



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4310-4AA10-Z
A23+B02+D22+H61+Y53

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

Item no. :
Consignment no. :
Project :

Electrical data :						
Rated voltage :		(1) 230 VD/400 VY, 50 Hz, 460 VY, 60 Hz				
Frequency :		50 Hz			60 Hz	
Rated power :		110.00 kW			127.00 kW /	
Rated speed :		1488 1/min			1786 1/min	
Rated torque :		706.0 Nm			679.1 Nm	
Rated current (IE) :		VD	VY		VD	VY
		347.8 A	200.0 A			200.0 A
Starting / rated current :		6.4			6.4	
Breakdown / rated torque :		2.8			2.7	
Starting / rated torque :		2.5			2.5	
		4/4	3/4	2/4	4/4	3/4
Efficiency %		93.3 %	93.3 %	92.7 %	93.5 %	93.4 %
					92.6 %	
Power factor :		0.85	0.82	0.73	0.85	0.85
					0.75	
Efficiency class :		IE1			IE1	
					no value	
		No				

Mechanical data :		
Sound pressure level 50Hz/60Hz (load) :	70.0(A)	75.0(A)
Moment of inertia :	1.90 kg m²	
Bearing DE :	6319 C3	
Bearing NDE :	6319 C3	
Type of bearing :	Locating bearing NDE (standard)	
Condensate drainage holes :	Yes	
Regreasing device :	Yes (standard)	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :	6000 h	
Quantity of grease for relubrication :	40.0 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 :	315 S
Design of electrical machine :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	730.00 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 620
Contact screw thread :	M12
Max. cross-sectional area :	240.00 mm²
Cable diameter from ... to ... :	38.0mm - 45.0mm
Cable entry :	2xM63x1,5-2xM20x1,5
Cable gland null	4 plugs

Special design :	
A23	Motor temperature sensing with integrated KTY 84-130 temperature sensor
B02	Acceptance test certificate 3.1 acc. to EN 10204
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)
H61	Mounted separately-driven fan and rotary pulse encoder 1XP8 001-1
Y53	