

Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : 1LA7090-2AA13

without (standard)

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data:

Rated motor voltage :	(1) 230 VD/400 VY, 50 Hz, 460 VY, 60 Hz					
Frequency :	50 Hz		60 Hz			
Rated power :	1.50 kW		1.75 kW			
Rated motor speed :	2860 1/ min		3460 1/ min			
Rated motor torque :	5.0 Nm		4.8 Nm			
Rated motor current (IE) :	VD	VY		VY		
	5.74 A	3.30 A		3.25 A		
Starting / rated motor current :	5.5		6.0			
Breakdown / rated motor	2.7		2.7			
Starting / rated motor torque :	2.4		2.4			
	4/4	3/4	2/4	4/4	3/4	2/4
Efficiency %	77.2%	77.7%	74.2%	78.5%	79.0%	78.2%
Power factor :	0.85	0.81	0.73	0.86	0.83	0.75
Efficiency class :	IE1		-/-			

Mechanical data:

Sound pressure level 50Hz/60Hz (load) :	60 dB(A)	64 dB(A)
Moment of inertia :	0.0014 kg*m ²	
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 :	40000 h	
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 - +40 °C
Altitude above sea level :	1000 m
Standards and specifications :	IEC, DIN, ISO, VDE, EN

General data:

Frame size	090 S
Type of construction :	(3) IM B14 / V18 / V19, special flange
Weight in kg, without optional accessories :	12.90 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 :	Aluminum
Type of terminal box :	gk 030
Contact screw thread :	M4
Max. cross-sectional area :	1.50 mm ²
Cable diameter from ... to ... :	9.00 mm - 17.00 mm
Cable entry :	1xM25x1,5-1xM16x1,5
Cable gland :	2 plugs

Special design: