



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4283-2AB60-Z  
A11+D22

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 :                                           |  |  | 90.00 kW   |        |         | 101.00 kW / |
| Rated speed :                                           |  |  | 2975 1/min |        |         | 3575 1/min  |
| Rated torque :                                          |  |  | 288.9 Nm   |        |         | 269.8 Nm    |
| Rated current (IE) :                                    |  |  | VD         | VY     | VD      | VY          |
|                                                         |  |  | 157.0 A    | 91.0 A | 151.0 A |             |
| Starting / rated current :                              |  |  | 7.2        |        |         | 6.9         |
| Breakdown / rated torque :                              |  |  | 3.1        |        |         | 3.1         |
| Starting / rated torque :                               |  |  | 2.6        |        |         | 2.6         |
|                                                         |  |  | 4/4        | 3/4    | 2/4     | 4/4         |
| Efficiency %                                            |  |  | 93.0 %     | 93.1 % | 92.5 %  | 93.0 %      |
|                                                         |  |  |            |        |         | 92.9 %      |
|                                                         |  |  |            |        |         | 92.2 %      |
| Power factor :                                          |  |  | 0.89       | 0.87   | 0.80    | 0.90        |
|                                                         |  |  |            |        |         | 0.90        |
|                                                         |  |  |            |        |         | 0.82        |
| Efficiency class :                                      |  |  | IE1        |        |         | IE1         |
| no value                                                |  |  |            |        |         |             |
| No                                                      |  |  |            |        |         |             |

| Mechanical data :                        |                                 |
|------------------------------------------|---------------------------------|
| Sound pressure level 50Hz/60Hz (load) :  |                                 |
|                                          | 74.0(A) 78.0(A)                 |
| Moment of inertia :                      |                                 |
|                                          | 0.83 kg m²                      |
| Bearing DE :                             |                                 |
|                                          | 6217 C3                         |
| Bearing NDE :                            |                                 |
|                                          | 6217 C3                         |
| Type of bearing :                        |                                 |
|                                          | Locating bearing NDE (standard) |
| Condensate drainage holes :              |                                 |
|                                          | Yes                             |
| Regreasing device :                      |                                 |
|                                          | Yes (standard)                  |
| Lubricants :                             |                                 |
|                                          | Esso Unirex N3                  |
| Grease lifetime/Relubrication interval : |                                 |
|                                          | 4000 h                          |
| Quantity of grease for relubrication :   |                                 |
|                                          | 25.0 g                          |
| External earthing terminal :             |                                 |
|                                          | Yes                             |
| Coating :                                |                                 |

| Explosion protection : |                    |
|------------------------|--------------------|
| Type of protection :   |                    |
|                        | without (standard) |

| Environmental conditions :     |                        |
|--------------------------------|------------------------|
| Ambient temperature :          |                        |
|                                | -20.0 °C - +40 °C      |
| Altitude above sea level :     |                        |
|                                | 1000 m                 |
| Standards and specifications : |                        |
|                                | IEC, DIN, ISO, VDE, EN |

| General data :                               |                                              |
|----------------------------------------------|----------------------------------------------|
| Frame size :                                 |                                              |
|                                              | 280 M                                        |
| Design of electrical machine :               |                                              |
|                                              | (0) IM B3 / B6 / B7 / B8 / V5 without canopy |
| Weight in kg, without optional accessories : |                                              |
|                                              | 540.00 kg                                    |
| Frame material :                             |                                              |
|                                              | Cast iron                                    |
| Degree of protection :                       |                                              |
|                                              | IP 55                                        |
| Method of cooling, TEFC :                    |                                              |
|                                              | IC 411                                       |
| Vibration class :                            |                                              |
|                                              | A                                            |
| Insulation :                                 |                                              |
|                                              | 155(F) to 130(B)                             |
| Duty type :                                  |                                              |
|                                              | S1 - continuous duty                         |
| Direction of rotation :                      |                                              |
|                                              | Bi-directional                               |

| Terminal box :                   |                     |
|----------------------------------|---------------------|
| Material of terminal box :       |                     |
|                                  | Cast iron           |
| Type of terminal box :           |                     |
|                                  | gt 520              |
| Contact screw thread :           |                     |
|                                  | M10                 |
| Max. cross-sectional area :      |                     |
|                                  | 120.00 mm²          |
| Cable diameter from ... to ... : |                     |
|                                  | 34.0mm - 42.0mm     |
| Cable entry :                    |                     |
|                                  | 2xM63x1,5-2xM20x1,5 |
| Cable gland null                 |                     |
|                                  | 4 plugs             |

| Special design : |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| A11              | PTC thermistor motor protection using 3 integrated temperature sensors for shutdown |
| D22              | motor without CE character for export outside the EEA (see EU regulation 640/2009)  |