



Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LA5223-2AA90-Z
A11+D22+K20+K40+L1L

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Electrical data:

Rated voltage :		380 VD/660 VY, 50 Hz					
Frequency :	50 Hz			60 Hz			
Rated power :	45.00 kW			51.00 kW			
Rated speed :	2960 1/ min			3560 1/ min			
Rated torque :	145.2 Nm			136.8 Nm			
Rated current (IE) :	VD	VY		VD			
	84.21 A	48.48 A		80.50 A			
Starting / rated current :	7.7			7.7			
Breakdown / rated torque :	3.4			3.4			
Starting / rated torque :	2.8			2.8			
	4/4	3/4	2/4	4/4	3/4	2/4	
Efficiency %	91.7%	91.7%	90.7%	92.4%	92.4%	91.4%	
Power factor :	0.89	0.86	0.80	0.90	0.88	0.83	
Efficiency class :	IE1			IE1			

Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	71 dB(A)	75 dB(A)
Moment of inertia :	0.20 kg*m²	
Bearing DE :	6313 ZC3	
Bearing NDE :	6212 ZC3	
Type of bearing :	Locating bearing NDE (standard)	
Condensate drainage holes :		
Regreasing device :	Yes	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :	8000 h	
Quantity of grease for relubrication :	15.0 g	
External earthing terminal :	No	
Coating :	Special paint finish RAL 7030 stone gray	

Environmental conditions:

Ambient temperature :	-20 °C - +40 °C
Altitude above sea level :	1000 m
Standards and specifications :	IEC, DIN, ISO, VDE, EN

General data:

Frame size	225 M
Design of electrical machine :	(0) IM B3 / B6 / B7 / B8 / V5 without canopy
Weight in kg, without optional accessories :	209.00 kg
Frame material :	Aluminum
Degree of protection :	IP 55
Method of cooling, TEFC :	IC 411
Vibration class :	A (Standard)
Insulation :	155(F) to 130(B)
Duty type :	S1 - continuous duty
Direction of rotation :	Bi-directional

Terminal box:

Material of terminal box :	
Type of terminal box :	gk 431
Contact screw thread :	

Max. cross-sectional area :	
Cable diameter from ... to ... :	
Cable entry :	
Cable gland :	

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)
K20	Bearing design for increased cantilever forces
K40	Regreasing system
L1L	380 VD/660 VY at 50 Hz