - | - | - | - | - | - | - | - |

Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

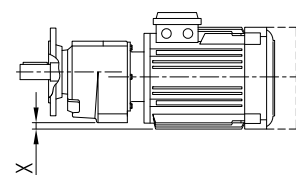
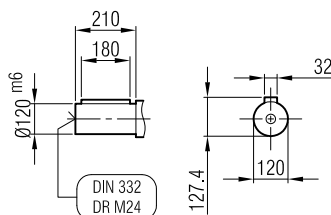
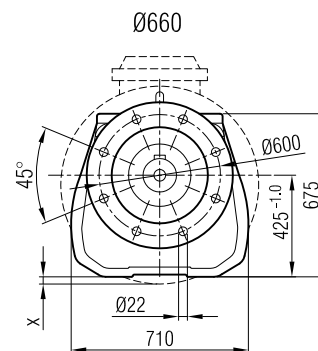
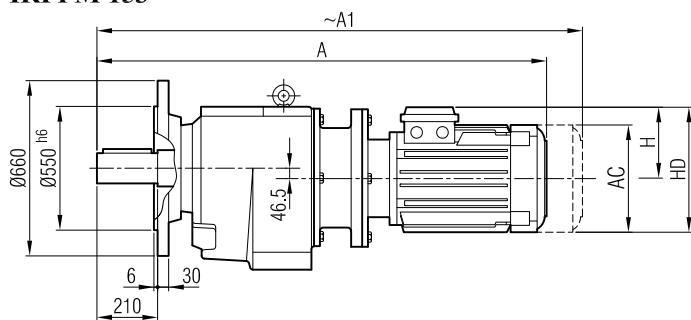
İRAP 152
İRAP 153



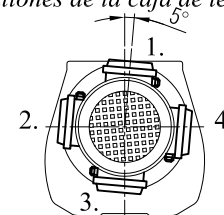
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 160/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 945 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 954 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |
| 315/B5 | 1024 | 550 | 600 | 660 | M24 | 238 | 24 | 7.5 | 85 | 170 | 90.4 | 22 | - |



İRFPM 152
İRFPM 153



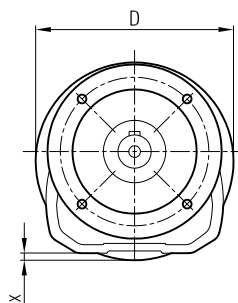
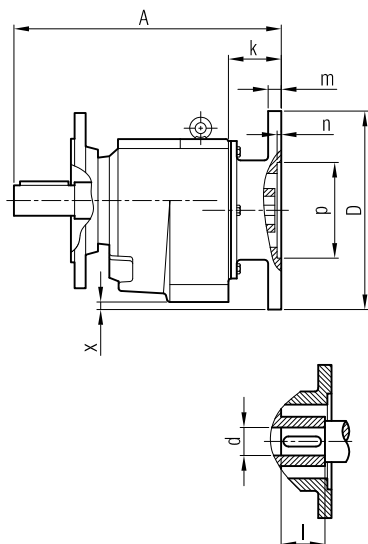
Terminal Box Positions
Posiciones de la caja de terminales



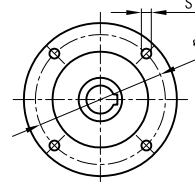
| | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 | 315 S/B5 | 315 M/B5 |
|----------------|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|----------|----------|
| A | 1367 | 1411 | 1424 | 1462 | 1582 | 1609 | 1634 | 1710 | 1772 | 1772 | 2004 | 2004 |
| A ₁ | 1482 | 1526 | 1544 | 1582 | 1702 | 1729 | 1754 | 1830 | 1892 | 1972 | 2204 | 2204 |
| H | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

İRFP 152
İRFP 153

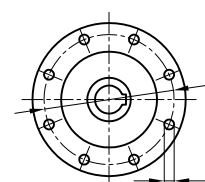
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



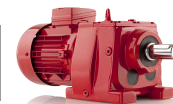
≤ 200 B5 Tip/Type/Typ



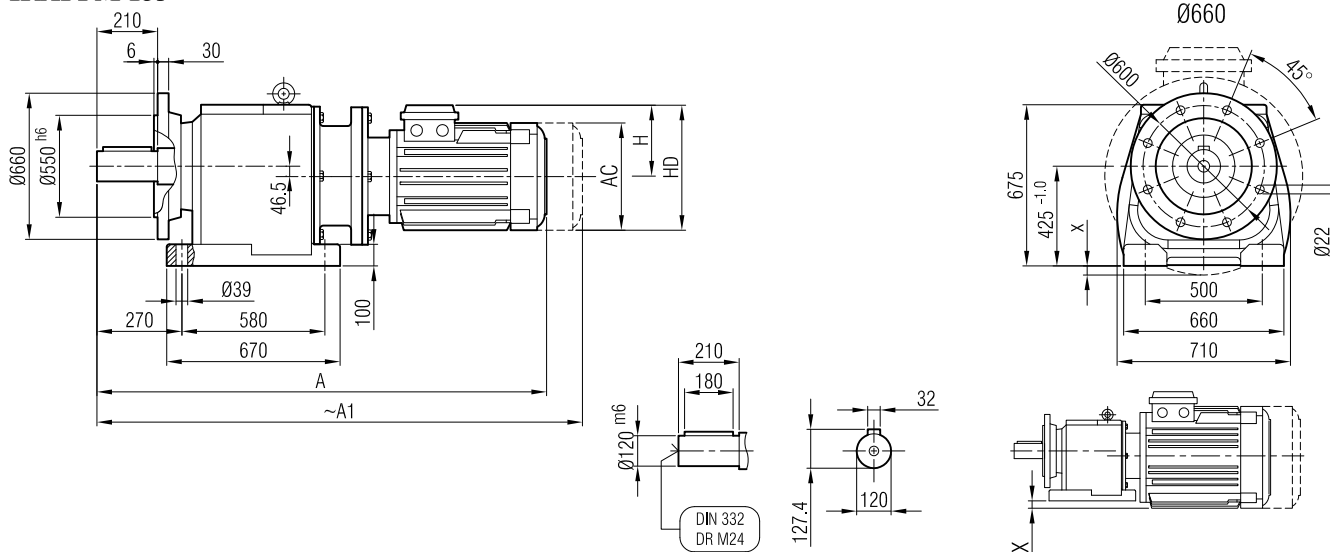
≥ 225 B5 Tip/Type/Typ



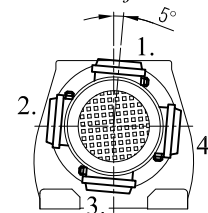
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u | x |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|---|
| 160/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 945 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 954 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |
| 315/B5 | 1024 | 550 | 600 | 660 | M24 | 238 | 24 | 7.5 | 85 | 170 | 90.4 | 22 | - |



İRAFPM 152
İRAFPM 153



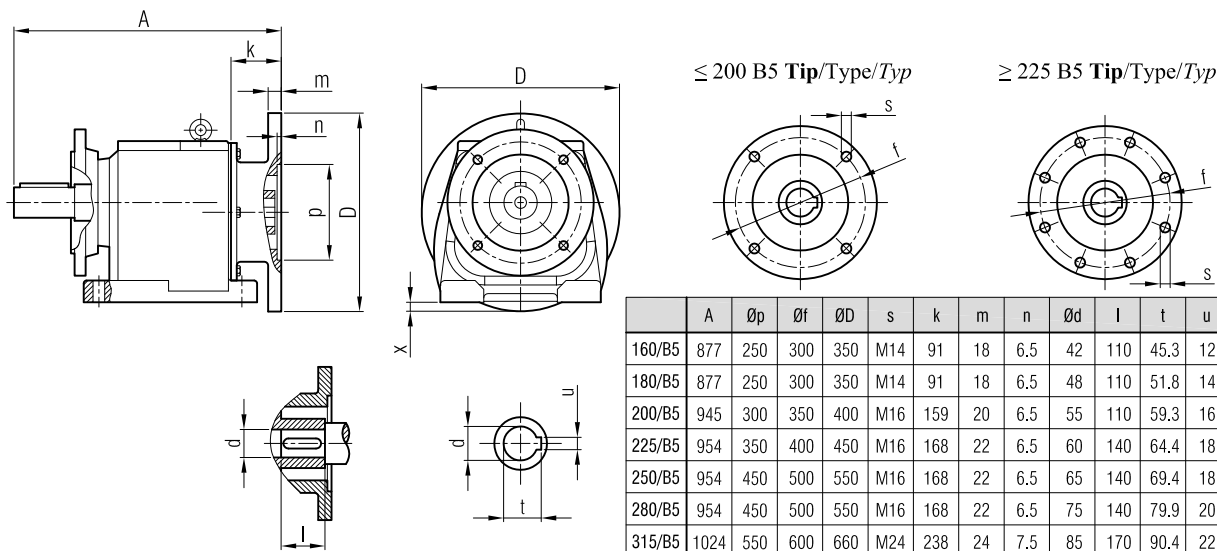
Terminal Box Positions
Posiciones de la caja de terminales



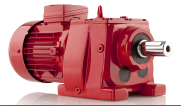
| | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 | 250/B5 | 280 S/B5 | 280 M/B5 | 315 S/B5 | 315 M/B5 |
|----------------|----------|----------|----------|----------|--------|----------|----------|--------|----------|----------|----------|----------|
| A | 1367 | 1411 | 1424 | 1462 | 1582 | 1609 | 1634 | 1710 | 1772 | 1772 | 2004 | 2004 |
| A ₁ | 1482 | 1526 | 1544 | 1582 | 1702 | 1729 | 1754 | 1830 | 1892 | 1972 | 2204 | 2204 |
| H | 220 | 220 | 241 | 241 | 241 | 285 | 285 | 322 | 350 | 350 | 510 | 510 |
| HD | 380 | 380 | 421 | 421 | 421 | 510 | 510 | 572 | 630 | 630 | 825 | 825 |
| AC | 310 | 310 | 348 | 348 | 348 | 434 | 434 | 480 | 544 | 544 | 614 | 614 |
| x | - | - | - | - | - | - | - | - | - | - | - | - |

İRAFP 152
İRAFP 153

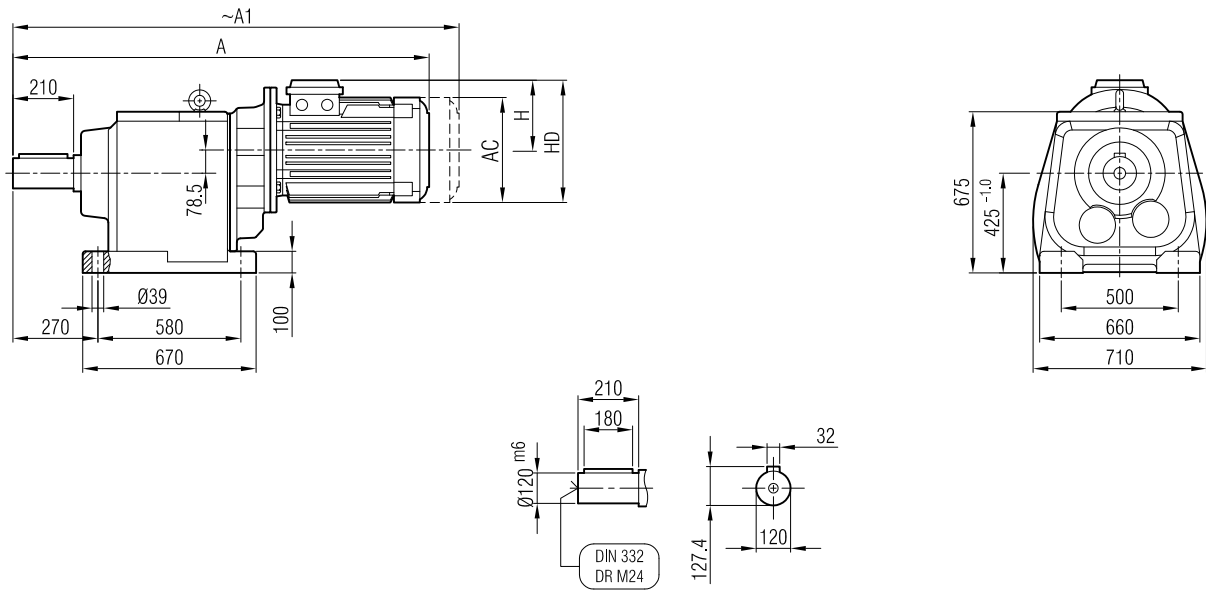
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno



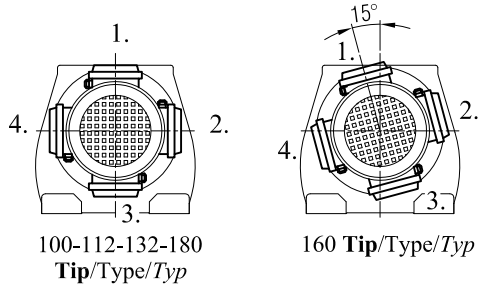
| | A | Ø _p | Ø _f | Ø _D | s | k | m | n | Ø _d | l | t | u | x |
|--------|------|----------------|----------------|----------------|-----|-----|----|-----|----------------|-----|------|----|---|
| 160/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 | - |
| 180/B5 | 877 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 | - |
| 200/B5 | 945 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 | - |
| 225/B5 | 954 | 350 | 400 | 450 | M16 | 168 | 22 | 6.5 | 60 | 140 | 64.4 | 18 | - |
| 250/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 65 | 140 | 69.4 | 18 | - |
| 280/B5 | 954 | 450 | 500 | 550 | M16 | 168 | 22 | 6.5 | 75 | 140 | 79.9 | 20 | - |
| 315/B5 | 1024 | 550 | 600 | 660 | M24 | 238 | 24 | 7.5 | 85 | 170 | 90.4 | 22 | - |



İRAM 154



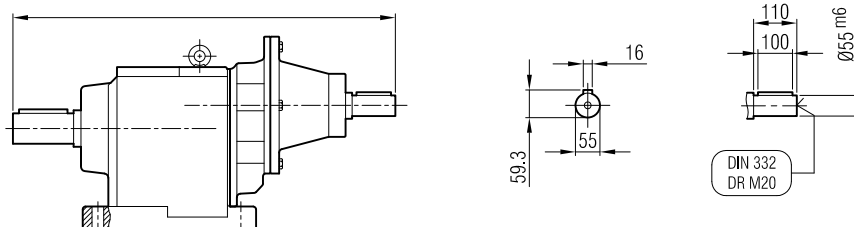
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|------|------|-------|-------|-------|-------|-------|-------|
| A | 1217 | 1237 | 1278 | 1316 | 1388 | 1432 | 1460 | 1498 |
| A ₁ | 1295 | 1320 | 1378 | 1416 | 1503 | 1547 | 1580 | 1618 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |

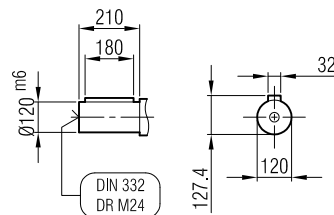
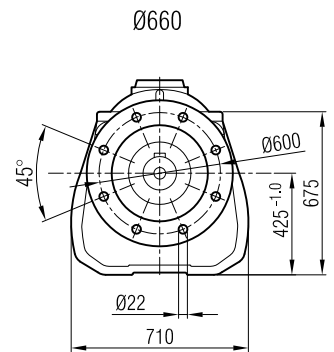
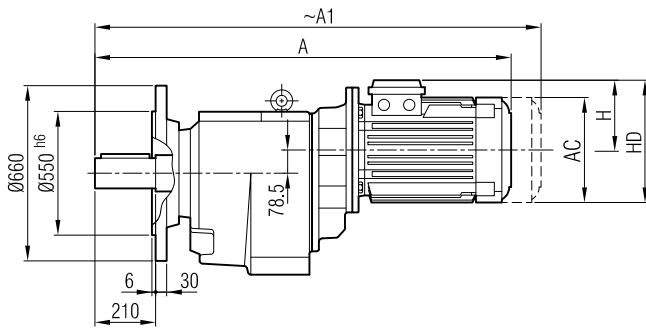
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 154

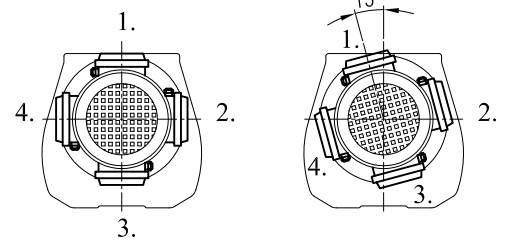




İRFM 154



Terminal Box Positions
Posiciones de la caja de terminales



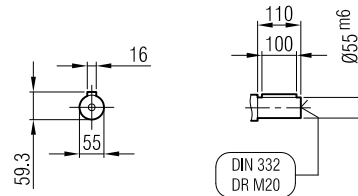
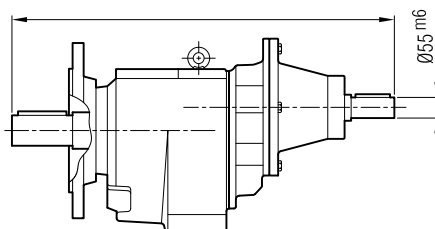
100-112-132-180
Tip/Type/Typ

160 **Tip/Type/Typ**

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|------|------|-------|-------|-------|-------|-------|-------|
| A | 1217 | 1237 | 1278 | 1316 | 1388 | 1432 | 1460 | 1498 |
| A ₁ | 1295 | 1320 | 1378 | 1416 | 1503 | 1547 | 1580 | 1618 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |

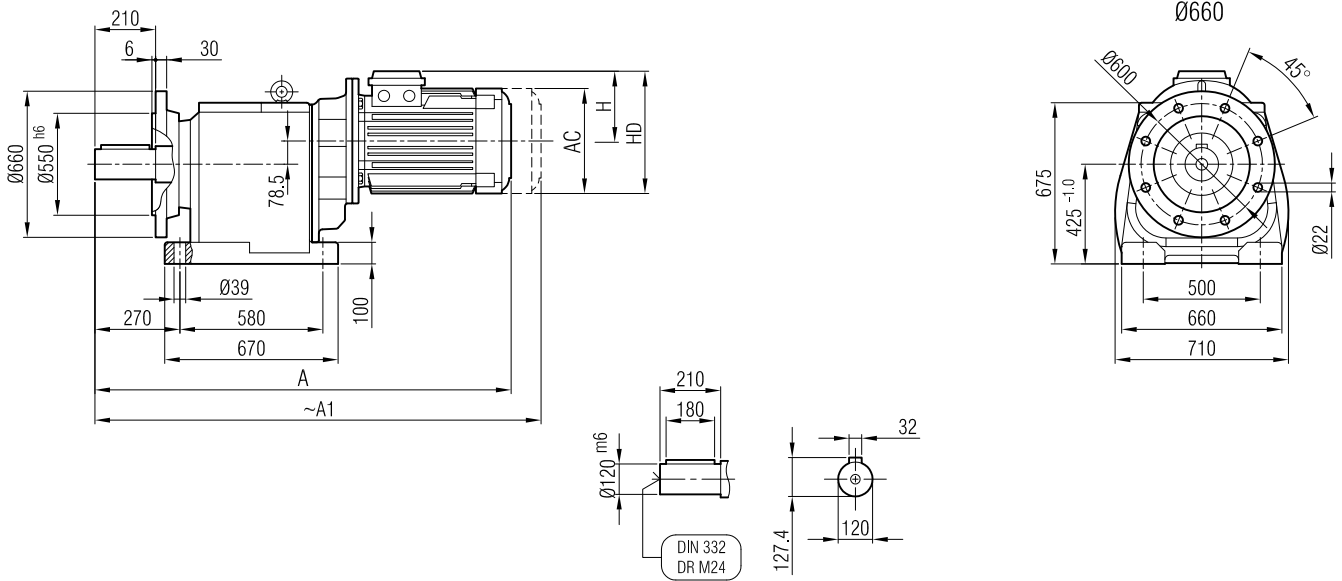
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 154

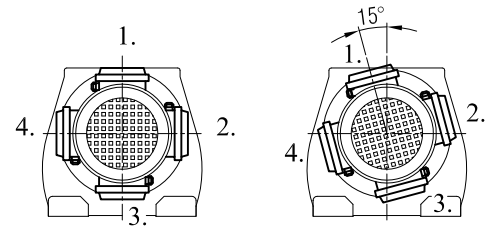




İRAFEM 154



Terminal Box Positions
Posiciones de la caja de terminales



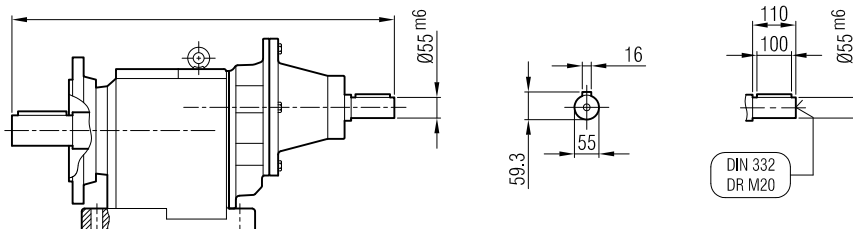
100-112-132-180
Tip/Type/Typ

160 Tip/Type/Typ

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |
|----------------|------|------|-------|-------|-------|-------|-------|-------|
| A | 1217 | 1237 | 1278 | 1316 | 1388 | 1432 | 1460 | 1498 |
| A ₁ | 1295 | 1320 | 1378 | 1416 | 1503 | 1547 | 1580 | 1618 |
| H | 134 | 145 | 168 | 168 | 220 | 220 | 241 | 241 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | 421 | 421 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | 348 | 348 |

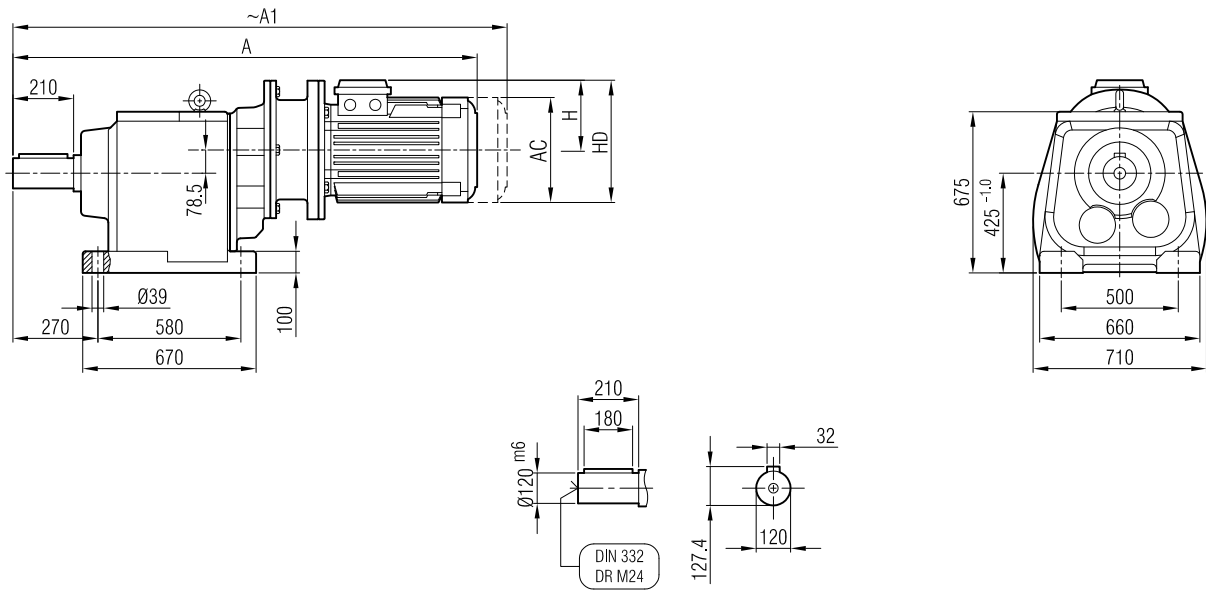
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 154

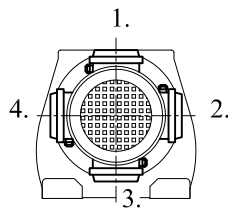




İRAPM 154



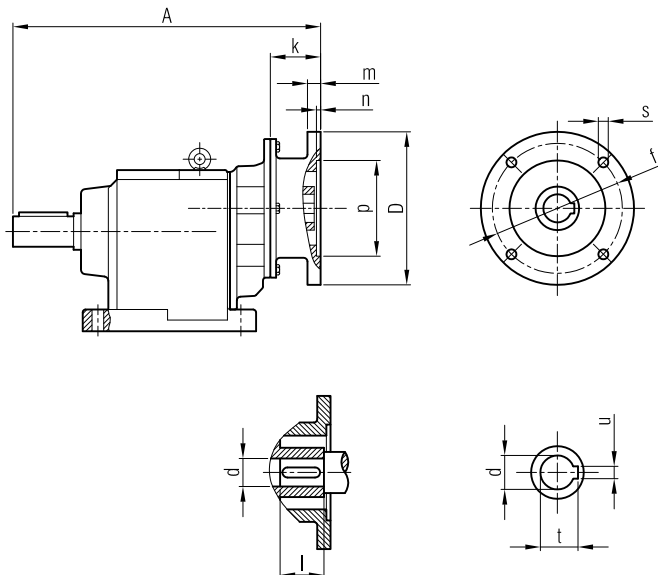
Terminal Box Positions
Posiciones de la caja de terminales



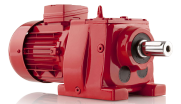
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----------------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 1279 | 1299 | 1370 | 1408 | 1487 | 1531 | 1544 | 1582 |
| A ₁ | 1357 | 1382 | 1470 | 1508 | 1602 | 1646 | 1664 | 1702 |
| H | 220 | 220 | 241 | 241 | 241 | 220 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 | 380 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 | 310 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

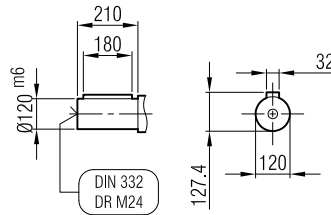
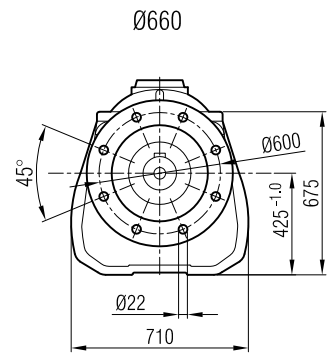
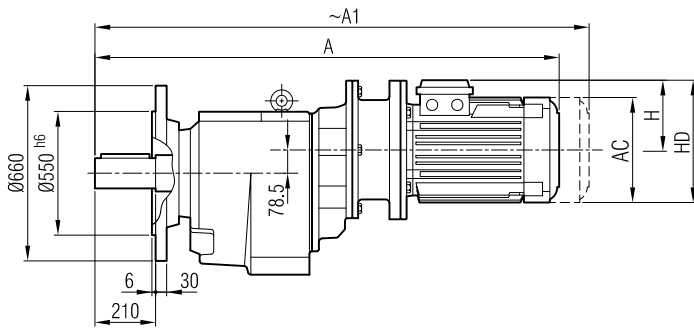
İRAP 154



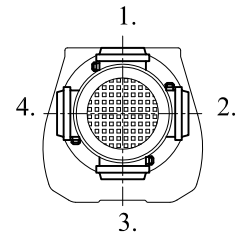
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 990 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |
| 180/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 |



IRFPM 154



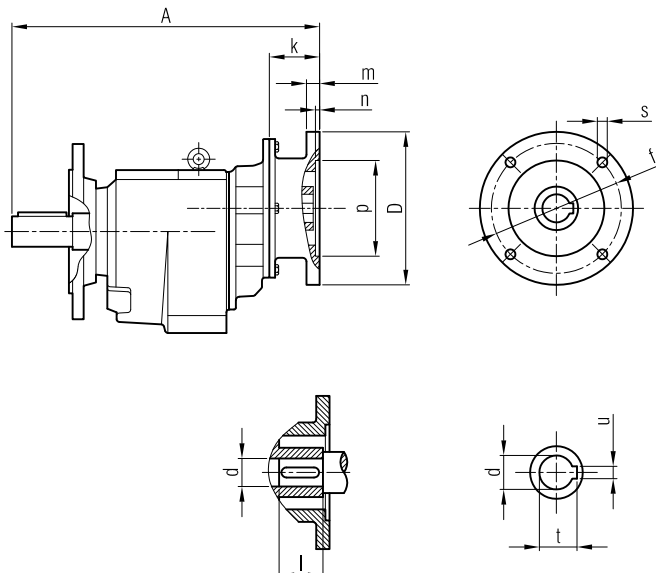
Terminal Box Positions
Posiciones de la caja de terminales



| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----------------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 1279 | 1299 | 1370 | 1408 | 1487 | 1531 | 1544 | 1582 |
| A ₁ | 1357 | 1382 | 1470 | 1508 | 1602 | 1646 | 1664 | 1702 |
| H | 220 | 220 | 241 | 241 | 241 | 220 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 | 380 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 | 310 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

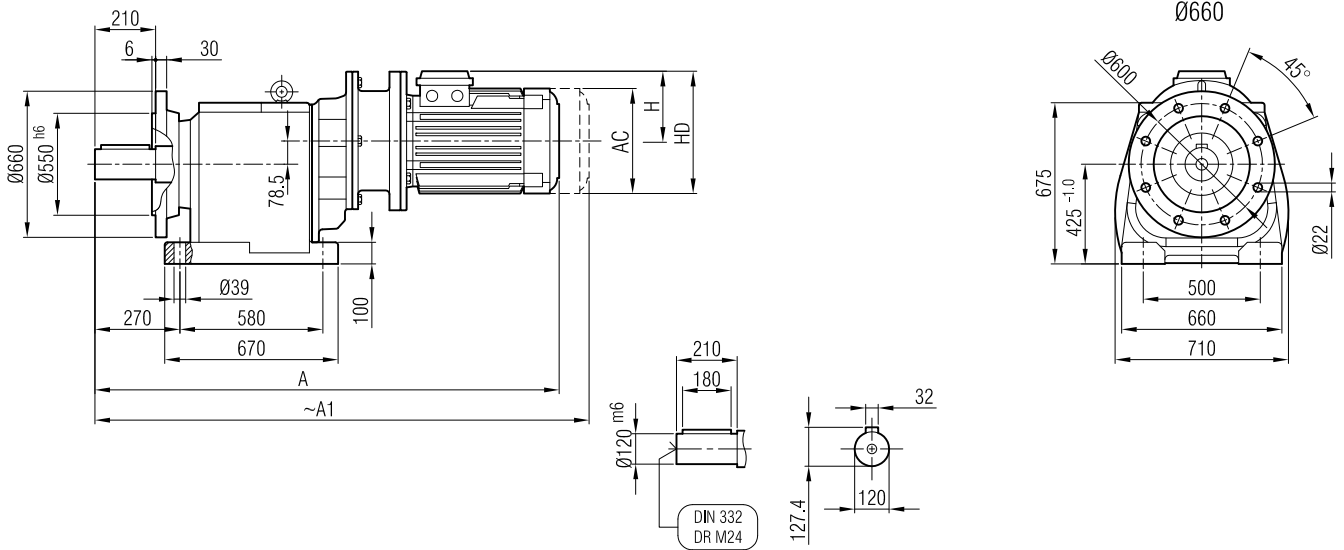
IRFP 154



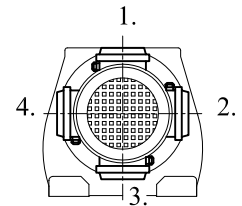
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 990 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |
| 180/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 |



İRAFPM 154



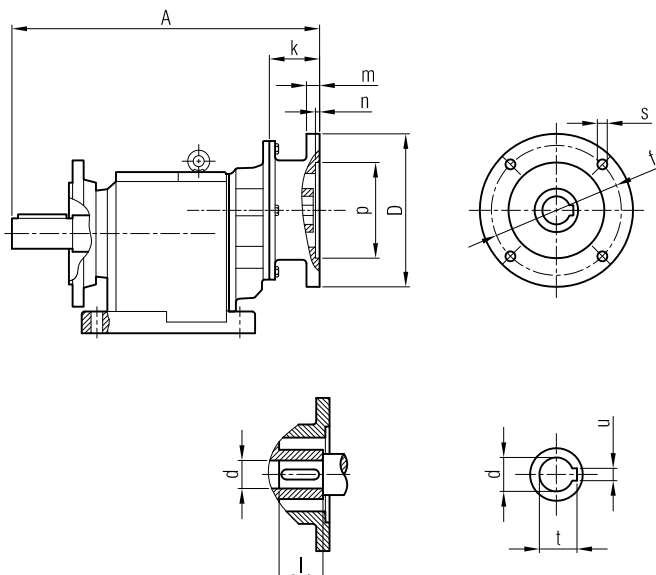
Terminal Box Positions
Posiciones de la caja de terminales



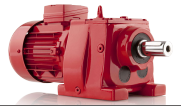
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |
|----------------|--------|--------|----------|----------|----------|----------|----------|----------|
| A | 1279 | 1299 | 1370 | 1408 | 1487 | 1531 | 1544 | 1582 |
| A ₁ | 1357 | 1382 | 1470 | 1508 | 1602 | 1646 | 1664 | 1702 |
| H | 220 | 220 | 241 | 241 | 241 | 220 | 241 | 241 |
| HD | 380 | 380 | 421 | 421 | 421 | 380 | 421 | 421 |
| AC | 310 | 310 | 348 | 348 | 348 | 310 | 348 | 348 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

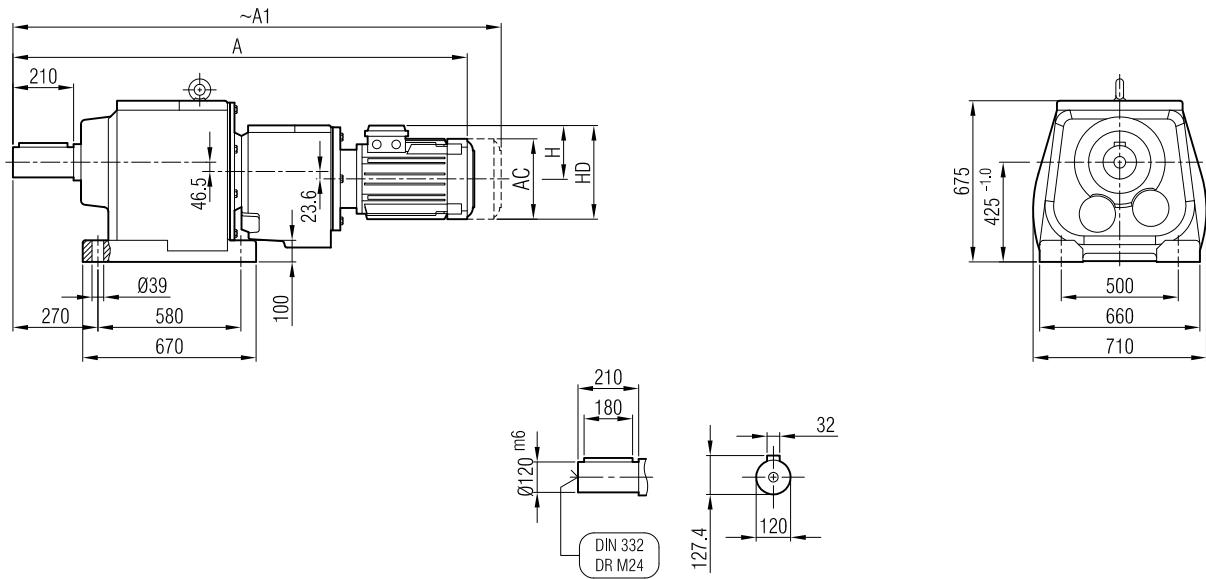
İRAFP 154



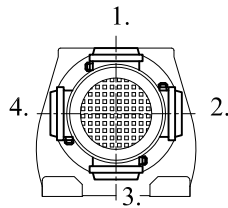
| | A | Ø _p | Ø _f | Ø _D | s | k | m | n | Ø _d | l | t | u |
|--------|-----|----------------|----------------|----------------|-----|----|----|-----|----------------|-----|------|----|
| 100/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 963 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 990 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |
| 180/B5 | 997 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 48 | 110 | 51.8 | 14 |



İRAM 153 İR 92
İRAM 153 İR 93



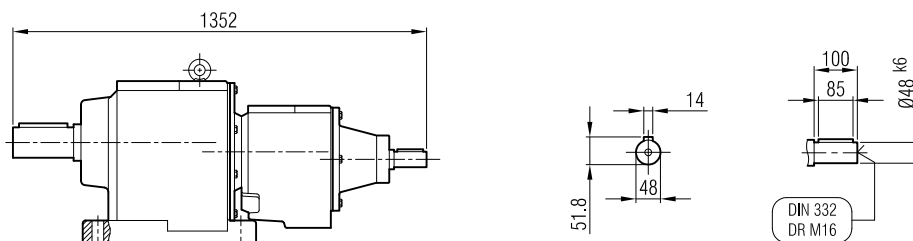
Terminal Box Positions
Posiciones de la caja de terminales

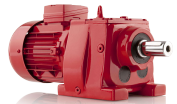


| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1423 | 1446 | 1498 | 1536 | 1626 | | |
| A ₁ | 1501 | 1529 | 1598 | 1636 | 1741 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

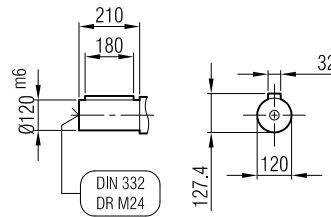
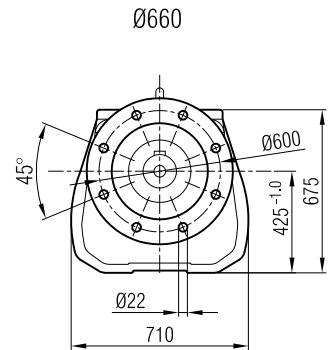
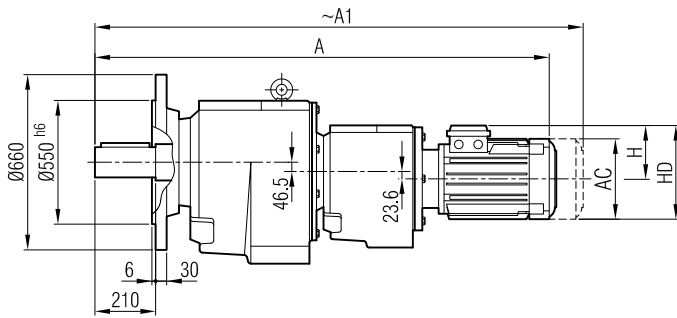
Dimension "A1" is for motors with brake
La dimensión "A1" es para motores con freno

İRA 152 İR 92 / İRA 152 İR 93
İRA 153 İR 92 / İRA 153 İR 93

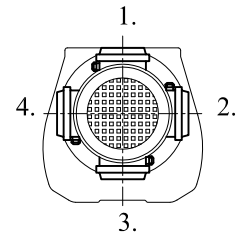




İRFM 153 İR 92
İRFM 153 İR 93



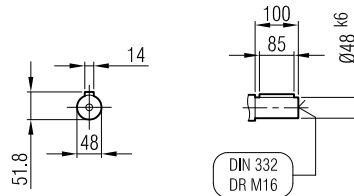
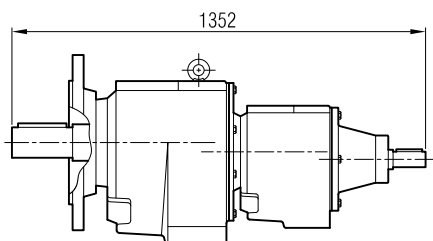
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1423 | 1446 | 1498 | 1536 | 1626 | | |
| A ₁ | 1501 | 1529 | 1598 | 1636 | 1741 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

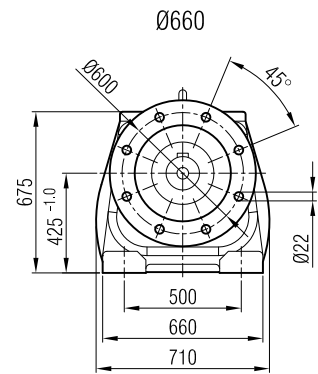
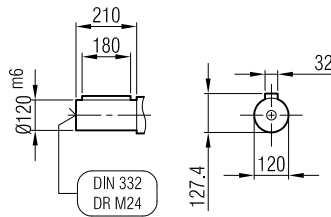
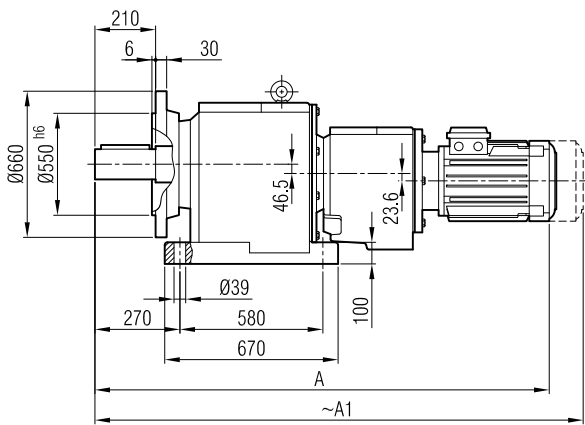
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 152 İR 92 / İRF 153 İR 93
İRF 153 İR 92 / İRF 153 İR 93

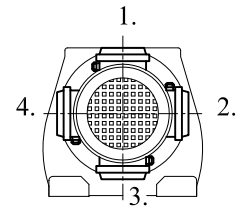




İRAFM 153 İR 92
İRAFM 153 İR 93



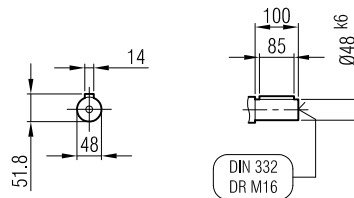
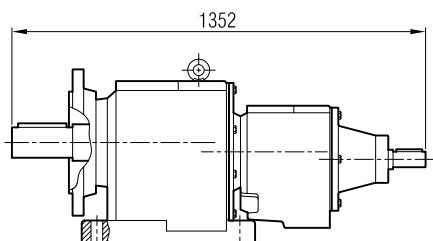
Terminal Box Positions
Posiciones de la caja de terminales



| | 100 | 112 | 132 S | 132 M | 160 M | | |
|----------------|------|------|-------|-------|-------|--|--|
| A | 1423 | 1446 | 1498 | 1536 | 1626 | | |
| A ₁ | 1501 | 1529 | 1598 | 1636 | 1741 | | |
| H | 134 | 145 | 168 | 168 | 220 | | |
| HD | 234 | 257 | 300 | 300 | 380 | | |
| AC | 194 | 218 | 257 | 257 | 310 | | |

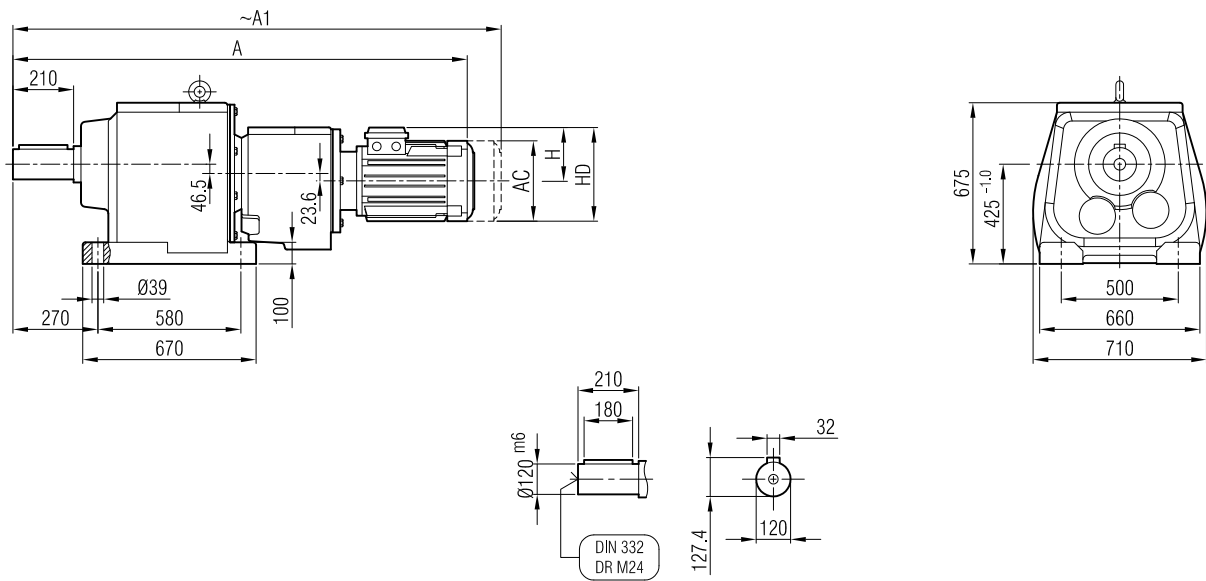
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 152 İR 92 / İRAF 152 İR 93
İRAF 153 İR 92 / İRAF 153 İR 93

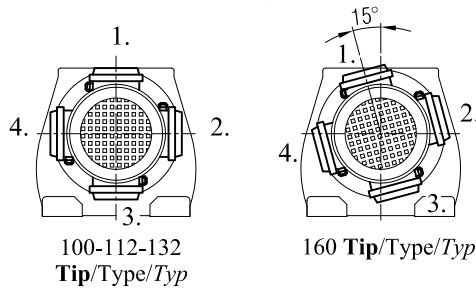




İRAM 153 İR 103



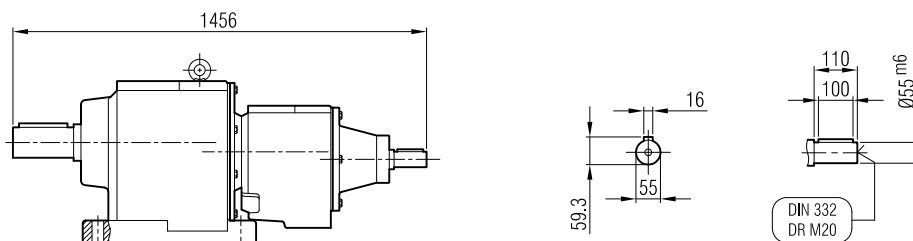
Terminal Box Positions
Posiciones de la caja de terminales

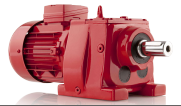


| | 100 | 112 | 132 S | 132 M | 160 M | 160 L |
|----------------|------|------|-------|-------|-------|-------|
| A | 1497 | 1517 | 1558 | 1596 | 1668 | 1712 |
| A ₁ | 1575 | 1600 | 1658 | 1696 | 1783 | 1827 |
| H | 134 | 145 | 168 | 168 | 220 | 220 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 |

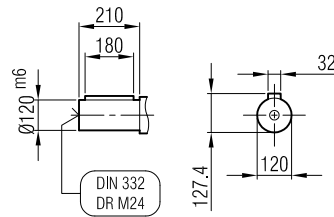
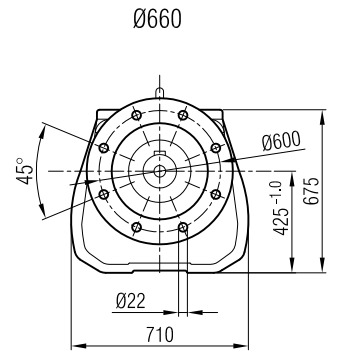
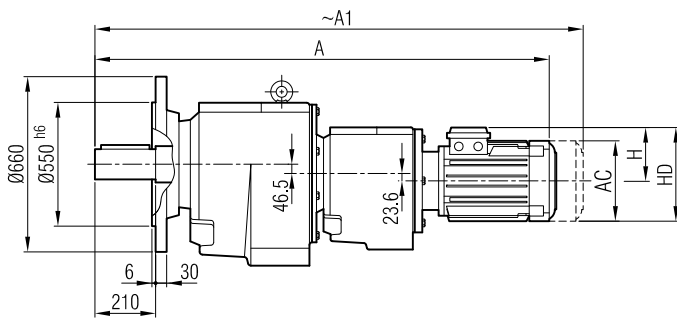
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRA 153 İR 103

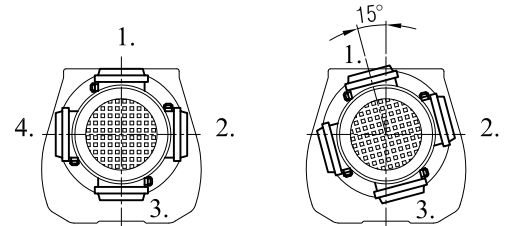




İRFM 153 İR 103



Terminal Box Positions
Posiciones de la caja de terminales



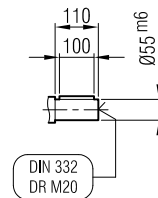
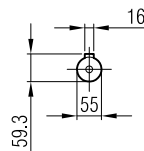
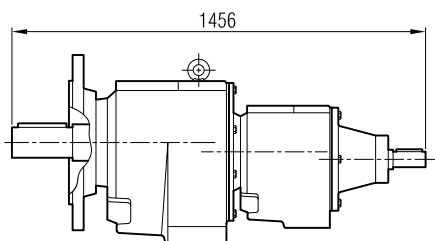
100-112-132
Tip/Type/Typ

160 Tip/Type/Typ

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L |
|----------------|------|------|-------|-------|-------|-------|
| A | 1497 | 1517 | 1558 | 1596 | 1668 | 1712 |
| A ₁ | 1575 | 1600 | 1658 | 1696 | 1783 | 1827 |
| H | 134 | 145 | 168 | 168 | 220 | 220 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 |

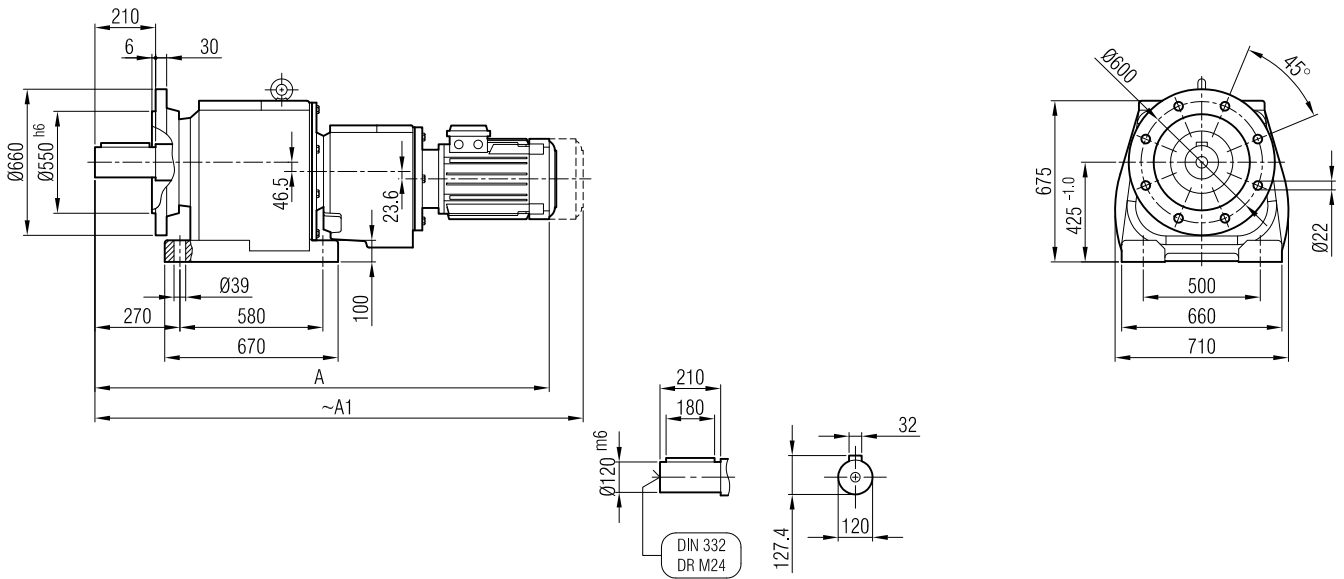
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRF 153 İR 103

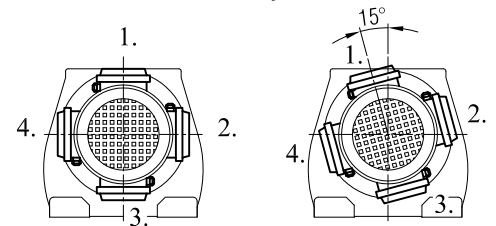




İRAFEM 153 İR 103



Terminal Box Positions
Posiciones de la caja de terminales



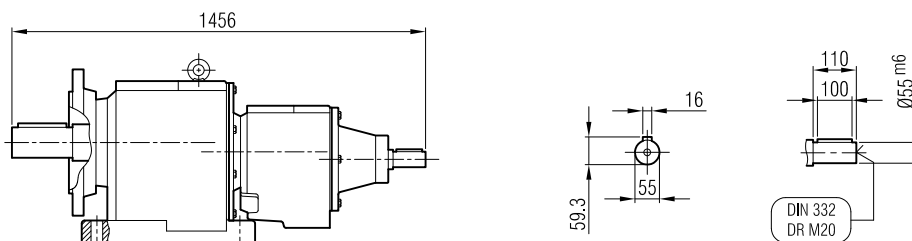
100-112-132
Tip/Type/Typ

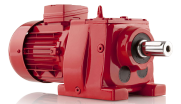
160 Tip/Type/Typ

| | 100 | 112 | 132 S | 132 M | 160 M | 160 L |
|----------------|------|------|-------|-------|-------|-------|
| A | 1497 | 1517 | 1558 | 1596 | 1668 | 1712 |
| A ₁ | 1575 | 1600 | 1658 | 1696 | 1783 | 1827 |
| H | 134 | 145 | 168 | 168 | 220 | 220 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 |

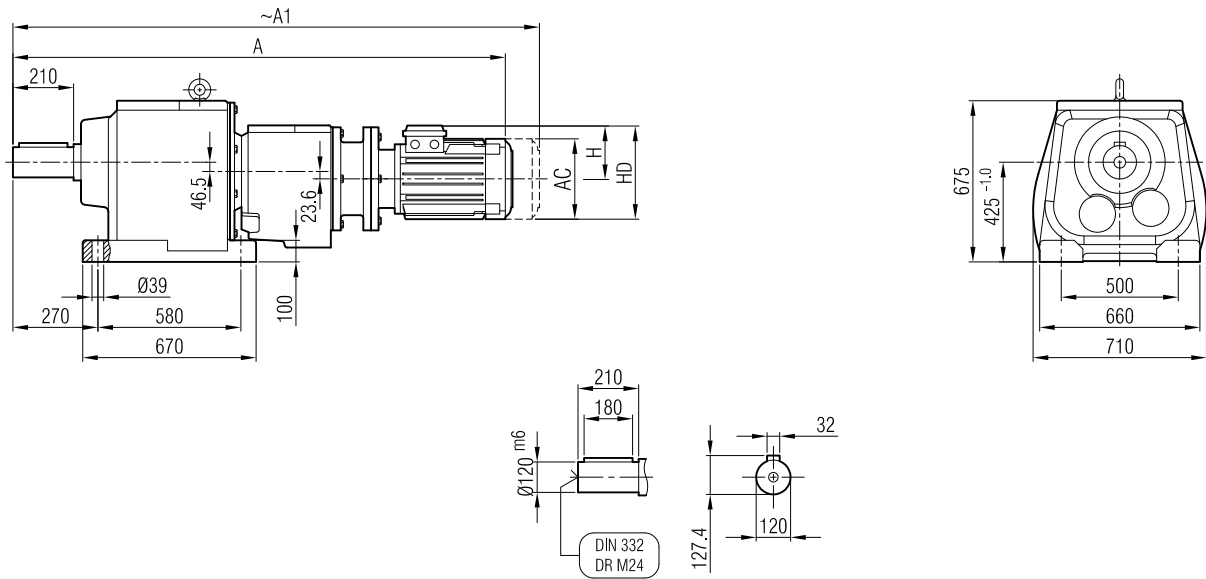
Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAF 153 İR 103

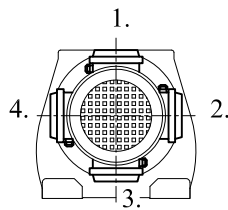




İRAPM 153 İR 92
İRAPM 153 İR 93



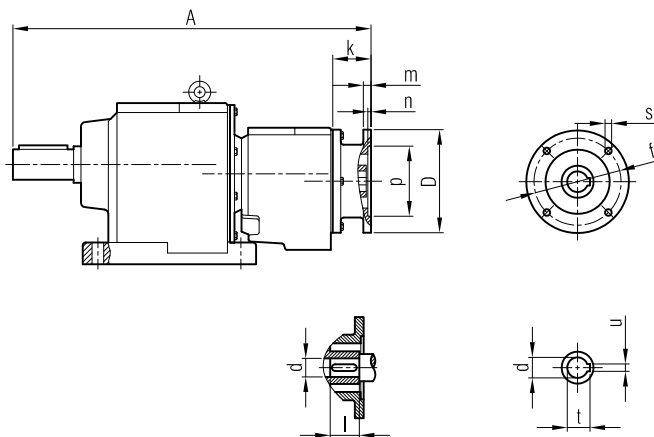
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 1411 | 1426 | 1451 | 1492 | 1512 | 1593 | 1631 | 1719 |
| A ₁ | 1480 | 1492 | 1517 | 1570 | 1595 | 1693 | 1731 | 1834 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

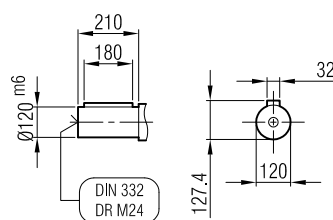
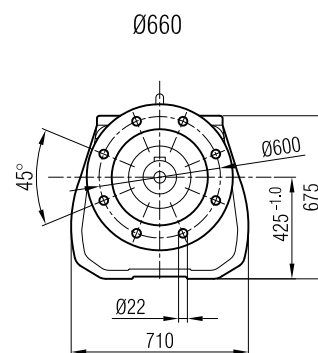
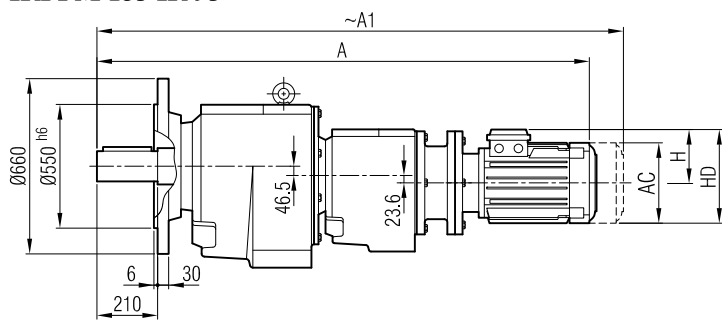
İRAP 152 İR 92 / İRAP 152 İR 93
İRAP 153 İR 92 / İRAP 153 İR 93



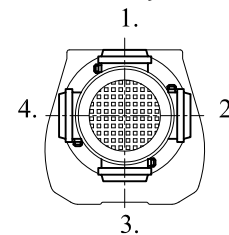
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 80/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1213 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1229 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRFPM 153 İR 92
İRFPM 153 İR 93



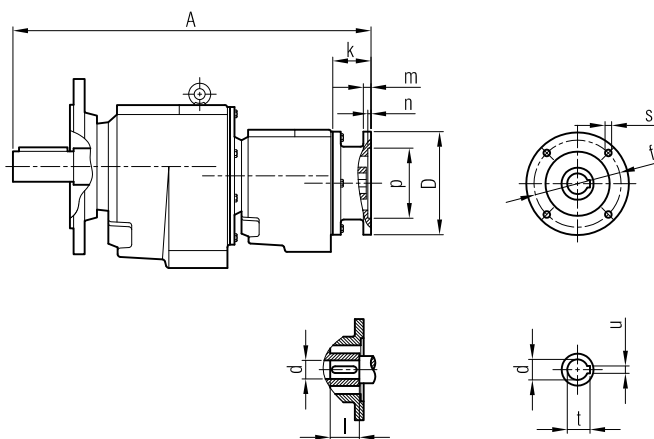
Terminal Box Positions
Posiciones de la caja de terminales



| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 1411 | 1426 | 1451 | 1492 | 1512 | 1593 | 1631 | 1719 |
| A ₁ | 1480 | 1492 | 1517 | 1570 | 1595 | 1693 | 1731 | 1834 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

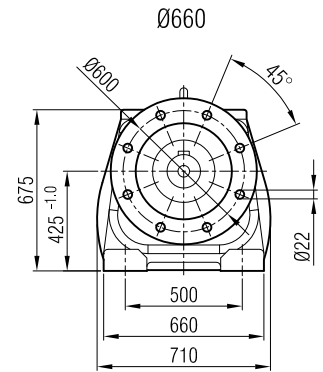
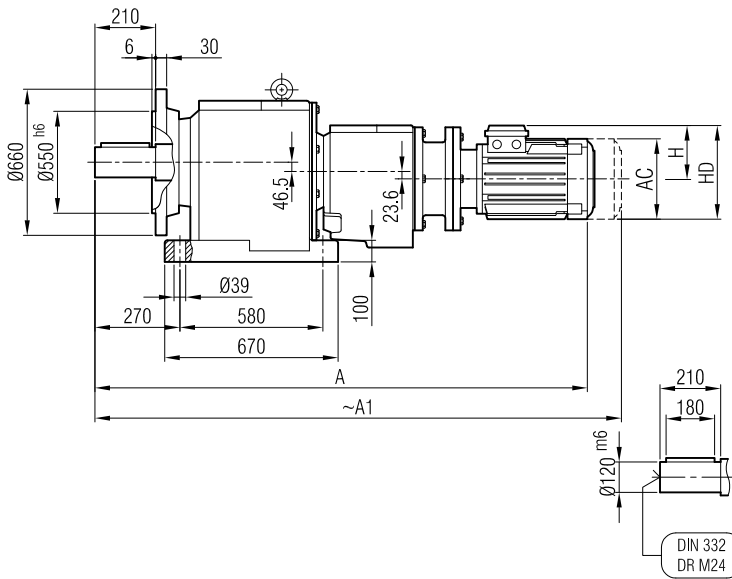
İRFP 152 İR 92 / İRFP 153 İR 93
İRFP 153 İR 92 / İRFP 153 İR 93



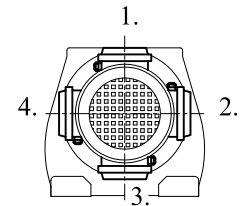
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 80/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1213 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1229 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAFPM 153 İR 92
İRAFPM 153 İR 93



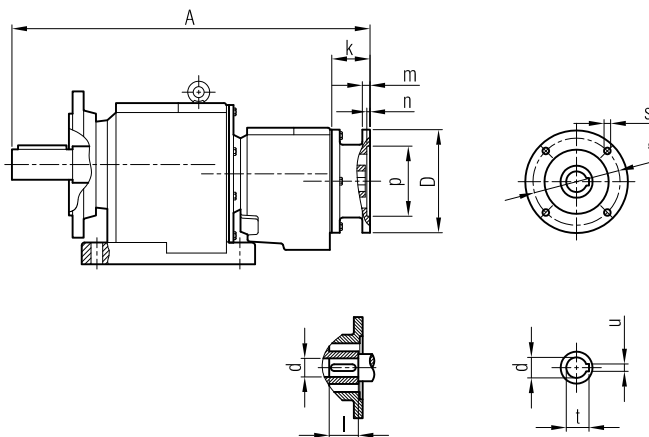
Terminal Box Positions
Posiciones de la caja de terminales



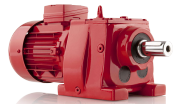
| | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 |
|----------------|-------|---------|---------|--------|--------|----------|----------|----------|
| A | 1411 | 1426 | 1451 | 1492 | 1512 | 1593 | 1631 | 1719 |
| A ₁ | 1480 | 1492 | 1517 | 1570 | 1595 | 1693 | 1731 | 1834 |
| H | 118 | 126 | 126 | 134 | 145 | 168 | 168 | 220 |
| HD | 198 | 216 | 216 | 234 | 257 | 300 | 300 | 380 |
| AC | 156 | 176 | 176 | 194 | 218 | 257 | 257 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

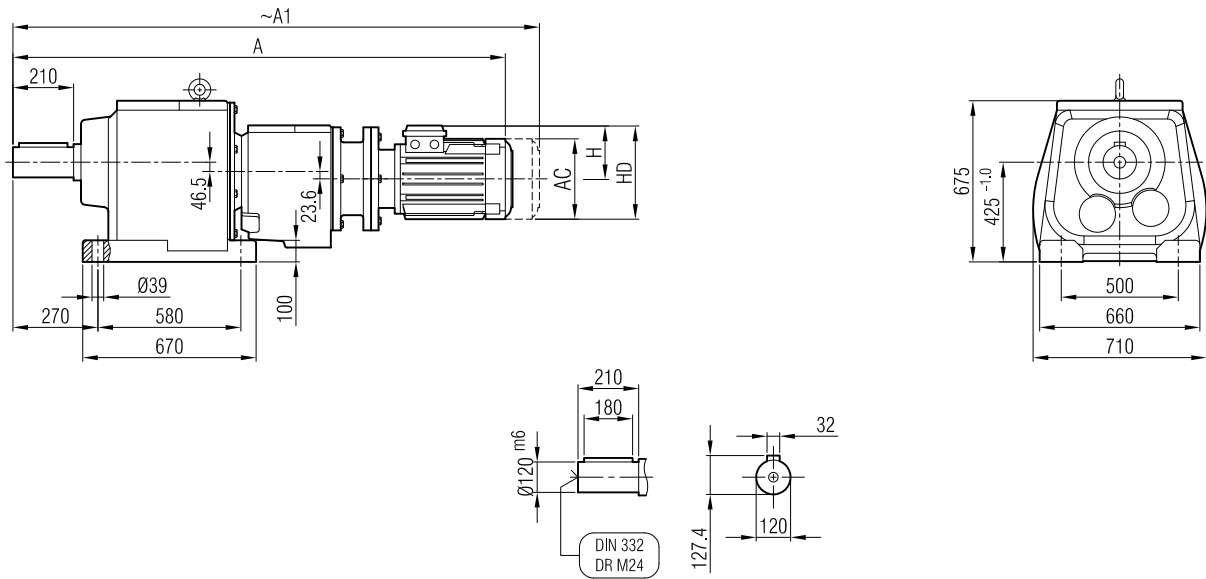
İRAFP 152 İR 92 / İRAFP 152 İR 93
İRAFP 153 İR 92 / İRAFP 153 İR 93



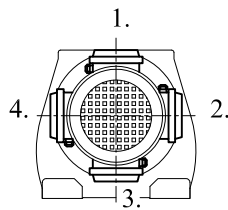
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|
| 80/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 19 | 40 | 21.8 | 6 |
| 90/B5 | 1167 | 130 | 165 | 200 | M10 | 49 | 12 | 5 | 24 | 50 | 27.3 | 8 |
| 100/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1176 | 180 | 215 | 250 | M12 | 58 | 14 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1213 | 230 | 265 | 300 | M12 | 95 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1229 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAPM 153 İR 103



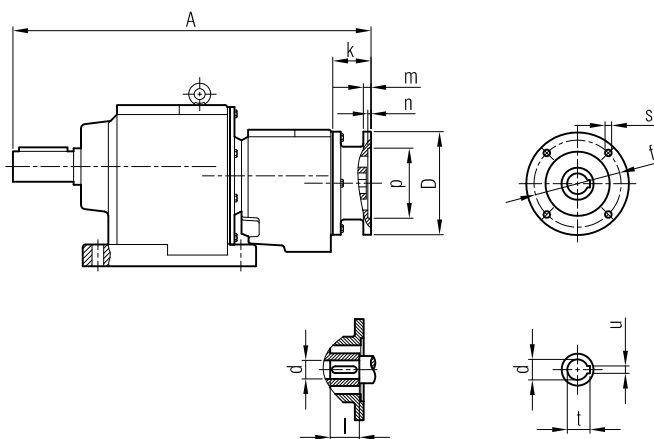
Terminal Box Positions
Posiciones de la caja de terminales



| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | |
|----------------|--------|--------|----------|----------|----------|----------|--|
| A | 1559 | 1579 | 1650 | 1688 | 1767 | 1811 | |
| A ₁ | 1637 | 1662 | 1750 | 1788 | 1882 | 1926 | |
| H | 134 | 145 | 168 | 168 | 220 | 220 | |
| HD | 234 | 257 | 300 | 300 | 380 | 380 | |
| AC | 194 | 218 | 257 | 257 | 310 | 310 | |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

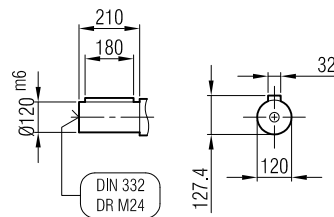
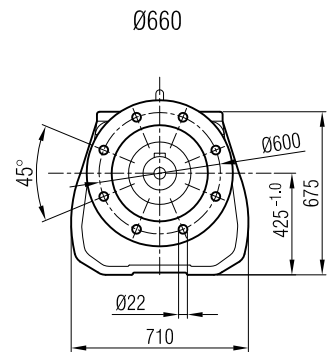
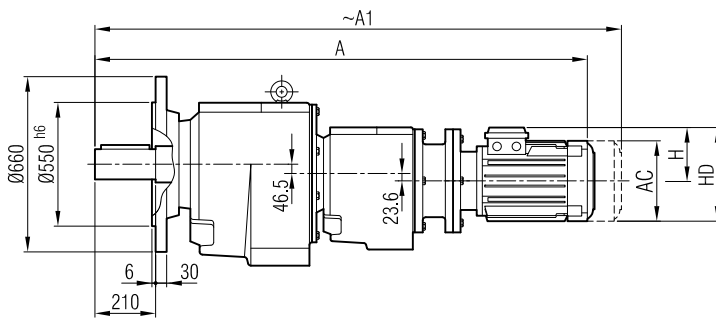
İRAP 153 İR 103



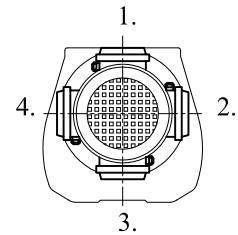
| | A | $\varnothing p$ | $\varnothing f$ | $\varnothing D$ | s | k | m | n | $\varnothing d$ | l | t | u |
|--------|------|-----------------|-----------------|-----------------|-----|----|----|-----|-----------------|-----|------|----|
| 100/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1270 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1277 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRFPM 153 İR 103



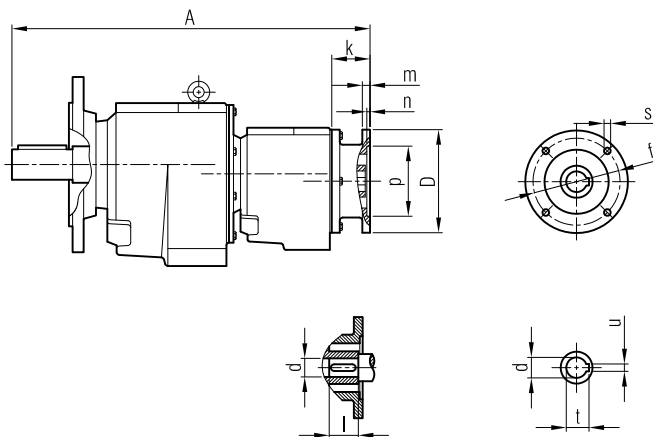
Terminal Box Positions
Posiciones de la caja de terminales



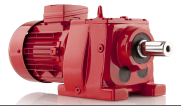
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 |
|----------------|--------|--------|----------|----------|----------|----------|
| A | 1559 | 1579 | 1650 | 1688 | 1767 | 1811 |
| A ₁ | 1637 | 1662 | 1750 | 1788 | 1882 | 1926 |
| H | 134 | 145 | 168 | 168 | 220 | 220 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

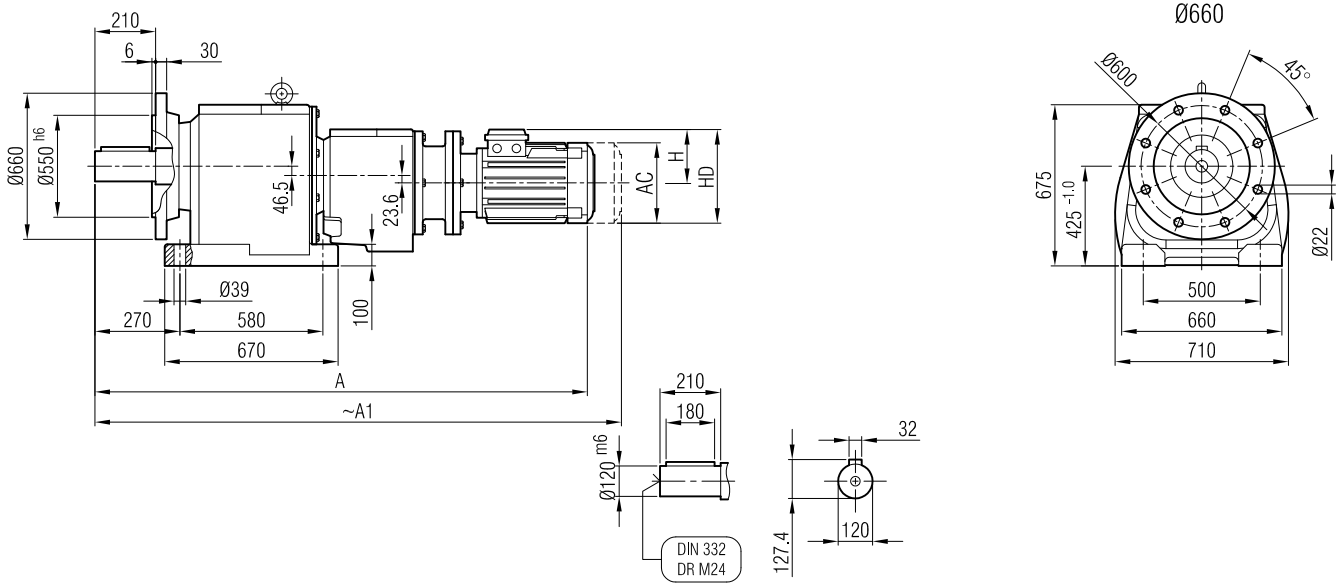
İRFP 153 İR 103



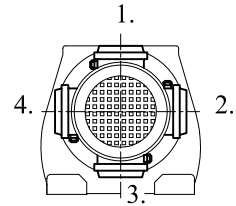
| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1270 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1277 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



İRAFPM 153 İR 103



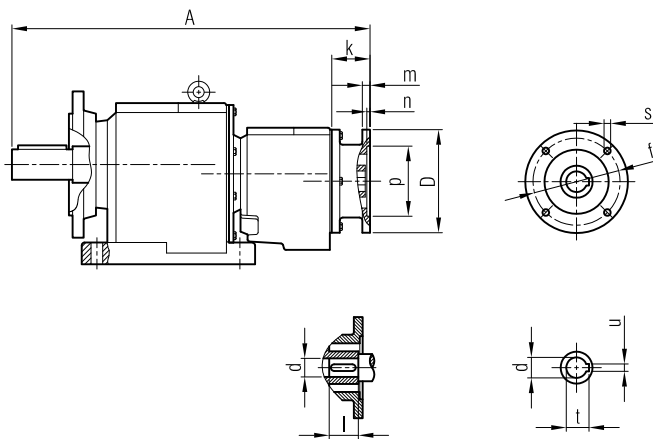
Terminal Box Positions
Posiciones de la caja de terminales



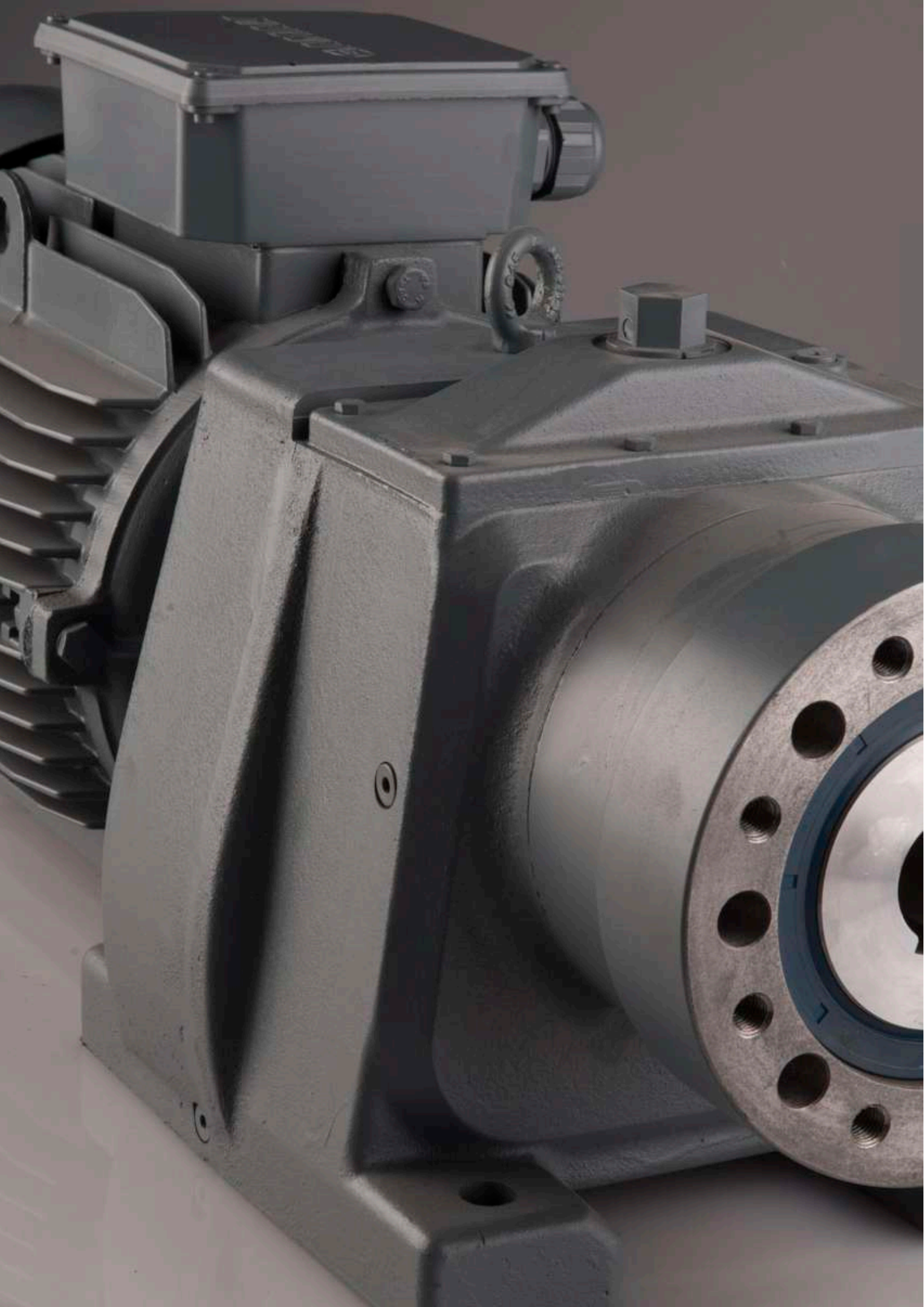
| | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 |
|----------------|--------|--------|----------|----------|----------|----------|
| A | 1559 | 1579 | 1650 | 1688 | 1767 | 1811 |
| A ₁ | 1637 | 1662 | 1750 | 1788 | 1882 | 1926 |
| H | 134 | 145 | 168 | 168 | 220 | 220 |
| HD | 234 | 257 | 300 | 300 | 380 | 380 |
| AC | 194 | 218 | 257 | 257 | 310 | 310 |

Dimension "A₁" is for motors with brake
La dimensión "A₁" es para motores con freno

İRAFP 153 İR 103

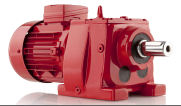
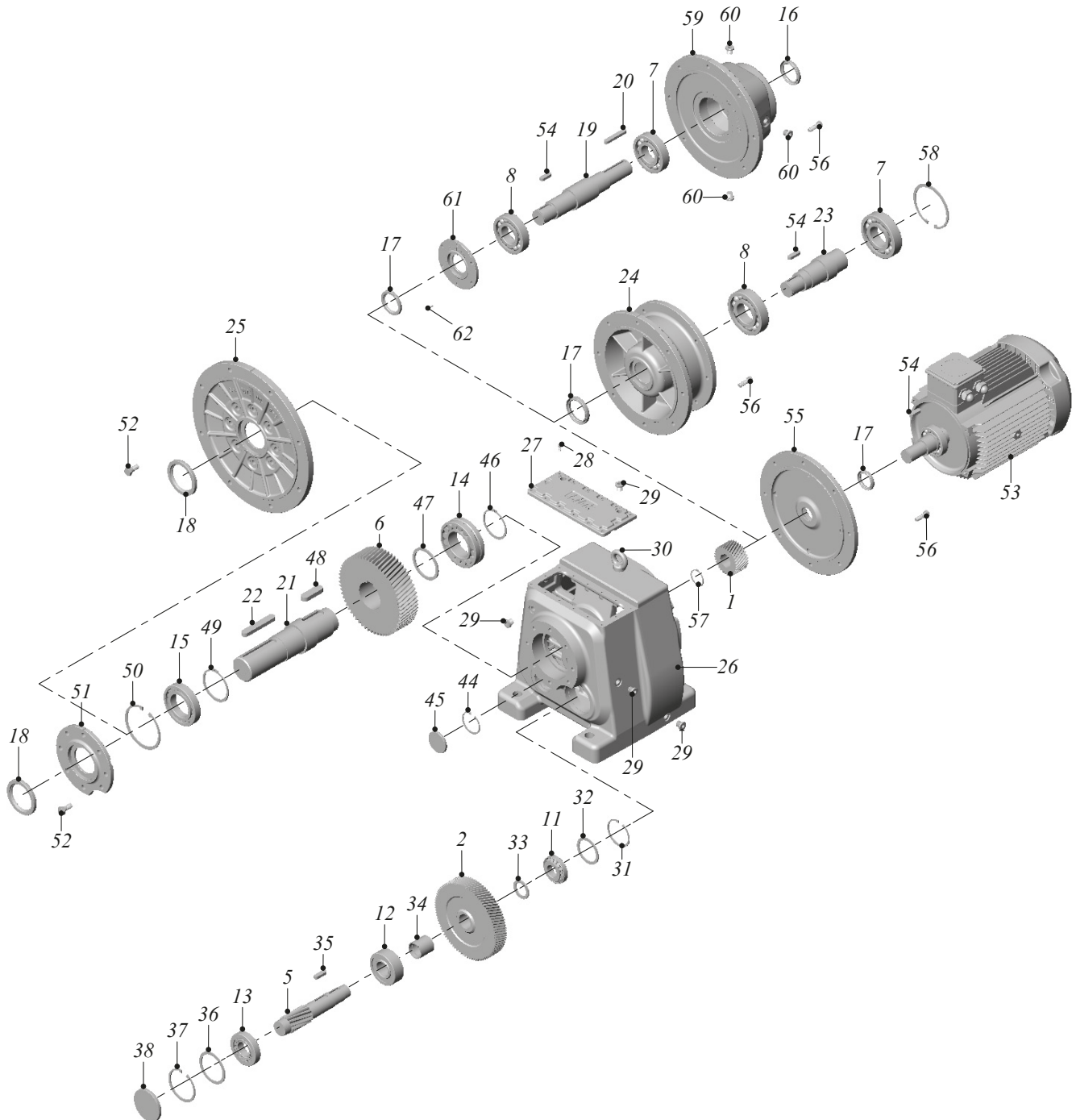


| | A | Øp | Øf | ØD | s | k | m | n | Ød | l | t | u |
|--------|------|-----|-----|-----|-----|----|----|-----|----|-----|------|----|
| 100/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 112/B5 | 1243 | 180 | 215 | 250 | M12 | 57 | 15 | 5 | 28 | 60 | 31.3 | 8 |
| 132/B5 | 1270 | 230 | 265 | 300 | M12 | 84 | 17 | 6 | 38 | 80 | 41.3 | 10 |
| 160/B5 | 1277 | 250 | 300 | 350 | M14 | 91 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |



General Pars List

Lista de piezas generales

**Type / Tipo****İRAM - İRAPM - İRA - İRAP****İRFM - İRFPM - İRF - İRFP****İRAFPM - İRAF - İRAFPM** 42-52-621-62-721-72-82-92-102-122-142-152

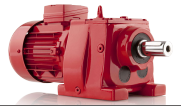


Type / Tipo

İRAM / İRFM / İRAFM / İRAPM / İRFPM / İRAFPM**İRA / İRF / İRAF / İRAP / İRFP / İRAFP**

42-52-621-62-721-72-82-92-102-122-142-152

| | |
|-----------------------------|--------------------------------------|
| 1 - Gear Z1 | 1 - Piñón Z1 |
| 2 - Gear Z2 | 2 - Piñón Z2 |
| 5 - Gear Z3 | 5 - Piñón Z3 |
| 6 - Gear Z4 | 6 - Piñón Z4 |
| 7 - Bearing | 7 - Rodamientos |
| 8 - Bearing | 8 - Rodamientos |
| 11 - Bearing | 11 - Rodamientos |
| 12 - Bearing | 12 - Rodamientos |
| 13 - Bearing | 13 - Rodamientos |
| 14 - Bearing | 14 - Rodamientos |
| 15 - Bearing | 15 - Rodamientos |
| 16 - Seal | 16 - Retenes |
| 17 - Seal | 17 - Retenes |
| 18 - Seal | 18 - Retenes |
| 19 - Input Shaft | 19 - Eje de entrada |
| 20 - Key | 20 - Llave |
| 21 - Output Shaft | 21 - Eje de salida |
| 22 - Key | 22 - Llave |
| 23 - Connection Shaft | 23 - Eje hueco |
| 24 - IEC Flange | 24 - Brida IEC |
| 25 - Flange | 25 - Brida |
| 26 - Gear Case | 26 - Caja |
| 27 - Cover | 27 - Cubierta |
| 28 - Bolt | 28 - Perno |
| 29 - Oil Plug | 29 - Tapón de aceite |
| 30 - Lifting Eye Bolt | 30 - Perno de ojo |
| 31 - Circlip | 31 - Circlip |
| 32 - Washer | 32 - Arandela |
| 33 - Washer | 33 - Arandela |
| 34 - Spacer | 34 - Espaciador |
| 35 - Key | 35 - Llave |
| 36 - Washer | 36 - Arandela |
| 37 - Circlip | 37 - Circlip |
| 38 - Locking Cover | 38 - Tapa de cierre |
| 44 - Circlip | 44 - Circlip |
| 45 - Locking Cover | 45 - Tapa de cierre |
| 46 - Circlip | 46 - Circlip |
| 47 - Spacer | 47 - Espaciador |
| 48 - Key | 48 - Llave |
| 49 - Washer | 49 - Arandela |
| 50 - Circlip | 50 - Circlip |
| 51 - Seal Cover | 51 - Cubierta de sello |
| 52 - Bolt | 52 - Perno |
| 53 - Electric Motor | 53 - Motor Eléctrico |
| 54 - Key | 54 - Llave |
| 55 - Motor Mounting Adapter | 55 - Adaptador del montaje del motor |
| 56 - Bolt | 56 - Perno |
| 57 - Circlip | 57 - Circlip |
| 58 - Circlip | 58 - Circlip |
| 59 - Gear Case Cover | 59 - Cubierta del reductor |
| 60 - Oil Plug | 60 - Tapón de aceite |
| 61 - Seal Cover | 61 - Cubierta de sello |
| 62 - Bolt | 62 - Perno |

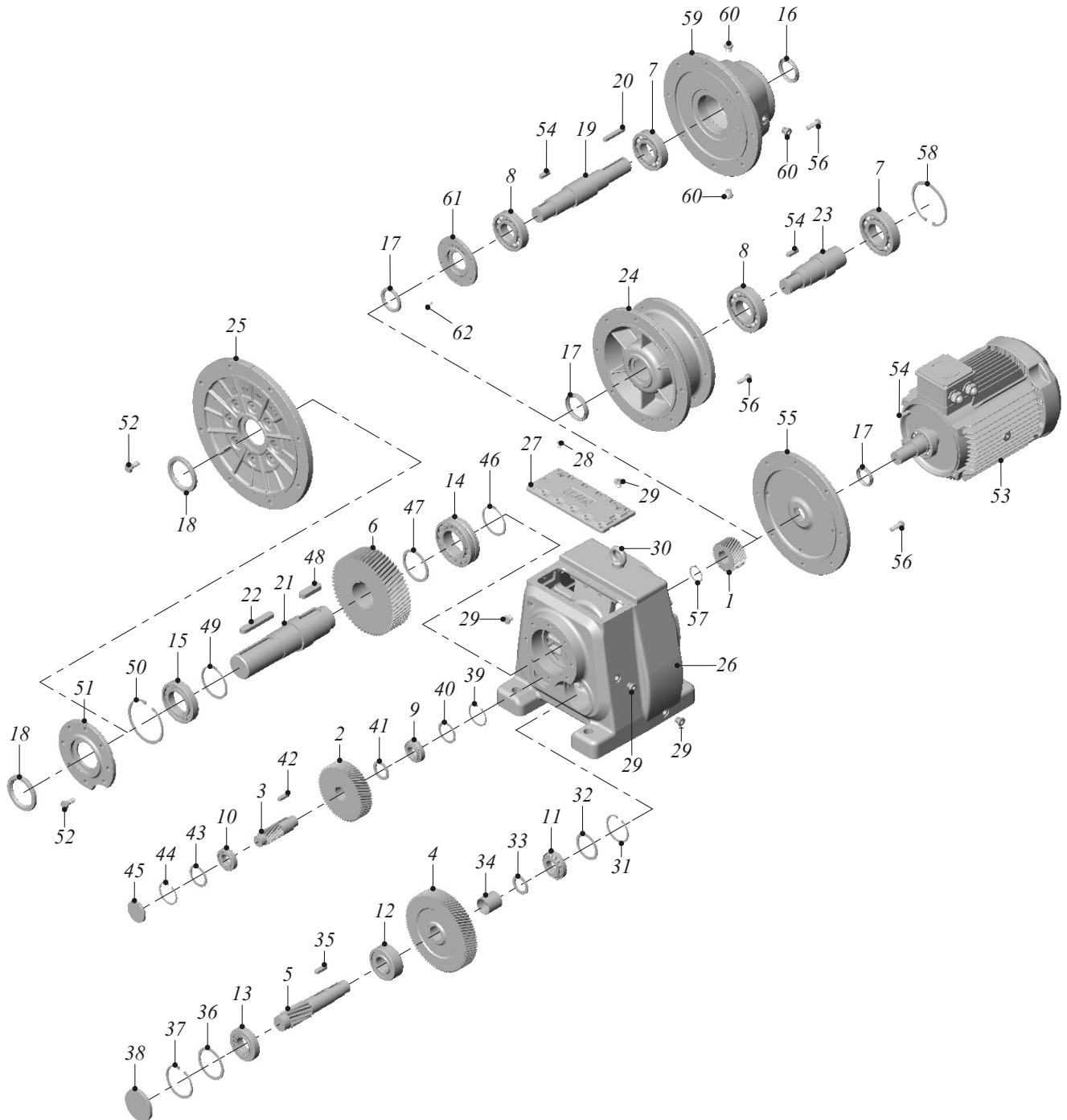


Type / Tipo

İRAM - İRAPM - İRA - İRAP

İRFM - İRFPM - İRF - İRFP

İRAFPM - İRAFP - İRAF - İRAFP 43-53-631-63-731-73-83-93-103-123-143-153



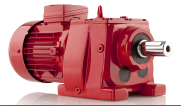


Type / Tipo

İRAM / İRFM / İRAFM / İRAPM / İRFPM / İRAFPM**İRA / İRF / İRAF / İRAP / İRFP / İRAFP**

43-53-631-63-731-73-83-93-103-123-143-153

| | |
|-----------------------------|--------------------------------------|
| 1 - Gear Z1 | 1 - Piñón Z1 |
| 2 - Gear Z2 | 2 - Piñón Z2 |
| 3 - Gear Z3 | 3 - Piñón Z3 |
| 4 - Gear Z4 | 4 - Piñón Z4 |
| 5 - Gear Z5 | 5 - Piñón Z5 |
| 6 - Gear Z6 | 6 - Piñón Z6 |
| 7 - Bearing | 7 - Rodamientos |
| 8 - Bearing | 8 - Rodamientos |
| 9 - Bearing | 9 - Rodamientos |
| 10 - Bearing | 10 - Rodamientos |
| 11 - Bearing | 11 - Rodamientos |
| 12 - Bearing | 12 - Rodamientos |
| 13 - Bearing | 13 - Rodamientos |
| 14 - Bearing | 14 - Rodamientos |
| 15 - Bearing | 15 - Rodamientos |
| 16 - Seal | 16 - Retenes |
| 17 - Seal | 17 - Retenes |
| 18 - Seal | 18 - Retenes |
| 19 - Input Shaft | 19 - Eje de entrada |
| 20 - Key | 20 - Llave |
| 21 - Output Shaft | 21 - Eje de salida |
| 22 - Key | 22 - Llave |
| 23 - Connection Shaft | 23 - Eje hueco |
| 24 - IEC Flange | 24 - Brida IEC |
| 25 - Flange | 25 - Brida |
| 26 - Gear Case | 26 - Caja |
| 27 - Cover | 27 - Cubierta |
| 28 - Bolt | 28 - Perno |
| 29 - Oil Plug | 29 - Tapón de aceite |
| 30 - Lifting Eye Bolt | 30 - Perno de ojo |
| 31 - Circlip | 31 - Circlip |
| 32 - Washer | 32 - Arandela |
| 33 - Washer | 33 - Arandela |
| 34 - Spacer | 34 - Espaciador |
| 35 - Key | 35 - Llave |
| 36 - Washer | 36 - Arandela |
| 37 - Circlip | 37 - Circlip |
| 38 - Locking Cover | 38 - Tapa de cierre |
| 39 - Circlip | 39 - Circlip |
| 40 - Washer | 40 - Arandela |
| 41 - Spacer | 41 - Espaciador |
| 42 - Key | 42 - Llave |
| 43 - Washer | 43 - Arandela |
| 44 - Circlip | 44 - Circlip |
| 45 - Locking Cover | 45 - Tapa de cierre |
| 46 - Circlip | 46 - Circlip |
| 47 - Spacer | 47 - Espaciador |
| 48 - Key | 48 - Llave |
| 49 - Circlip | 49 - Circlip |
| 50 - Circlip | 50 - Circlip |
| 51 - Seal Cover | 51 - Cubierta de sello |
| 52 - Bolt | 52 - Perno |
| 53 - Electric Motor | 53 - Motor Eléctrico |
| 54 - Key | 54 - Llave |
| 55 - Motor Mounting Adapter | 55 - Adaptador del montaje del motor |
| 56 - Bolt | 56 - Perno |
| 57 - Circlip | 57 - Circlip |
| 58 - Circlip | 58 - Circlip |
| 59 - Gear Case Cover | 59 - Cubierta del reductor |
| 60 - Oil Plug | 60 - Tapón de aceite |
| 61 - Seal Cover | 61 - Cubierta de sello |
| 62 - Bolt | 62 - Perno |

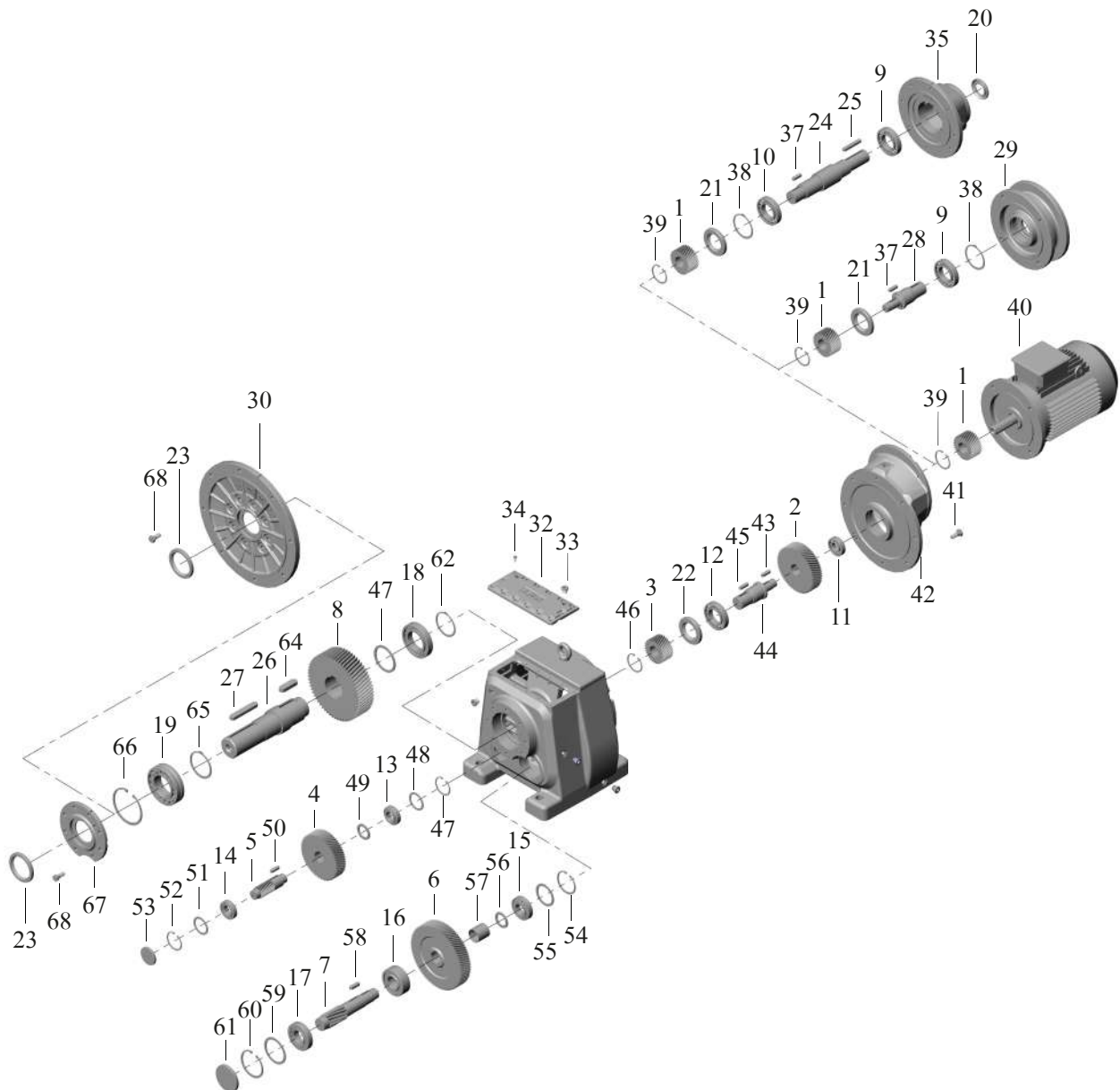


Type / Tipo

İRAM - İRAPM - İRA - İRAP

İRFM - İRFPM - İRF - İRFP

İRAFPM - İRAF - İRAFP 64-741-74-84-94-104-124-144-154





Type / Tipo

İRAM / İRFM / İRAFM / İRAPM / İRFPM / İRAFPM**İRA / İRF / İRAF / İRAP / İRFP / İRAFP**

64-741-74-84-94-104-124-144-154

| | |
|-----------------------|----------------------------|
| 1 - Gear Z1 | 1 - Piñón Z1 |
| 2 - Gear Z2 | 2 - Piñón Z2 |
| 3 - Gear Z3 | 3 - Piñón Z3 |
| 4 - Gear Z4 | 4 - Piñón Z4 |
| 5 - Gear Z5 | 5 - Piñón Z5 |
| 6 - Gear Z6 | 6 - Piñón Z6 |
| 7 - Gear Z7 | 7 - Piñón Z7 |
| 8 - Gear Z8 | 8 - Piñón Z8 |
| 9 - Bearing | 9 - Rodamientos |
| 10 - Bearing | 10 - Rodamientos |
| 11 - Bearing | 11 - Rodamientos |
| 12 - Bearing | 12 - Rodamientos |
| 13 - Bearing | 13 - Rodamientos |
| 14 - Bearing | 14 - Rodamientos |
| 15 - Bearing | 15 - Rodamientos |
| 16 - Bearing | 16 - Rodamientos |
| 17 - Bearing | 17 - Rodamientos |
| 18 - Bearing | 18 - Rodamientos |
| 19 - Bearing | 19 - Rodamientos |
| 20 - Seal | 20 - Retenes |
| 21 - Seal | 21 - Retenes |
| 22 - Seal | 22 - Retenes |
| 23 - Seal | 23 - Retenes |
| 24 - Input Shaft | 24 - Eje de entrada |
| 25 - Key | 25 - Llave |
| 26 - Output Shaft | 26 - Eje de salida |
| 27 - Key | 27 - Llave |
| 28 - Connection Shaft | 28 - Eje hueco |
| 29 - IEC Flange | 29 - Brida IEC |
| 30 - Flange | 30 - Brida |
| 31 - Gear Case | 31 - Caja |
| 32 - Cover | 32 - Cubierta |
| 33 - Oil Plug | 33 - Tapón de aceite |
| 34 - Bolt | 34 - Perno |
| 35 - Gear Case Cover | 35 - Cubierta del reductor |
| 36 - Lifting Eye Bolt | 36 - Perno de ojo |
| 37 - Key | 37 - Llave |
| 38 - Circlip | 38 - Circlip |
| 39 - Circlip | 39 - Circlip |
| 40 - Electric Motor | 40 - Motor Eléctrico |
| 41 - Bolt | 41 - Perno |
| 42 - Gear Case V | 42 - Caja de engranaje V |
| 43 - Key | 43 - Llave |
| 44 - Connection Shaft | 44 - Eje de conexión |
| 45 - Key | 45 - Llave |
| 46 - Circlip | 46 - Circlip |
| 47 - Circlip | 47 - Circlip |
| 48 - Washer | 48 - Arandela |
| 49 - Washer | 49 - Arandela |
| 50 - Key | 50 - Llave |
| 51 - Washer | 51 - Arandela |
| 52 - Circlip | 52 - Circlip |
| 53 - Locking Cover | 53 - Tapa de cierre |
| 54 - Circlip | 54 - Circlip |
| 55 - Washer | 55 - Arandela |
| 56 - Washer | 56 - Arandela |
| 57 - Spacer | 57 - Espaciador |
| 58 - Key | 58 - Llave |
| 59 - Washer | 59 - Arandela |
| 60 - Circlip | 60 - Circlip |
| 61 - Locking Cover | 61 - Tapa de cierre |
| 62 - Circlip | 62 - Circlip |
| 63 - Washer | 63 - Arandela |
| 64 - Key | 64 - Llave |
| 65 - Circlip | 65 - Circlip |
| 66 - Circlip | 66 - Circlip |
| 67 - Seal Cover | 67 - Cubierta de sello |
| 68 - Bolt | 68 - Perno |

Notlar
Notes

SIPCO i.Mak[®]
Gearboxes and Drives

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Tel: 281 480 8711 / Fax: 281 480 8656
E-mail: sales@sipco-imak.com

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