

Data sheet for three-phase Squirrel-Cage-Motors



Ordering data : 1LA7090-4AA12

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 :	1.10 kW		1.30 kW			
Rated motor speed :	1415 1/ min		1715 1/ min			
Rated motor torque :	7.4 Nm		7.2 Nm			
Rated motor current (IE) :	VD	VY		VY		
	4.52 A	2.60 A		2.45 A		
Starting / rated motor current :	4.6		5.0			
Breakdown / rated motor	2.4		2.4			
Starting / rated motor 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 50 Hz/60Hz (load) :	48 dB(A)	52 dB(A)
Moment of inertia :	0.0024 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	

Explosion protection:

Type of protection : without (standard)

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 :	(2) IM B14 / V18 / V19, standard flange
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 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: