

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



Motor type : 1CD3094B SIMOTICS XP - 90 L - IM V6 - 4p

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

Remarks

Electrical data II 2G Ex db eb IIC T4 Gb
-/-

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	
DOL duty (S1) - 155(F) to 130(B)																	
220	Δ	50	1.50	-/-	5.80	1445	9.9	85.3	86.0	85.2	0.80	0.73	0.60	7.3	2.9	3.5	IE3
380	Y	50	1.50	-/-	3.35	1445	9.9	85.3	86.0	85.2	0.80	0.73	0.60	7.3	2.9	3.5	IE3
440	Y	60	1.50	-/-	2.95	1755	8.2	86.5	86.2	84.5	0.77	0.69	0.57	8.6	3.4	4.3	IE3
IM V6 / IM 1031			FS 90 L			IP55		IEC/EN 60034								Grade 3	
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 17.6 s 21.5 s								

Mechanical data			
Sound level (SPL / SWL) at 50Hz 60Hz	55 / 63 dB(A) ^{2) 3)}	58 / 66 dB(A) ^{2) 3)}	Thermal class
Moment of inertia	0.0050 kg m ²		Duty type
Bearing DE NDE	6205 2Z C3	6205 2Z C3	Direction of rotation
bearing lifetime			Frame material
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Net weight of the motor
Regreasing device	Without		Motor weight incl. options
Grease nipple	-/-		Coating (paint finish)
Type of bearing	Locating bearing DE		Color, paint shade
Condensate drainage holes	Without		Motor protection
External earthing terminal	With (standard)		Method of cooling
Vibration severity grade	A		

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	-/-
Contact screw thread	M4		

Notes:

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

1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power / at full load
3) Value is valid only for DOL operation with motor design IC411

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			
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