

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

MLFB-Ordering data : **1LG4280-2AB60-Z**  
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 :              | 75.00 kW                                |        |        | 84.00 kW / |        |        |
| Rated speed :              | 2975 1/min                              |        |        | 3575 1/min |        |        |
| Rated torque :             | 240.8 Nm                                |        |        | 224.4 Nm   |        |        |
| Rated current (IE) :       | VD                                      | VY     |        | VD         | VY     |        |
|                            | 134.0 A                                 | 77.7 A |        | 130.0 A    |        |        |
| Starting / rated current : | 7.5                                     |        |        | 7.5        |        |        |
| Breakdown / rated torque : | 3.1                                     |        |        | 3.1        |        |        |
| Starting / rated torque :  | 2.5                                     |        |        | 2.5        |        |        |
|                            | 4/4                                     | 3/4    | 2/4    | 4/4        | 3/4    | 2/4    |
| Efficiency %               | 92.7 %                                  | 92.5 % | 91.5 % | 93.0 %     | 92.5 % | 91.0 % |
| Power factor :             | 0.87                                    | 0.84   | 0.75   | 0.87       | 0.87   | 0.77   |
| Efficiency class :         | IE1                                     |        |        | IE1        |        |        |
|                            | no value                                |        |        |            |        |        |
|                            | No                                      |        |        |            |        |        |

### Mechanical data :

|                                          |                                 |         |
|------------------------------------------|---------------------------------|---------|
| Sound pressure level 50Hz/60Hz (load) :  | 74.0(A)                         | 78.0(A) |
| Moment of inertia :                      | 0.72 kg m <sup>2</sup>          |         |
| 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 S                                        |
| Design of electrical machine :               | (0) IM B3 / B6 / B7 / B8 / V5 without canopy |
| Weight in kg, without optional accessories : | 500.00 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 mm <sup>2</sup> |
| Cable diameter from ... to ... : | 34.0mm - 42.0mm        |
| Cable entry :                    | 2xM63x1,5              |
| Cable gland null                 | 2 plugs                |

### Special design :

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009)