SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

MLFB-Ordering data : **1LA7090-4AA91-Z**
A11+C13+D22+D31+L1U+L99

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

Item no. :
Consignment no. :
Project :

Electrical data:

Rated voltage :	400 VD, 50 Hz, 460 VD, 60 Hz					
Frequency :	50 Hz			60 Hz		
Rated power :	1.10 kW			1.30 kW		
Rated speed :	1415 1/ min			1715 1/ min		
Rated torque :	7.4 Nm			7.2 Nm		
Rated current (IE) :	VD 2.60 A			VD 2.45 A		
Starting / rated current :	4.6			5.0		
Breakdown / rated torque :	2.4			2.4		
Starting / rated torque :	2.3			2.3		
	4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %	75.0%	75.0%	72.0%	79.0%	79.5%	77.0%
Power factor :	0.81	0.76	0.66	0.82	0.77	0.67
Efficiency class :	IE1			IE1		

Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	48 dB(A)	52 dB(A)
Moment of inertia :	0.0024 kg*m²	
Bearing DE :	6205 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	090 S
Design of electrical machine :	(1) IM B5 / V1 without canopy
Weight in kg, without optional accessories :	13.00 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:

A11	PTC thermistor motor protection using 3 integrated temperature sensors for shutdown
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"
L1U	400 VD, 50 Hz, 460 VD, 60Hz
L99	Lattice pallet packaging