

HOYER

MOTORS

Data sheet

Item no. / Configuration 01 / 3108315-90.0-010201-S-A00928
Description HMC3 315L1-8 400/690 V 50 Hz 90 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMC3 315L1-8 |
| Design | 400 VD / 690 VY 50 Hz + 480 VD / 830 VY 60 Hz |
| Direction of rotation | CW |
| Installation max. altitude (m) | 1.000 |
| Poles | 8 |

| 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 | M16 |
| 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 315 |
| Type of construction | B3 |
| 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) | 1060 |
| Bearing (DE) | NU 319 ECP / C3 / CRB |
| Bearing (NDE) | 6319 / C3 / DGBB |
| Fixed bearing | NDE |
| Moment of inertia (kg×m ²) | 4.586 |
| Painting (color) | RAL 9005 |
| Corrosion protection | C3L |
| Main terminal box pos. | DE top |
| Main cable entries | Blind cap 2xM63x1.5 |
| 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) | 90 | 90 | |
| Frequency (Hz) | 50 | 60 | |
| Connection | D/Y | D/Y | |
| Voltage (V) | 400 / 690 | 480 / 830 | |
| Full load current (A) | 170 / 97.9 | 142 / 81.9 | |
| No load current (A) | 64.5 | 64.5 | |
| Speed (rpm) | 740 | 888 | |
| Power factor 100/75/50 (%) | 0.82 / 0.79 / 0.7 | 0.82 / 0 / 0 | |
| Efficiency 100/75/50 (%) | 94.1 / 93.6 / 92.8 | 94.1 / 93.5 / 92.7 | |
| Efficiency class | IE3 | IE3 | |
| Full load torque (Nm) | 1161.5 | 968 | |
| Tst/Tn | 1.8 | 2.16 | |
| Tmax/Tn | 2 | 2.4 | |
| Ist/In | 6.4 | 7.68 | |
| Temp. rise class | B | B | |
| Duty | S1 | S1 | |
| Sound pressure level (dBA) | 72 | 71 | |
| 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.