

Data sheet

Item no. / Configuration 01 / 3102225-45.0-020201-S-A00703
Description HMC3 225M-2 400/690 V 50 Hz 45 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMC3 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 | None |
| Terminal board thread | M8 |
| Electrical insulation | Standard (1350 V @ 0.8 µs) |
| Tropical insulation | No |
| 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) | 324 |
| Bearing (DE) | 6312 / C3 / DGBB |
| Bearing (NDE) | 6312 / C3 / DGBB |
| Fixed bearing | DE |
| Moment of inertia (kg×m ²) | 0.335 |
| Painting (color) | RAL 9005 |
| Corrosion protection | C3L |
| Main terminal box pos. | DE top |
| Main cable entries | Blind cap 2xM50x1.5 |
| Main cable direction | Right from DE |
| Main cable material | Plastic |
| Aux. cable entries | Blind cap 2xM20x1.5 |
| Aux. cable direction | NDE |
| Aux. cable material | Plastic |

| Winding operation variants | | | |
|----------------------------|-------------------|--------------------|--|
| Rated power (kW) | 45 | 45 | |
| Frequency (Hz) | 50 | 60 | |
| Connection | D/Y | D/Y | |
| Voltage (V) | 400 / 690 | 480 / 830 | |
| Full load current (A) | 75.8 / 43.8 | 64.2 / 37.1 | |
| No load current (A) | 19.2 | 19.2 | |
| Speed (rpm) | 2971 | 3565 | |
| Power factor 100/75/50 (%) | 0.91 / 0.9 / 0.84 | 0.91 / 0.9 / 0.84 | |
| Efficiency 100/75/50 (%) | 94 / 93.9 / 92.9 | 93.6 / 92.6 / 91.6 | |
| Efficiency class | IE3 | IE3 | |
| Full load torque (Nm) | 145 | 121 | |
| Tst/Tn | 3.25 | 3.91 | |
| Tmax/Tn | 3.43 | 4.13 | |
| Ist/In | 8.7 | 10.3 | |
| Temp. rise class | B | B | |
| Duty | S1 | S1 | |
| Sound pressure level (dBA) | 76.4 | 81 | |
| Min. ambient temp. (°C) | -20°C | -20°C | |
| Max. ambient temp. (°C) | 40°C | 40°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.