

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



Motor type : 1CE3094A SIMOTICS XP - 90 L - IM B3 - 2p

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

Remarks

Electrical data II 2G Ex eb IIC T1-T3 Gb -/-

Tc	U	Δ / Y	f	P	I	n	M	t _E -time (s)		η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
	[V]		[Hz]	[kW]	[A]	[1/min]	[Nm]	T1/T2	T3	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N		
T1/ T2	230	Δ	50	1.85	6.40	2890	6.1	0		85.1	86.0	85.9	0.92	0.89	0.81	7.8	2.7	3.2	IE3	
	400	Y	50	1.85	3.70	2890	6.1	0		85.1	86.0	85.9	0.92	0.89	0.81	7.8	2.7	3.2	IE3	
T3	230	Δ	50	1.85	6.40	2890	6.1	8	7	85.1	86.0	85.9	0.92	0.89	0.81	7.8	2.7	3.2	IE3	
	400	Y	50	1.85	3.70	2890	6.1	8	7	85.1	86.0	85.9	0.92	0.89	0.81	7.8	2.7	3.2	IE3	
IM B3 / IM 1001					FS 90 L				IP55			IEC/EN 60034								
Environmental conditions : -20 °C - +40 °C / 1,000 m																				

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ^{2) 3)}	69 / 81 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0031 kg m ²		Thermal class	F
Bearing DE NDE	6205 2Z C3	6204 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	33 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	1xM25x1,5
Contact screw thread	M4		

Notes: I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/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.		Link documents		
IN LVM		SPC						
SIEMENS	document type	datasheet			document status			
					released			
	title	1MB1543-0EA42-2AA4-Z			document number			
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B02	Acceptance test certificate 3.1 acc. to EN 10204	Y53	Paint finish in other standard RAL colours
H03	Condensation drain holes in end shield	Y84	Additional data on the rating plate and on the packing label :

Notes:

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