

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4280-4AA96-Z
A11+B02+D31+L1U

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Electrical data :						
Rated voltage :	400 VD, 50 Hz, 460 VD, 60 Hz					
Frequency :	50 Hz		60 Hz			
Rated power :	75.00 kW		86.00 kW /			
Rated speed :	1485 1/min		1785 1/min			
Rated torque :	482.3 Nm		460.1 Nm			
Rated current (IE) :	VD		VD	VY		
	137.0 A		135.0 A			
Starting / rated current :	7.1		7.1			
Breakdown / rated torque :	3.0		3.0			
Starting / rated torque :	2.5		2.5			
Efficiency %	4/4	3/4	2/4	4/4	3/4	2/4
	92.7 %	92.6 %	91.6 %	93.2 %	93.0 %	92.0 %
Power factor :	0.85	0.81	0.71	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 :	1.20 kg m ²
Bearing DE :	6317 C3
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, EN, UL

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

General data :	
Frame size :	280 S
Design of electrical machine :	(6) B35
Weight in kg, without optional accessories :	535.00 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 ²
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
B02	Acceptance test certificate 3.1 acc. to EN 10204
D31	Version according to UL with "Recognition Mark"
L1U	400 VD, 50 Hz, 460 VD, 60Hz