

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



Motor type : 1CV3094C

SIMOTICS SD - 90 L - IM B3 - 6p

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	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	1.10	-/-	2.95	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3
690	Y	50	1.10	-/-	1.72	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3
460	Δ	60	1.27	-/-	3.20	1150	10.5	75.0	75.3	73.6	0.66	0.58	0.45	5.3	2.7	3.2	IE1
460	Δ	60	1.10	-/-	2.95	1155	9.1	75.0	74.6	72.1	0.62	0.53	0.41	5.8	3.2	3.7	IE1
IM B3 / IM 1001		FS 90 L		32 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - + °C / 1,000 m

Locked rotor time (hot / cold) : 32.7 s | 41.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	43.0 / 55.0 dB(A) ²⁾	46.0 / 58.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0052 kg m ²		Vibration severity grade	A
Bearing DE NDE	6205 2Z C3	6204 2Z C3	Insulation	155(F) to 155(F)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
	document type			document status		customer	
	datasheet			released			
		title			document number		
	1LE1503-0EC43-4AA4-Z						
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Special design

F76	Metal external fan	S02	Special paint finish C3
N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature		

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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