



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4283-4AA66-Z  
A23+D22+G17+H70+K20+L27

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   |        | 104.00 kW / |        |
| Rated speed :                                           |  |  | 1485 1/min |        | 1785 1/min  |        |
| Rated torque :                                          |  |  | 578.8 Nm   |        | 556.4 Nm    |        |
| Rated current (IE) :                                    |  |  | VD         | VY     | VD          | VY     |
|                                                         |  |  | 162.0 A    | 93.9 A | 162.0 A     |        |
| Starting / rated current :                              |  |  | 7.4        |        | 7.4         |        |
| Breakdown / rated torque :                              |  |  | 3.0        |        | 3.0         |        |
| Starting / rated torque :                               |  |  | 2.5        |        | 2.5         |        |
|                                                         |  |  | 4/4        | 3/4    | 2/4         | 4/4    |
| Efficiency %                                            |  |  | 93.0 %     | 92.9 % | 92.0 %      | 93.5 % |
|                                                         |  |  |            |        |             | 93.4 % |
|                                                         |  |  |            |        |             | 92.4 % |
| Power factor :                                          |  |  | 0.86       | 0.82   | 0.73        | 0.86   |
|                                                         |  |  |            |        |             | 0.86   |
|                                                         |  |  |            |        |             | 0.73   |
| Efficiency class :                                      |  |  | IE1        |        | IE1         |        |
| no value                                                |  |  |            |        |             |        |
| No                                                      |  |  |            |        |             |        |

| Mechanical data :                        |                                 |
|------------------------------------------|---------------------------------|
| Sound pressure level 50Hz/60Hz (load) :  |                                 |
|                                          | 70.0(A) 73.0(A)                 |
| Moment of inertia :                      |                                 |
|                                          | 1.40 kg m²                      |
| Bearing DE :                             |                                 |
|                                          | NU317 E                         |
| Bearing NDE :                            |                                 |
|                                          | 6317 C3                         |
| Type of bearing :                        |                                 |
|                                          | Locating bearing NDE (standard) |
| Condensate drainage holes :              |                                 |
|                                          | Yes                             |
| Regreasing device :                      |                                 |
|                                          | Yes (standard)                  |
| Lubricants :                             |                                 |
|                                          | Esso Unirex N3                  |
| Grease lifetime/Relubrication interval : |                                 |
|                                          | 8000 h                          |
| Quantity of grease for relubrication :   |                                 |
|                                          | 30.0 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 :               |                      |
|                                              | (6) B35              |
| Weight in kg, without optional accessories : |                      |
|                                              | 580.00 kg            |
| Frame material :                             |                      |
|                                              | Cast iron            |
| Degree of protection :                       |                      |
|                                              | IP 55                |
| Method of cooling, TEFC :                    |                      |
|                                              | IC 416               |
| 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 : |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| A23              | Motor temperature sensing with integrated KTY 84-130 temperature sensor            |
| D22              | motor without CE character for export outside the EEA (see EU regulation 640/2009) |
| G17              | Mounting a separately-driven (external) fan                                        |
| H70              | Mounted rotary pulse encoder LL 861 900 220                                        |
| K20              | Bearing design for increased cantilever forces                                     |
| L27              | Insulated bearing cartridge                                                        |