



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4183-4AA61-Z
A11+D22

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 :		18.50 kW			21.30 kW /	
Rated speed :		1465 1/min			1765 1/min	
Rated torque :		120.6 Nm			115.2 Nm	
Rated current (IE) :		VD	VY	VD	VY	
		35.5 A	20.6 A	34.5 A		
Starting / rated current :		6.7			6.7	
Breakdown / rated torque :		3.1			3.1	
Starting / rated torque :		2.4			2.4	
		4/4	3/4	2/4	4/4	3/4
Efficiency %		89.3 %	89.7 %	89.2 %	91.0 %	91.3 %
Power factor :		0.84	0.77	0.68	0.85	0.85
Efficiency class :		IE1			IE1	
		no value				
		No				

Mechanical data :		
Sound pressure level 50Hz/60Hz (load) :	65.0(A)	71.0(A)
Moment of inertia :	0.10 kg m²	
Bearing DE :	6210 ZC3	
Bearing NDE :	6210 ZC3	
Type of bearing :	Locating bearing NDE (standard)	
Condensate drainage holes :	Yes	
Regreasing device :	No	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :	40000 h	
Quantity of grease for relubrication :	null 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 :	180 M
Design of electrical machine :	(1) IM B5 / V1 without canopy
Weight in kg, without optional accessories :	140.00 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 :	Aluminum
Type of terminal box :	gk 330
Contact screw thread :	M5
Max. cross-sectional area :	16.00 mm²
Cable diameter from ... to ... :	19.0mm - 28.0mm
Cable entry :	2xM40x1,5-2xM20x1,5
Cable gland null	3 plugs

Special design :	
A11	PTC thermistor motor protection using 3 integrated temperature sensors for shutdown
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)