

SIMOTICS XP - 160 M - IM B5 - 2p

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

Remarks

II 2G Ex db eb IIB T4 Gb

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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	-/-	27.00	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
690	Υ	50	15.00	-/-	15.70	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
460	Δ	60	15.00	-/-	24.00	3565	40.0	91.0	90.5	88.9	0.86	0.81	0.72	9.7	3.1	4.8	IE3

Converter duty (S9) - 155(F) to 130(B)

40	Δ	5	0.85		18.4	275	29.4		0.84	Type of converter	Voltage source converter, general.
200	Δ	25	6.4		24	1465	42		0.85		
400	Δ	50	13.9		25.5	2965	44.9		0.86		
400	Δ	80	13.9		24	4740	28		0.87		

IM B5 / IM 3001

FS 160 M

IP55

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Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 17.4 s | 24.7 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	0.0532 kg m²		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	181 kg
Regreasing device	Without		Motor weight incl. options	182 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 mm²
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_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque

1) L10mh 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	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
	1MB1563-1DA33-4FB4-Z						
	B43+H00			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CD3163A

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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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© Siemens AG 2023				rev. 943	creation date 2023-06-27
				language en	Page 2/2

