

Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : 1LG4223-2AA61

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 :		45.00 kW			51.00 kW /	
Rated motor speed :		2960 1/min			3560 1/min	
Rated motor torque :		145.2 Nm			136.8 Nm	
Rated motor current (IE) :		VD	VY	VD	VY	
		80.0 A	46.4 A	78.0 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
Efficiency %		91.7 %	92.0 %	91.6 %	92.4 %	91.7 %
Power factor :		0.88	0.85	0.78	0.89	0.89
Efficiency class :		IE1			IE1	
no value						
No						

Mechanical data :		
Sound pressure level 50Hz/60Hz (load) :	73.0(A)	77.0(A)
Moment of inertia :	0.22 kg m²	
Bearing DE :	6213 ZC3	
Bearing NDE :	6213 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 :	225 M
Type of construction :	(1) IM B5 / V1 without canopy
Weight in kg, without optional accessories :	285.00 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 431
Contact screw thread :	M8
Max. cross-sectional area :	35.00 mm ²
Cable diameter from ... to ... :	27.0mm - 35.0mm
Cable entry :	2xM50x1,5
Cable gland null	2 plugs

Special design :	
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