



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LG4186-4AA61-Z
A23+D22+H61+K20

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 :		22.00 kW			25.30 kW /	
Rated speed :		1465 1/min			1765 1/min	
Rated torque :		143.4 Nm			136.9 Nm	
Rated current (IE) :		VD	VY		VD	VY
		42.0 A	24.4 A		41.0 A	
Starting / rated current :		6.9			6.9	
Breakdown / rated torque :		3.2			3.3	
Starting / rated torque :		2.5			2.5	
Efficiency %	4/4	3/4	2/4	4/4	3/4	2/4
	89.9 %	90.4 %	90.0 %	91.0 %	91.4 %	90.9 %
Power factor :		0.84	0.78	0.68	0.85	0.85 0.70
Efficiency class :		IE1			IE1	
no value						
No						

Mechanical data :	
Sound pressure level 50Hz/60Hz (load) :	
	65.0(A) 71.0(A)
Moment of inertia :	
	0.12 kg m²
Bearing DE :	
	NU210 E
Bearing NDE :	
	6210 C3
Type of bearing :	
	Locating bearing NDE (standard)
Condensate drainage holes :	
	Yes
Regreasing device :	
	No
Lubricants :	
	Esso Unirex N3
Grease lifetime/Relubrication interval :	
	20000 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

General data :	
Frame size :	180 L
Design of electrical machine :	(1) IM B5 / V1 without canopy
Weight in kg, without optional accessories :	155.00 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 :	Aluminum
Type of terminal box :	gk 330
Contact screw thread :	M5
Max. cross-sectional area :	16.00 mm²
Cable diameter from ... to ... :	19.0mm - 28.0mm
Cable entry :	2xM40x1,5-2xM20x1,5
Cable gland null	3 plugs

Special design :	
A23	Motor temperature sensing with integrated KTY 84-130 temperature sensor
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)
H61	Mounted separately-driven fan and rotary pulse encoder 1XP8 001-1
K20	Bearing design for increased cantilever forces