

Data sheet

Item no. / Configuration 01 / 2104180-22.0-040202-S-A01611
Description HMC2-180L-4 400/690 V 50 Hz 22 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMC2 180L-4 |
| Design | 400 VD / 690 VY 50 Hz + 480 VD / 830 VY 60 Hz |
| Direction of rotation | CW |
| Installation max. altitude (m) | 1.000 |
| Poles | 4 |

| Motor protection | |
|------------------------|----------------------------|
| Winding temp. detector | No |
| Temp. detector type | None |
| Bearing detector | No |
| Winding PTC main | PTC 3 x 155°C |
| Winding PTC spare | None |
| Space heater | 230 V 60 W |
| Terminal board thread | M6 |
| Electrical insulation | Standard (1350 V @ 0.8 µs) |
| Tropical insulation | Yes |
| SPM | N/A |
| External grounding | Yes |
| Drain hole | Yes |
| Rain cap | No |

| Classification | |
|---------------------------|------|
| Class society | |
| Shaft requirement acc. to | None |
| Ex. code | No |

| Mechanical data | |
|--|---------------------------------|
| Frame / Shaft height | IEC 180 |
| Type of construction | B35 |
| Cooling method | IC411 |
| Protection class | IP55 |
| Temp. insulation class | F |
| Frame material | Cast iron |
| Keyway | Closed |
| Balancing | Half key |
| IEC vibration class | A |
| Weight (kg) | 195 |
| Bearing (DE) | 6311 2Z / C3 / DGBB |
| Bearing (NDE) | 6311 2Z / C3 / DGBB |
| Fixed bearing | DE |
| Moment of inertia (kg×m ²) | 0 |
| Painting (color) | RAL 9005 |
| Corrosion protection | C3L |
| Main terminal box pos. | DE top |
| Main cable entries | Cable gland 2xM40x1.5 Ø22-30 mm |
| Main cable direction | Right from DE |
| Main cable material | Nickel plated brass |
| Aux. cable entries | Blind cap 2xM20x1.5 |
| Aux. cable direction | NDE |
| Aux. cable material | Nickel plated brass |

| Winding operation variants | | | | |
|----------------------------|-------------------|--------------------|-------------------|--|
| Rated power (kW) | 22 | 21.3 | 25.6 | |
| Frequency (Hz) | 50 | 50 | 60 | |
| Connection | D/Y | D/Y | D/Y | |
| Voltage (V) | 400 / 690 | 380 / 660 | 440 / 762 | |
| Full load current (A) | 40.3 / 23.4 | 44 / 25.5 | 42.7 / 24.8 | |
| No load current (A) | 12.5 | 14.6 | 16.2 | |
| Speed (rpm) | 1470 | 1470 | 1764 | |
| Power factor 100/75/50 (%) | 0.86 / 0.87 / 0.8 | 0.87 / 0.88 / 0.81 | 0.86 / 0.87 / 0.8 | |
| Efficiency 100/75/50 (%) | 90.5 / 91 / 90.4 | 90.5 / 91 / 90.4 | 90.5 / 91 / 90.4 | |
| Efficiency class | IE2 | IE2 | IE1 | |
| Full load torque (Nm) | 143 | 139 | 139 | |
| Tst/Tn | 2.74 | 2.51 | 2.74 | |
| Tmax/Tn | 3.37 | 3.09 | 3.37 | |
| Ist/In | 7.9 | 6.99 | 8.14 | |
| Temp. rise class | F | F | F | |
| Duty | S1 | S1 | S1 | |
| Sound pressure level (dBA) | 68.2 | 68.2 | 73.2 | |
| Min. ambient temp. (°C) | -20°C | -20°C | -20°C | |
| Max. ambient temp. (°C) | 40°C | 45°C | 45°C | |

Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.