



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4220-4AA10-Z
A60+D22+K40+K45+Y54

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 :		37.00 kW			42.50 kW /		
Rated speed :		1475 1/min			1775 1/min		
Rated torque :		239.6 Nm			228.7 Nm		
Rated current (IE) :		VD	VY		VD	VY	
		120.0 A	69.0 A			67.0 A	
Starting / rated current :		6.7			6.8		
Breakdown / rated torque :		3.1			3.1		
Starting / rated torque :		2.3			2.5		
		4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %		91.2 %	91.6 %	91.0 %	93.0 %	93.2 %	92.6 %
Power factor :		0.85	0.82	0.72	0.86	0.86	0.73
Efficiency class :		IE1			IE1		
					no value		
		No					

Mechanical data :		
Sound pressure level 50Hz/60Hz (load) :	66.0(A)	70.0(A)
Moment of inertia :	0.37 kg m²	
Bearing DE :	6213 C3	
Bearing NDE :	6213 C3	
Type of bearing :	Locating bearing NDE (standard)	
Condensate drainage holes :	Yes	
Regreasing device :	Yes	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :	8000 h	
Quantity of grease for relubrication :	20.0 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 :	225 S
Design of electrical machine :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	265.00 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 mm²
Cable diameter from ... to ... :	27.0mm - 35.0mm
Cable entry :	2xM50x1,5-1xM20x1,5
Cable gland null	3 plugs

Special design :	
A60	3x PT100 resistance thermometers integrated in the stator winding
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)
K40	Regreasing system
K45	Anti-condensation heating, 230V
Y54	