

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



Motor type : 1CD3164A

SIMOTICS XP - 160 L - IM B5 - 2p

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

Electrical data

II 2G Ex db eb IIB 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)																	
400	Δ	50	18.50	-/-	32.00	2955	60.0	92.4	92.8	92.3	0.90	0.87	0.80	8.3	2.8	3.9	IE3
690	Y	50	18.50	-/-	18.60	2955	60.0	92.4	92.8	92.3	0.90	0.87	0.80	8.3	2.8	3.9	IE3
460	Δ	60	18.50	-/-	28.00	3560	49.5	91.7	91.5	90.3	0.90	0.87	0.79	9.4	3.1	4.4	IE3
Converter duty (S9) - 155(F) to 130(B)																	
40	Δ	5	1.04		21	275	36.3				0.88	Type of converter	Voltage source converter, general.				
200	Δ	25	7.9		28.5	1460	51.9				0.89						
400	Δ	50	17.2		30	2960	55.4				0.89						
400	Δ	80	17.2		29	4735	34.7				0.91						
IM B5 / IM 3001			FS 160 L				IP55			IEC/EN 60034							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 16.8 s 25.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ^{2) 3)}	77 / 89 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0637 kg m ²		Duty type	S1
Bearing DE NDE	6309 C3	6309 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	192 kg
Regreasing device	Without		Motor weight incl. options	192 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J21	Cable entry	-/-
Contact screw thread	M5		

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 _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	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
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Special design

B43 Version for converter operation with operating data on voltage-source DC link converter H00 Canopy

Notes:

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