

Datasheet for three-phase Squirrel-Cage-Motors

Order Number: 1LE0101-2BA23-4AB4

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: | 45 kW |
| Rated motor speed: | 2965 1/min |
| Maximum Speed: | 3600 1/min |
| Number of poles: | 2 |
| No load current: | 23.0 A |
| Rated current: | 80 A |
| Starting current: | 7.9 |
| Rated motor torque: | 145 Nm |
| Torque class: | K |
| Starting torque: | 2.5 |
| Breakdown torque: | 3.1 |
| Efficiency class: | IE 2 |
| Efficiency 100% Load: | 92.9% |
| Efficiency 75% Load: | 93.1% |
| Efficiency 50% Load: | 92.5% |
| Power factor 100% Load: | 0.88 |
| Motor protection: | 3 PTC thermistors for tripping |
| Terminal box position: | terminal box on top |

Mechanical data

| | |
|--------------------------------------|------------------------|
| Noise (Lpfa): | 74.00 dB(A) |
| Moment of inertia: | 0.24 kg m ² |
| Cantilever force for x0: | 3000 N |
| Cantilever force for xmax: | 2540 N |
| Bearing drive end: | 6213 Z C3 |
| Bearing non-drive end (hor.mount.): | 6213 Z C3 |
| Bearing non-drive end (vert.mount.): | 6213 Z 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: | 225M |
| Type of construction: | IMB3 |
| Weight in kg (net): | 307 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: | M8 |
| Max. cable cross-sectional area: | 35 mm ² |
| Cable diameter from ... to ...: | 32 - 38 mm |
| Cable entry: | M50 x 1.5 + M50 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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