



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4283-4AA66-Z
A23+G17+H70+K20+L27

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 :			90.00 kW		104.00 kW /	
Rated speed :			1485 1/min		1785 1/min	
Rated torque :			578.8 Nm		556.4 Nm	
Rated current (IE) :			VD	VY	VD	VY
			162.0 A	93.9 A	162.0 A	
Starting / rated current :			7.4		7.4	
Breakdown / rated torque :			3.0		3.0	
Starting / rated torque :			2.5		2.5	
			4/4	3/4	2/4	4/4
Efficiency %			93.0 %	92.9 %	92.0 %	93.5 %
						93.4 %
						92.4 %
Power factor :			0.86	0.82	0.73	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 :	
	1.40 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 M
Design of electrical machine :	
	(6) B35
Weight in kg, without optional accessories :	
	580.00 kg
Frame material :	
	Cast iron
Degree of protection :	
	IP 55
Method of cooling, TEFC :	
	IC 416
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 :	
A23	Motor temperature sensing with integrated KTY 84-130 temperature sensor
G17	Mounting a separately-driven (external) fan
H70	Mounted rotary pulse encoder LL 861 900 220
K20	Bearing design for increased cantilever forces
L27	Insulated bearing cartridge