

Data sheet

Item no. / Configuration 01 / 2102225-45.0-020202-S-A01504
Description HMC2-225M-2 400/690 V 50 Hz 45 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMC2 225M-2 |
| Design | 400 VD / 690 VY 50 Hz + 480 VD / 830 VY 60 Hz |
| Direction of rotation | CW |
| Installation max. altitude (m) | 1.000 |
| Poles | 2 |

| 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 80 W |
| Terminal board thread | M8 |
| 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 225 |
| Type of construction | B5 |
| 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) | 305 |
| Bearing (DE) | 6312 2Z / C3 / DGBB |
| Bearing (NDE) | 6312 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 2xM50x1.5 Ø32-38 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) | 45 | 43.7 | 52.4 |
| Frequency (Hz) | 50 | 50 | 60 |
| Connection | D/Y | D/Y | D/Y |
| Voltage (V) | 400 / 690 | 380 / 660 | 440 / 762 |
| Full load current (A) | 78.5 / 45.3 | 85.7 / 49.4 | 83.3 / 48.1 |
| No load current (A) | 20.1 | 23.5 | 26.1 |
| Speed (rpm) | 2966 | 2966 | 3559 |
| Power factor 100/75/50 (%) | 0.91 / 0 / 0 | 0.91 / 0 / 0 | 0.91 / 0 / 0 |
| Efficiency 100/75/50 (%) | 93.5 / 93.6 / 93.8 | 93.5 / 93.6 / 93.8 | 93.5 / 93.6 / 93.8 |
| Efficiency class | IE2 | IE2 | IE1 |
| Full load torque (Nm) | 145 | 141 | 141 |
| Tst/Tn | 2.78 | 2.54 | 2.78 |
| Tmax/Tn | 3.61 | 3.31 | 3.61 |
| Ist/In | 8.3 | 7.35 | 8.55 |
| Temp. rise class | B | F | F |
| Duty | S1 | S1 | S1 |
| Sound pressure level (dBA) | 77.7 | 77.7 | 82.7 |
| 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.