

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



Motor type : 1CD3164B SIMOTICS XP - 160 L - IM V1 - 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)																	
400	Δ	50	15.00	-/-	28.50	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
690	Y	50	15.00	-/-	16.60	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
460	Δ	60	15.00	-/-	25.00	1780	80.0	93.0	92.8	91.4	0.81	0.75	0.64	9.5	2.9	4.3	IE3
IM V1 / IM 3011				FS 160 L				IP56			IEC/EN 60034						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 16.7 s 24.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 72 dB(A) ^{2) 3)}	69 / 81 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0877 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⁾	20000 h	16000 h	Net weight of the motor	193 kg
Regreasing device	Without		Motor weight incl. options	194 kg
Grease nipple	-/-		Coating (paint finish)	No paint finish, however with primer
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
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					
	document type				document status		
	datasheet				released		
	title				document number		
	1MB1553-1DB43-4GB4-Z						
© INNOMOTICS 2023	B02+H00+H22+S01				rev.	creation date	language
					951	2023-12-14	en
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H22	IP 56 degree of protection
H00	Canopy	S01	No paint finish, however with primer

Notes:

responsible dep. 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	
	document type datasheet			document status released		
	title 1MB1553-1DB43-4GB4-Z			document number		
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