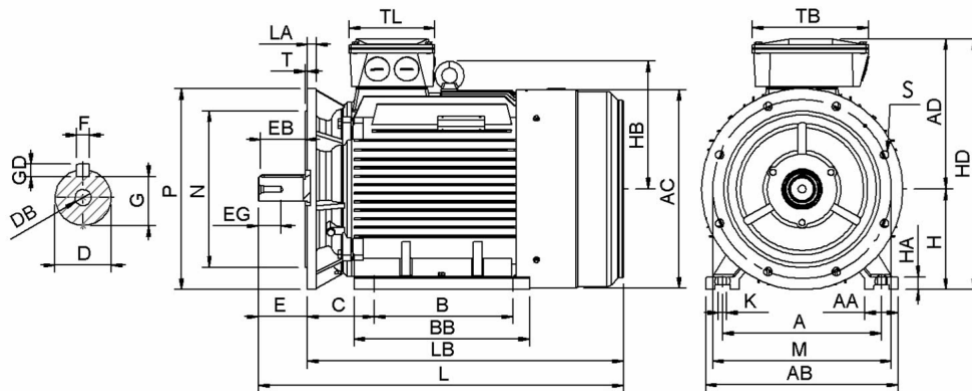


## Data sheet

Item no. / Configuration 01 / 3106280-55.0-040201-S-A00873  
 Description HMC3 280M-6 400/690 V 50 Hz 55 kW  
 Classing society  
 Headline 1  
 Date 21-05-2024

Sales order SODK-178243  
 Ref. no. Datablade  
 Line no.  
 Our reference Frederik Juul Møller  
 Page 1 of 2



|          |           |           |           |            |          |           |          |          |          |           |          |           |           |          |          |
|----------|-----------|-----------|-----------|------------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-----------|----------|----------|
| A 457,00 | AA 85,00  | AB 542,00 | AC 546,00 | AD 403,00  | B 419,00 | BB 536,00 | C 190,00 | D 75,00  | E 140,00 | EB 130,00 | EG 56,00 | F 20,00   | G 67,50   | GD 12,00 | H 280,00 |
| HA 35,00 | HB 361,00 | HD 683,00 | K 24,00   | L 1.030,00 | LA 22,00 | LB 890,00 | M 500,00 | N 450,00 | P 550,00 | S 18,50   | T 5,00   | TB 305,00 | TL 230,00 |          |          |

### Main

|                      |           |                                 |                                               |
|----------------------|-----------|---------------------------------|-----------------------------------------------|
| Frame size           | 280       | Net weight (kg)                 | 576                                           |
| Efficiency class     | IE3       | Tropical insulation             | No                                            |
| Efficiency frequency | 50        | Ingress protection class        | IP55                                          |
| Poles                | 6         | Winding variant                 | 400 VD / 690 VY 50 Hz + 480 VD / 830 VY 60 Hz |
| Mounting             | B35       | Thermal insulation class / rise | F / B                                         |
| Cooling method       | IC411     | Electrical insulation           | Standard (1350 V @ 0.8 μs)                    |
| Frame material       | Cast iron | Color                           | RAL 9005                                      |
| Rain cap             | No        | Keyway                          | Closed                                        |
| Explosion protection | No        | Key balancing                   | Half key                                      |

### Electrical data

|                                 |                  |                    |  |  |  |  |
|---------------------------------|------------------|--------------------|--|--|--|--|
| Rated power (kW)                | 55               | 55                 |  |  |  |  |
| Frequency (Hz)                  | 50               | 60                 |  |  |  |  |
| Voltage - VD / VY               | 400 / 690        | 480 / 830          |  |  |  |  |
| Full load current - VD / VY (A) | 99.7 / 57.6      | 82.1 / 47.4        |  |  |  |  |
| Speed (rpm)                     | 990              | 1188               |  |  |  |  |
| Power factor (100%)             | 0.86             | 0.86               |  |  |  |  |
| Efficiency 50% / 75% / 100%     | 92.5 / 94.2 / 94 | 92.2 / 93.9 / 93.7 |  |  |  |  |
| Efficiency                      | IE3              | IE3                |  |  |  |  |
| Ist/In                          | 6.44             | 4.56               |  |  |  |  |
| Full load torque (Nm)           | 531              | 442                |  |  |  |  |
| Tst/Tn                          | 2.04             | 2.45               |  |  |  |  |
| Tmax/Tn                         | 2.3              | 2.76               |  |  |  |  |
| Duty                            | S1               | S1                 |  |  |  |  |
| Ambient temp. (°C)              | 40               | 40                 |  |  |  |  |
| Rotor inertia (kgm²)            | 2.146            | 2                  |  |  |  |  |
| Sound pressure level (dBA)      | 60.5             | 66                 |  |  |  |  |
| Winding resist. (ohm)           | 0.097            | 0.0323             |  |  |  |  |
| Temp. rise winding (K)          | 64.7             | 0                  |  |  |  |  |
| Temp. rise surface (K)          | 51               | 0                  |  |  |  |  |
| Starting time (sec.)            |                  |                    |  |  |  |  |
| No load current (A)             | 38.3             | 38.3               |  |  |  |  |

## Data sheet

|                          |                                   |               |                      |
|--------------------------|-----------------------------------|---------------|----------------------|
| Item no. / Configuration | 01 / 3106280-55.0-040201-S-A00873 | Sales order   | SODK-178243          |
| Description              | HMC3 280M-6 400/690 V 50 Hz 55 kW | Ref. no.      | Datablade            |
| Classing society         |                                   | Line no.      |                      |
| Headline 1               |                                   | Our reference | Frederik Juul Møller |
| Date                     | 21-05-2024                        | Page          | 2 of 2               |

| Bearings                 |                            | Thermal protection                  |                                        |
|--------------------------|----------------------------|-------------------------------------|----------------------------------------|
| Bearing (DE)             | 6317 / Open / C3           | Thermal protection main             | PTC 3 x 155°C                          |
| Bearing (NDE)            | 6314 / Open / C3           | Thermal protection secondary        | None                                   |
| Fixed bearing            | DE                         | Anti-condensation heater            | None                                   |
| Bearing type (DE)        | DGBB                       | Temperature detector (PT100)        | No (Bearings)                          |
| Bearing type (NDE)       | DGBB                       | Temperature detector (PT100)        | No (Windings)                          |
| Bearing brand (DE)       | SKF, NSK, FAG, NTN, Timken | Terminal box information            |                                        |
| Bearing brand (NDE)      | SKF, NSK, FAG, NTN, Timken | Cable entry (main)                  | 2x M63x1.5 / N/A / Blind cap / Plastic |
| Grease (DE)              | -30°C to +150°C            | Cable entry (accessory)             | 2x M20x1.5 / N/A / Blind cap / Plastic |
| Grease (NDE)             | -30°C to +150°C            | Terminal box position (main)        | DE top                                 |
| Grease nipple type (DE)  | DIN 71412 H1 M10x1 (brass) | Cable entry direction (main)        | Right from DE                          |
| Grease nipple type (NDE) | DIN 71412 H1 M10x1 (brass) | Cable entry direction (accessory)   | NDE                                    |
| Bearing preload          | Wave spring NDE            | Terminal box type (main)            | Standard                               |
| Bearing seat roughness   | Standard (1.6 - 3.2 µm)    | Terminal box type (auxiliary)       | No                                     |
|                          |                            | Terminal box gasket material (main) | EPDM                                   |

| Miscellaneous / Special             |               |                                    |                   |
|-------------------------------------|---------------|------------------------------------|-------------------|
| Standard series                     | IEC 60034     | Phase / voltage range              | LVSSTPIM          |
| Direction of rotation               | CW            | Amb. temperature min/max           | -20°C / +40°C     |
| IEC vibration class                 | A             | Altitude above s.l. max. (m)       | 1000              |
| Drain hole                          | Yes           | Industrial certification           | CE, UKCA          |
| Shaft                               | IEC standard  | External earth screw               | Yes               |
| Painting system                     | C3L           | Fan material                       | Plastic           |
| Color                               | RAL 9005      | Prepared for SPM adapter           | No                |
| Gloss                               | 1 - 10 (matt) | SPM adapter type                   | N/A               |
| Terminal board thread               | M10           | DE shield/flange material          | Cast iron         |
| Nameplate                           | Multi voltage | NDE shield material                | Cast iron         |
| Materials approval                  | None          | Oil seal ring type (DE)            | Type A (DIN 3760) |
| External fasteners material         | 8.8           | Oil seal ring material (DE)        | NBR               |
| Special packaging                   | No            | Oil seal ring type (NDE)           | Type A (DIN 3760) |
| Special electrical design           | No            | Oil seal ring material (NDE)       | NBR               |
| Special mechanical design (shaft)   | No            | Special mechanical design (other)  | No                |
| Special mechanical design (housing) | No            |                                    |                   |
| Special mechanical design (flange)  | No            | Special mechanical design (other2) | No                |
| Special mechanical design (feet)    | No            | Special mechanical design (other3) | No                |

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.