

## Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LA7070-4AB11

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 :              | 0.25 kW                                 |        | 0.29 kW     |        |       |       |
| Rated speed :              | 1350 1/ min                             |        | 1650 1/ min |        |       |       |
| Rated torque :             | 1.8 Nm                                  |        | 1.7 Nm      |        |       |       |
| Rated current (IE) :       | VD                                      | VY     |             | VY     |       |       |
|                            | 1.34 A                                  | 0.77 A |             | 0.76 A |       |       |
| Starting / rated current : | 3.0                                     |        | 3.3         |        |       |       |
| Breakdown / rated torque : | 1.9                                     |        | 2.0         |        |       |       |
| Starting / rated torque :  | 1.9                                     |        | 1.9         |        |       |       |
|                            | 4/4                                     | 3/4    | 2/4         | 4/4    | 3/4   | 2/4   |
| Efficiency %               | 61.9%                                   | 60.4%  | 55.9%       | 61.9%  | 60.4% | 55.9% |
| Power factor :             | 0.78                                    | 0.72   | 0.61        | 0.77   | 0.71  | 0.59  |
| Efficiency class :         | -/-                                     |        | -/-         |        |       |       |

### Mechanical data:

|                                          |                                            |          |
|------------------------------------------|--------------------------------------------|----------|
| Sound pressure level 50Hz/60Hz (load) :  | 44 dB(A)                                   | 48 dB(A) |
| Moment of inertia :                      | 0.00052 kg*m²                              |          |
| Bearing DE :                             | 6202 2ZC3                                  |          |
| Bearing NDE :                            | 6202 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                                   | 071 M                         |
| Design of electrical machine :               | (1) IM B5 / V1 without canopy |
| Weight in kg, without optional accessories : | 4.80 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: