

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

MLFB-Ordering data : 1LA9070-4LA12

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 :              |  | 0.45 kW                                 |        |       | 0.52 kW     |     |     |
| Rated speed :              |  | 1340 1/ min                             |        |       | 1640 1/ min |     |     |
| Rated torque :             |  | 3.2 Nm                                  |        |       | 3.0 Nm      |     |     |
| Rated current (IE) :       |  | VD                                      | VY     |       | VY          |     |     |
|                            |  | 2.47 A                                  | 1.42 A |       |             |     |     |
| Starting / rated current : |  | 3.4                                     |        |       |             |     |     |
| Breakdown / rated torque : |  | 2.3                                     |        |       |             |     |     |
| Starting / rated torque :  |  | 2.3                                     |        |       |             |     |     |
|                            |  | 4/4                                     | 3/4    | 2/4   | 4/4         | 3/4 | 2/4 |
| Efficiency %               |  | 63.5%                                   | 62.5%  | 58.5% |             |     |     |
| Power factor :             |  | 0.71                                    | 0.62   | 0.50  |             |     |     |
| Efficiency class :         |  | -/-                                     |        |       |             |     |     |

### Mechanical data:

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| Sound pressure level 50Hz/60Hz (load) :  | 44 dB(A)                                   |
| Moment of inertia :                      | 0.00076 kg*m <sup>2</sup>                  |
| 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 :               | (2) IM B14 / V18 / V19, standard flange |
| Weight in kg, without optional accessories : | 6.00 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: