

Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : 1LG4280-6AA60

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			54.00 kW /	
Rated motor speed :		985 1/min			1185 1/min	
Rated motor torque :		436.3 Nm			435.2 Nm	
Rated motor current (IE) :		VD	VY		VD	VY
		84.0 A	48.7 A		87.0 A	
Starting / rated motor current :		6.1			6.1	
Breakdown / rated motor		2.4			2.3	
Starting / rated motor torque :		2.4			2.4	
		4/4	3/4	2/4	4/4	3/4
Efficiency %		91.4 %	92.1 %	92.0 %	92.1 %	92.7 %
Power factor :		0.85	0.81	0.72	0.85	0.85
Efficiency class :		IE1			IE1	
no value						
No						

Mechanical data :		
Sound pressure level 50Hz/60Hz (load) :		
61.0(A)		
Moment of inertia :		
1.10 kg m ²		
Bearing DE :		
6317 C3		
Bearing NDE :		
6317 C3		
Type of bearing :		
Locating bearing NDE (standard)		
Condensate drainage holes :		
Yes		
Regreasing device :		
Yes (standard)		
Lubricants :		
Esso Unirex N3		
Grease lifetime/Relubrication interval :		
8000 h		
Quantity of grease for relubrication :		
30.0 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

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

General data :	
Frame size :	280 S
Type of construction :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	475.00 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 :	Cast iron
Type of terminal box :	gt 520
Contact screw thread :	M10
Max. cross-sectional area :	120.00 mm ²
Cable diameter from ... to ... :	34.0mm - 42.0mm
Cable entry :	2xM63x1,5
Cable gland null	2 plugs

Special design :	
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