



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4310-6AA60

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  |        |         | 90.00 kW / |        |        |
| Rated speed :                                           |  |  | 988 1/min |        |         | 1188 1/min |        |        |
| Rated torque :                                          |  |  | 724.9 Nm  |        |         | 723.5 Nm   |        |        |
| Rated current (IE) :                                    |  |  | VD        | VY     | VD      | VY         |        |        |
|                                                         |  |  | 139.0 A   | 80.6 A | 143.0 A |            |        |        |
| Starting / rated current :                              |  |  | 6.5       |        |         | 6.4        |        |        |
| Breakdown / rated torque :                              |  |  | 2.8       |        |         | 2.7        |        |        |
| Starting / rated torque :                               |  |  | 2.5       |        |         | 2.5        |        |        |
| Efficiency %                                            |  |  | 4/4       | 3/4    | 2/4     | 4/4        | 3/4    | 2/4    |
|                                                         |  |  | 92.6 %    | 92.8 % | 92.1 %  | 93.0 %     | 93.1 % | 92.6 % |
| Power factor :                                          |  |  | 0.84      | 0.78   | 0.67    | 0.85       | 0.85   | 0.73   |
| Efficiency class :                                      |  |  | IE1       |        |         | IE1        |        |        |
| no value                                                |  |  |           |        |         |            |        |        |
| No                                                      |  |  |           |        |         |            |        |        |

| Mechanical data :                        |  |                 |
|------------------------------------------|--|-----------------|
| Sound pressure level 50Hz/60Hz (load) :  |  |                 |
|                                          |  | 65.0(A) 68.0(A) |
| Moment of inertia :                      |  |                 |
|                                          |  |                 |
| Bearing DE :                             |  |                 |
|                                          |  |                 |
| Bearing NDE :                            |  |                 |
|                                          |  |                 |
| Type of bearing :                        |  |                 |
|                                          |  |                 |
| Condensate drainage holes :              |  |                 |
|                                          |  |                 |
| Regreasing device :                      |  |                 |
|                                          |  |                 |
| Lubricants :                             |  |                 |
|                                          |  |                 |
| Grease lifetime/Relubrication interval : |  |                 |
|                                          |  |                 |
| Quantity of grease for relubrication :   |  |                 |
|                                          |  |                 |
| External earthing terminal :             |  |                 |
|                                          |  |                 |
| 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 :                                 | 315 S                                        |
| Design of electrical machine :               | (0) IM B3 / B6 / B7 / B8 / V5 without canopy |
| Weight in kg, without optional accessories : | 685.00 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 620          |
| Contact screw thread :           | M12             |
| Max. cross-sectional area :      | 240.00 mm²      |
| Cable diameter from ... to ... : | 38.0mm - 45.0mm |
| Cable entry :                    | 2xM63x1,5       |
| Cable gland null                 | 2 plugs         |

| Special design : |  |
|------------------|--|
|------------------|--|