

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: 7CV2094B SIMOTICS SD - 90L - IM B3 - 4 p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4					
Motordaten / Motor Data																			
415	Y	50	1.50	-/-	3.30	1433	1.0	10.0	82.8	82.8	80.2	0.76	0.68	0.55	6.0	2.8	3.1	IE2	
IM B3 / IM 1001			FS 90L		24 kg		SF:1		IS 12615 / IEC 60034-1			-							
Environmental conditions : -20 °C - +50 °C / 1,000 m										Locked rotor time (hot / cold) : 11 s 16 s									

Mechanical data

Sound pressure level 50Hz 60Hz	62 dB(A)	65 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	0.0033 kg m ² 0.0132 kgf.m ²		Vibration severity grade	A (Standard)
Bearing DE NDE	6205 2ZC3	6204 2ZC3	Insulation	155(F) utilized to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	20,000 h	16,000 h	Direction of rotation	Bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	50,000 h	40,000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE		Forced ventilation motor details	- / -
Relubrication interval/quantity DE NDE	-/- g -/- g -/- h		Net weight of the motor (IM B3)	24 kg
Type of construction	IM B3 / IM 1001		Rotor weight	5 kg
Degree of protection	IP55		Data of anti condensation heating	-/- V, -/- W
Lubricants	Esso Unirex N3		Coating (paint finish)	Standard paint finish
Regreasing device	- / -		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	(A) without
Condensate drainage holes	No		Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Material of terminal box	Aluminium	Cable entry	1xM16x1.5+1xM25x1.5
Type of terminal box	TB7 D04	Cable gland	2 Plugs
Contact screw thread	M4		
Max. cross-sectional area	6 mm ²		

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

3) Efficiency value is valid only for sinusoidal line supply operation.

1) L_{10mh} according to DIN ISO 281 10/2010

Responsible department IN LVM	Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	Document type Datasheet			Document status Released			
	MLFB and Order Code 1LE7501-0EB42-3AA4			Document number			
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