

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

MLFB-Ordering data : **1LA5186-6AA60-Z**  
D22+K52

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

Item no. :  
Consignment no. :  
Project :

### Electrical data:

|                            |  |                                         |         |         |             |       |       |
|----------------------------|--|-----------------------------------------|---------|---------|-------------|-------|-------|
| Rated voltage :            |  | (6) 400 VD/690 VY, 50 Hz, 460 VD, 60 Hz |         |         |             |       |       |
| Frequency :                |  | 50 Hz                                   |         |         | 60 Hz       |       |       |
| Rated power :              |  | 15.00 kW                                |         |         | 18.00 kW    |       |       |
| Rated speed :              |  | 970 1/ min                              |         |         | 1170 1/ min |       |       |
| Rated torque :             |  | 147.7 Nm                                |         |         | 146.9 Nm    |       |       |
| Rated current (IE) :       |  | VD                                      | VY      | VD      |             |       |       |
|                            |  | 32.00 A                                 | 18.55 A | 33.00 A |             |       |       |
| Starting / rated current : |  | 5.2                                     |         |         | 5.2         |       |       |
| Breakdown / rated torque : |  | 2.4                                     |         |         | 2.4         |       |       |
| Starting / rated torque :  |  | 2.0                                     |         |         | 2.0         |       |       |
|                            |  | 4/4                                     | 3/4     | 2/4     | 4/4         | 3/4   | 2/4   |
| Efficiency %               |  | 87.7%                                   | 87.7%   | 86.7%   | 88.5%       | 88.5% | 87.5% |
| Power factor :             |  | 0.77                                    | 0.71    | 0.59    | 0.77        | 0.71  | 0.59  |
| Efficiency class :         |  | IE1                                     |         |         | -/-         |       |       |

### Mechanical data:

|                                          |                                          |          |
|------------------------------------------|------------------------------------------|----------|
| Sound pressure level 50Hz/60Hz (load) :  | 66 dB(A)                                 | 70 dB(A) |
| Moment of inertia :                      | 0.15 kg*m <sup>2</sup>                   |          |
| Bearing DE :                             | 6210 ZC3                                 |          |
| Bearing NDE :                            | 6210 ZC3                                 |          |
| Type of bearing :                        | Locating bearing NDE (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                                   | 180 L                                        |
| Design of electrical machine :               | (0) IM B3 / B6 / B7 / B8 / V5 without canopy |
| Weight in kg, without optional accessories : | 126.00 kg                                    |
| Frame material :                             | Aluminum                                     |
| Degree of protection :                       | IP 56                                        |
| 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 330 |
| Contact screw thread :           |        |
| Max. cross-sectional area :      |        |
| Cable diameter from ... to ... : |        |
| Cable entry :                    |        |
| Cable gland :                    |        |

### Special design:

|     |                                                                                    |
|-----|------------------------------------------------------------------------------------|
| D22 | motor without CE character for export outside the EEA (see EU regulation 640/2009) |
| K52 | IP56 degree of protection (non-heavy sea)                                          |