

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : 1LA7083-2AA13-Z
C13+D22+D31+L99

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 :	1.10 kW		1.30 kW			
Rated speed :	2845 1/ min		3445 1/ min			
Rated torque :	3.7 Nm		3.6 Nm			
Rated current (IE) :	VD	VY		VY		
	4.26 A	2.45 A		2.30 A		
Starting / rated current :	6.1		6.5			
Breakdown / rated torque :	2.7		2.7			
Starting / rated torque :	2.6		2.6			
	4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %	75.0%	75.0%	72.0%	78.5%	79.0%	76.5%
Power factor :	0.87	0.84	0.76	0.88	0.85	0.78
Efficiency class :	IE1		IE1			

Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	56 dB(A)	60 dB(A)
Moment of inertia :	0.001 kg*m²	
Bearing DE :	6004 2ZC3	
Bearing NDE :	6004 2ZC3	
Type of bearing :	Floating bearings pre-loaded DE (standard)	
Condensate drainage holes :	No	
Regreasing device :	No	
Lubricants :	Esso Unirex N3	
Grease lifetime/Relubrication interval :		
Quantity of grease for relubrication :	null g	
External earthing terminal :	No	
Coating :	Special paint finish RAL 7030 stone gray	

Environmental conditions:

Ambient temperature :	-20 °C - +55 °C
Altitude above sea level :	1000 m
Standards and specifications :	IEC, DIN, ISO, EN, UL

General data:

Frame size	080 M
Design of electrical machine :	(3) IM B14 / V18 / V19, special flange
Weight in kg, without optional accessories :	11.00 kg
Frame material :	Aluminum
Degree of protection :	IP 55
Method of cooling, TEFC :	IC 411
Vibration class :	A (Standard)
Insulation :	155(F) to 155(F)
Duty type :	S1 - continuous duty
Direction of rotation :	Bi-directional

Terminal box:

Material of terminal box :	Aluminum
Type of terminal box :	gk 030
Contact screw thread :	M4
Max. cross-sectional area :	1.50 mm²
Cable diameter from ... to ... :	9.00 mm - 17.00 mm
Cable entry :	1xM25x1,5-1xM16x1,5
Cable gland :	2 plugs

Special design:

C13	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)
D31	Version according to UL with "Recognition Mark"
L99	Lattice pallet packaging