

## Data sheet

**Item no. / Configuration** 01 / 3104100-2.20-010101-S-A00742  
**Description** HMA3 100L1-4 B3 2.2kW IE3@50 230/400@50 RAL9005

| General data                   |                                               |
|--------------------------------|-----------------------------------------------|
| Standard series                | IEC 60034                                     |
| Type                           | HMA3 100L1-4                                  |
| 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 100             |
| Type of construction                   | B3                  |
| Cooling method                         | IC411               |
| Protection class                       | IP55                |
| Temp. insulation class                 | F                   |
| Frame material                         | Aluminum            |
| Keyway                                 | Closed              |
| Balancing                              | Half key            |
| IEC vibration class                    | A                   |
| Weight (kg)                            | 33                  |
| Bearing (DE)                           | 6206 2Z / C3 / DGBB |
| Bearing (NDE)                          | 6206 2Z / C3 / DGBB |
| Fixed bearing                          | DE                  |
| Moment of inertia (kg×m <sup>2</sup> ) | 0                   |
| 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                     | Blind cap 1xM20x1.5 |
| Aux. cable direction                   | NDE                 |
| Aux. cable material                    | Plastic             |

| Winding operation variants |                  |  |  |  |  |  |
|----------------------------|------------------|--|--|--|--|--|
| Rated power (kW)           | 2.2              |  |  |  |  |  |
| Frequency (Hz)             | 50               |  |  |  |  |  |
| Connection                 | D/Y              |  |  |  |  |  |
| Voltage (V)                | 230 / 400        |  |  |  |  |  |
| Full load current (A)      | 7.88 / 4.55      |  |  |  |  |  |
| No load current (A)        | 2.44             |  |  |  |  |  |
| Speed (rpm)                | 1455             |  |  |  |  |  |
| Power factor 100/75/50 (%) | 0.8 / 0.73 / 0.6 |  |  |  |  |  |
| Efficiency 100/75/50 (%)   | 86.8 / 87 / 85.4 |  |  |  |  |  |
| Efficiency class           | IE3              |  |  |  |  |  |
| Full load torque (Nm)      | 14.4             |  |  |  |  |  |
| Tst/Tn                     | 3.01             |  |  |  |  |  |
| Tmax/Tn                    | 3.3              |  |  |  |  |  |
| Ist/In                     | 8.13             |  |  |  |  |  |
| Temp. rise class           | B                |  |  |  |  |  |
| Duty                       | S1               |  |  |  |  |  |
| Sound pressure level (dBA) | 56               |  |  |  |  |  |
| Min. ambient temp. (°C)    | -20°C            |  |  |  |  |  |
| Max. ambient temp. (°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.