

Data sheet

Item no. / Configuration 01 / 2104090-1.10-040101-S-A00490

Description HMA2 90S-4 230/400 V 50 Hz 1,1 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMA2 90S-4 |
| Design | 230 VD / 400 VY 50 Hz + 280 VD / 480 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 | None |
| Terminal board thread | M4 |
| 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 90 |
| Type of construction | B35 |
| Cooling method | IC411 |
| Protection class | IP55 |
| Temp. insulation class | F |
| Frame material | Aluminum |
| Keyway | Closed |
| Balancing | Half key |
| IEC vibration class | A |
| Weight (kg) | 17 |
| Bearing (DE) | 6205 2Z / C3 / DGGB |
| Bearing (NDE) | 6205 2Z / C3 / DGGB |
| Fixed bearing | DE |
| Moment of inertia (kg×m ²) | 0.0032 |
| Painting (color) | RAL 9005 |
| Corrosion protection | C3L |
| Main terminal box pos. | DE top |
| Main cable entries | Cable gland 1xM20x1.5 Ø6-12 mm |
| Main cable direction | Right from DE |
| Main cable material | Nickel plated brass |
| Aux. cable entries | Blind cap 1xM20x1.5 |
| Aux. cable direction | Right from DE |
| Aux. cable material | Nickel plated brass |

| Winding operation variants | | | |
|----------------------------|--------------------|--------------------|--------------------|
| Rated power (kW) | 1.1 | 1.07 | 1.28 |
| Frequency (Hz) | 50 | 50 | 60 |
| Connection | D/Y | D/Y | D/Y |
| Voltage (V) | 230 / 400 | 220 / 380 | / 440 |
| Full load current (A) | 4.23 / 2.44 | 4.61 / 2.67 | / 2.6 |
| No load current (A) | 1.31 | 1.53 | 1.70 |
| Speed (rpm) | 1439 | 1439 | 1727 |
| Power factor 100/75/50 (%) | 0.8 / 0.73 / 0.59 | 0.81 / 0.74 / 0.61 | 0.8 / 0.73 / 0.59 |
| Efficiency 100/75/50 (%) | 81.4 / 82.2 / 80.8 | 81.4 / 82.2 / 80.8 | 81.4 / 82.2 / 80.8 |
| Efficiency class | IE2 | IE2 | IE1 |
| Full load torque (Nm) | 7.3 | 7.08 | 7.08 |
| Tst/Tn | 2.43 | 2.22 | 2.43 |
| Tmax/Tn | 2.9 | 2.66 | 2.89 |
| Ist/In | 7.35 | 6.51 | 7.57 |
| Temp. rise class | B | B | B |
| Duty | S1 | S1 | S1 |
| Sound pressure level (dBA) | 58 | 58 | 63 |
| 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.