

Data sheet

Item no. / Configuration 01 / 4104090-1.10-030101-S-026798

Description HMA4 90S-4 230/400 V 50 Hz 1,1 kW

| General data | |
|--------------------------------|---|
| Standard series | IEC 60034 |
| Type | HMA4 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 | No |
| SPM | N/A |
| External grounding | No |
| 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 | B14 |
| Cooling method | IC411 |
| Protection class | IP55 |
| Temp. insulation class | F |
| Frame material | Aluminum |
| Keyway | Closed |
| Balancing | Half key |
| IEC vibration class | A |
| Weight (kg) | 19 |
| Bearing (DE) | 6205 2Z / C3 / DGBB |
| Bearing (NDE) | 6205 2Z / C3 / DGBB |
| Fixed bearing | DE |
| Moment of inertia (kg×m ²) | 0.0045 |
| Painting (color) | RAL 9005 |
| Corrosion protection | C3L |
| Main terminal box pos. | DE top |
| Main cable entries | Blind cap 2xM20x1.5 |
| Main cable direction | Right from DE |
| Main cable material | Plastic |
| Aux. cable entries | N/A 0xN/A |
| Aux. cable direction | N/A |
| Aux. cable material | N/A |

| Winding operation variants | | | |
|----------------------------|----------------------|----------------------|--|
| Rated power (kW) | 1.1 | 1.1 | |
| Frequency (Hz) | 50 | 60 | |
| Connection | D/Y | D/Y | |
| Voltage (V) | 230 / 400 | 280 / 480 | |
| Full load current (A) | 4.22 / 2.43 | 3.46 / 2.02 | |
| No load current (A) | 1.46 | 1.5 | |
| Speed (rpm) | 1445 | 1745 | |
| Power factor 100/75/50 (%) | 0.75 / 0.65 / 0.52 | 0.75 / 0.59 / 0.47 | |
| Efficiency 100/75/50 (%) | 87.2 / 87.77 / 86.34 | 87.5 / 88.55 / 86.86 | |
| Efficiency class | IE4 | IE4 | |
| Full load torque (Nm) | 7.25 | 5.98 | |
| Tst/Tn | 3.76 | 4.93 | |
| Tmax/Tn | 3.95 | 4.9 | |
| Ist/In | 7.57 | 10.9 | |
| Temp. rise class | B | B | |
| Duty | S1 | S1 | |
| Sound pressure level (dBA) | 59 | 64 | |
| 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.