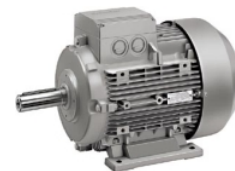


## Data sheet for three-phase Squirrel-Cage-Motors



MLFB-Ordering data : **1LA9090-4KA10**

without (standard)

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                                 |        | 1.27 kW     |       |       |       |
| Rated speed :              | 1440 1/ min                             |        | 1740 1/ min |       |       |       |
| Rated torque :             | 7.3 Nm                                  |        | 7.0 Nm      |       |       |       |
| Rated current (IE) :       | VD                                      | VY     | VY          |       |       |       |
|                            | 4.43 A                                  | 2.55 A | 2.40 A      |       |       |       |
| Starting / rated current : | 6.4                                     |        | 6.9         |       |       |       |
| Breakdown / rated torque : | 3.2                                     |        | 3.3         |       |       |       |
| Starting / rated torque :  | 3.1                                     |        | 2.7         |       |       |       |
|                            | 4/4                                     | 3/4    | 2/4         | 4/4   | 3/4   | 2/4   |
| Efficiency %               | 81.4%                                   | 81.4%  | 80.4%       | 84.0% | 84.0% | 83.0% |
| Power factor :             | 0.77                                    | 0.71   | 0.59        | 0.79  | 0.74  | 0.63  |
| Efficiency class :         | IE2                                     |        |             | IE2   |       |       |

### Mechanical data:

|  |  |          |
|--|--|----------|
| Sound pressure level 50Hz/60Hz (load) :  | 48 dB(A)                                   | 52 dB(A) |
| Moment of inertia :                      | 0.0033 kg*m <sup>2</sup>                   |          |
| 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 : | 15.00 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 :       | Aluminum             |
| Type of terminal box :           | gk 030               |
| Contact screw thread :           | M4                   |
| Max. cross-sectional area :      | 1.50 mm <sup>2</sup> |
| Cable diameter from ... to ... : | 9.00 mm - 17.00 mm   |
| Cable entry :                    | 1xM25x1,5-1xM16x1,5  |
| Cable gland :                    | 2 plugs              |

### Special design: