



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4280-4AA60-Z
A11+D22+K09+K20+Y54+Y82

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 :		75.00 kW			86.00 kW /	
Rated speed :		1485 1/min			1785 1/min	
Rated torque :		482.3 Nm			460.1 Nm	
Rated current (IE) :		VD	VY		VD	VY
		137.0 A	79.4 A		135.0 A	
Starting / rated current :		7.1			7.1	
Breakdown / rated torque :		3.0			3.0	
Starting / rated torque :		2.5			2.5	
		4/4	3/4	2/4	4/4	3/4 2/4
Efficiency %		92.7 %	92.6 %	91.6 %	93.2 %	93.0 % 92.0 %
Power factor :		0.85	0.81	0.71	0.86	0.86 0.73
Efficiency class :		IE1			IE1	
no value						
No						

Mechanical data :	
Sound pressure level 50Hz/60Hz (load) :	
	70.0(A) 73.0(A)
Moment of inertia :	
	1.20 kg m²
Bearing DE :	
	NU317 E
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

General data :	
Frame size :	
	280 S
Design of electrical machine :	
	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	
	535.00 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 mm²
Cable diameter from ... to ... :	
	34.0mm - 42.0mm
Cable entry :	
	2xM63x1,5-2xM20x1,5
Cable gland null	
	4 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)
K09	Terminal box mounted on the right side
K20	Bearing design for increased cantilever forces
Y54	
Y82	