



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LA7083-4AA12

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 :              | 0.75 kW                                 |        | 0.86 kW     |        |       |       |
| Rated speed :              | 1395 1/ min                             |        | 1695 1/ min |        |       |       |
| Rated torque :             | 5.1 Nm                                  |        | 4.8 Nm      |        |       |       |
| Rated current (IE) :       | VD                                      | VY     |             | VY     |       |       |
|                            | 3.27 A                                  | 1.88 A |             | 1.79 A |       |       |
| Starting / rated current : | 4.2                                     |        | 5.1         |        |       |       |
| Breakdown / rated torque : | 2.3                                     |        | 2.3         |        |       |       |
| Starting / rated torque :  | 2.3                                     |        | 2.3         |        |       |       |
|                            | 4/4                                     | 3/4    | 2/4         | 4/4    | 3/4   | 2/4   |
| Efficiency %               | 72.1%                                   | 72.1%  | 68.1%       | 75.5%  | 75.5% | 72.5% |
| Power factor :             | 0.80                                    | 0.75   | 0.66        | 0.80   | 0.75  | 0.65  |
| Efficiency class :         | IE1                                     |        | -/-         |        |       |       |

Mechanical data:

|                                          |                                            |          |
|------------------------------------------|--------------------------------------------|----------|
| Sound pressure level 50Hz/60Hz (load) :  | 47 dB(A)                                   | 51 dB(A) |
| Moment of inertia :                      | 0.0017 kg*m²                               |          |
| Bearing DE :                             | 6004 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                                   | 080 M                                   |
| Design of electrical machine :               | (2) IM B14 / V18 / V19, standard flange |
| Weight in kg, without optional accessories : | 10.00 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: