

Data sheet for three-phase Squirrel-Cage-Motors



MLFB-Ordering data : 1LA7090-4AA10

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Electrical data:

| | | | | | | |
|----------------------------|---|--------|-------------|-------|-------|-------|
| Rated voltage : | (1) 230 VD/400 VY, 50 Hz, 460 VY, 60 Hz | | | | | |
| Frequency : | 50 Hz | | 60 Hz | | | |
| Rated power : | 1.10 kW | | 1.30 kW | | | |
| Rated speed : | 1415 1/ min | | 1715 1/ min | | | |
| Rated torque : | 7.4 Nm | | 7.2 Nm | | | |
| Rated current (IE) : | VD | VY | VY | | | |
| | 4.52 A | 2.60 A | 2.45 A | | | |
| Starting / rated current : | 4.6 | | 5.0 | | | |
| Breakdown / rated torque : | 2.4 | | 2.4 | | | |
| Starting / rated torque : | 2.3 | | 2.3 | | | |
| Efficiency % | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 |
| | 75.0% | 75.0% | 72.0% | 79.0% | 79.5% | 77.0% |
| Power factor : | 0.81 | 0.76 | 0.66 | 0.82 | 0.77 | 0.67 |
| Efficiency class : | IE1 | | IE1 | | | |

Mechanical data:

| | | |
|--|--|----------|
| Sound pressure level 50Hz/60Hz (load) : | 48 dB(A) | 52 dB(A) |
| Moment of inertia : | 0.0024 kg*m ² | |
| Bearing DE : | 6205 2ZC3 | |
| Bearing NDE : | 6004 2ZC3 | |
| Type of bearing : | Floating bearings pre-loaded DE (standard) | |
| Condensate drainage holes : | No | |
| Regreasing device : | No | |
| Lubricants : | Esso Unirex N3 | |
| Grease lifetime/Relubrication interval : | 40000 h | |
| Quantity of grease for relubrication : | null g | |
| External earthing terminal : | No | |
| Coating : | Special paint finish RAL 7030 stone gray | |

Environmental conditions:

| | |
|--------------------------------|------------------------|
| Ambient temperature : | -20 °C - +40 °C |
| Altitude above sea level : | 1000 m |
| Standards and specifications : | IEC, DIN, ISO, VDE, EN |

General data:

| | |
|--|--|
| Frame size | 090 S |
| Design of electrical machine : | (0) IM B3 / B6 / B7 / B8 / V5 without canopy |
| Weight in kg, without optional accessories : | 13.00 kg |
| Frame material : | Aluminum |
| Degree of protection : | IP 55 |
| Method of cooling, TEFC : | IC 411 |
| Vibration class : | A (Standard) |
| Insulation : | 155(F) to 130(B) |
| Duty type : | S1 - continuous duty |
| Direction of rotation : | Bi-directional |

Terminal box:

| | |
|----------------------------------|--------|
| Material of terminal box : | |
| Type of terminal box : | gk 030 |
| Contact screw thread : | |
| Max. cross-sectional area : | |
| Cable diameter from ... to ... : | |
| Cable entry : | |
| Cable gland : | |

Special design:

Tel: 48 0000 49 (60 Lines)

