

Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : **1LG4183-4AA61**

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

Item no. :
Consignment no. :
Project :

Electrical data :						
Rated motor 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 motor speed :		1465 1/min			1765 1/min	
Rated motor torque :		120.6 Nm			115.2 Nm	
Rated motor current (IE) :		VD	VY		VD	VY
		35.5 A	20.6 A		34.5 A	
Starting / rated motor current :		6.7			6.7	
Breakdown / rated motor		3.1			3.1	
Starting / rated motor torque :		2.4			2.4	
		4/4	3/4	2/4	4/4	3/4 2/4
Efficiency %		89.3 %	89.7 %	89.2 %	91.0 %	91.3 % 90.6 %
Power factor :		0.84	0.77	0.68	0.85	0.85 0.70
Efficiency class :		IE1			IE1	
no value						
No						

Mechanical data :		
Sound pressure level 50 Hz/60Hz (load) :		
65.0(A) 71.0(A)		
Moment of inertia :		
0.10 kg m ²		
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

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

General data :	
Frame size :	180 M
Type of construction :	(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 mm ²
Cable diameter from ... to ... :	19.0mm - 28.0mm
Cable entry :	2xM40x1,5
Cable gland null	2 plugs

Special design :	
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