

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : **1LG4313-4AA90-Z**
D03+D35+L1B+L27+M39+Y82

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

Item no. :
 Consignment no. :
 Project :

Elec. data - DOL ¹:

Rated voltage :		400 VD, 50 Hz	
Frequency :	50 Hz		
Rated power :	132.00 kW		
Rated speed :	1488 1/min		
Rated torque :	847.2 Nm		
Rated current (IE) :	VD		
	240.0 A		
Starting / rated current :	6.8		
Breakdown / rated torque :	2.9		
Starting / rated torque :	2.7		
	4/4	3/4	2/4
Efficiency %			
Power factor :	0.85	0.82	0.74
Efficiency class :	IE1		

Mechanical data :

Sound pressure level 50Hz/60Hz (load) :	70.0(A)
Moment of inertia :	2.30 kg m ²
Bearing DE :	6319 C3
Bearing NDE :	6319 C3
Type of bearing :	Locating bearing NDE (standard)
Condensate drainage holes :	Yes
Regreasing device :	Yes (standard)
Lubricants :	Aeroshell Grease 22
Grease lifetime/Relubrication interval :	6000 h
Quantity of grease for relubrication :	40.0 g
External earthing terminal :	Yes
Coating :	

Explosion protection :

Type of protection : II 3D Ex tc IIIB T125°C Dc, Zone 22
 converter operation

Environmental conditions :

Ambient temperature :	-40.0 °C - +40 °C
Altitude above sea level :	1000 m
Standards and specifications :	IEC, DIN, ISO, VDE, EN

General data :

Frame size :	315 M
Design of electrical machine :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	810.00 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 :	MICROMASTER DUTY S9
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 mm ²
Cable diameter from ... to ... :	38.0mm - 45.0mm
Cable entry :	2xM63x1,5-2xM20x1,5
Cable gland null	4 plugs

Special design :

D03	Minimum ambient temperature -40°C
D35	Ex Certificate EAC for Eurasian Customs Union
L1B	400 VD, 50 Hz
L27	Insulated bearing cartridge
M39	Version for Zone 22 for non-conductive dust (IP55), for converter operation, reduced power
Y82	

The electrical data of the motor, when operated in conjunction with a converter, must be determined by using the "Sinamics Micromaster Sizer" tool according to the required load data and duty cycle of the application.