



## Datasheet for three-phase Squirrel-Cage-Motors

**Order Number: 1LE0101-1BB23-4AA4**

Client-order-no.:

Order-no.:

Offer-no.:

Remarks:

Item-no.:

Consignment-no.:

Project:

### Electrical data

|                         |                     |
|-------------------------|---------------------|
| Rated motor voltage:    | 400VD / 690VY       |
| Frequency:              | 50 Hz               |
| Rated motor power:      | 4 kW                |
| Rated motor speed:      | 1445 1/min          |
| Maximum Speed:          | 3600 1/min          |
| Number of poles:        | 4                   |
| No load current:        | 4.45 A              |
| Rated current:          | 8.5 A               |
| Starting current:       | 7.1                 |
| Rated motor torque:     | 26.44 Nm            |
| Torque class:           | L                   |
| Starting torque:        | 2.7                 |
| Breakdown torque:       | 3.1                 |
| Efficiency class:       | IE 2                |
| Efficiency 100% Load:   | 86.6%               |
| Efficiency 75% Load:    | 87.1%               |
| Efficiency 50% Load:    | 85.8%               |
| Power factor 100% Load: | 0.79                |
| Motor protection:       | without             |
| Terminal box position:  | terminal box on top |

### Mechanical data

|                                      |                         |
|--------------------------------------|-------------------------|
| Noise (Lpfa):                        | 55.00 dB(A)             |
| Moment of inertia:                   | 0.011 kg m <sup>2</sup> |
| Cantilever force for x0:             | 1870 N                  |
| Cantilever force for xmax:           | 1540 N                  |
| Bearing drive end:                   | 6306 2Z C3              |
| Bearing non-drive end (hor.mount.):  | 6206 2Z C3              |
| Bearing non-drive end (vert.mount.): | 6206 2Z C3              |
| Drain holes:                         | yes                     |
| Regreasing device:                   | no                      |
| Relubrication interval at 40°C:      |                         |
| Coating:                             | RAL 7030 stone gray     |

### Site conditions

|                               |                  |
|-------------------------------|------------------|
| Ambient temperature:          | -20.0°C to +40°C |
| Altitude above sea level:     | 1000m            |
| Standards and specifications: | IEC              |

### General data

|                        |                          |
|------------------------|--------------------------|
| Frame size:            | 112M                     |
| Type of construction:  | IMB3                     |
| Weight in kg (net):    | 45 kg                    |
| Frame material:        | Cast iron                |
| Fan cover material:    | metal                    |
| Degree of protection:  | IP 55                    |
| Method of cooling:     | Self-ventilated (IC 411) |
| Vibration class:       | A (standard)             |
| Insulation:            | 155(F) / 130(B)          |
| Duty type:             | S1 = cont. operation     |
| Direction of rotation: | bidirectional            |

### Terminal box

|                                  |                       |
|----------------------------------|-----------------------|
| Material of terminal box:        | Cast iron             |
| Terminal screw thread:           | M4                    |
| Max. cable cross-sectional area: | 4 mm <sup>2</sup>     |
| Cable diameter from ... to ...:  | 18 - 25 mm            |
| Cable entry:                     | M32 x 1.5 + M32 x 1.5 |
| Cable gland:                     | no                    |

### Explosion protection

|                     |                    |
|---------------------|--------------------|
| Type of protection: | without (standard) |
|---------------------|--------------------|

### Special configurations

Technical and ordering data are subject to change. There may be discrepancies between calculated and rating plate values.

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