

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



Motor type : 1CD3163A

SIMOTICS XP - 160 M - IM B3 - 2p

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

Remarks

II 2G Ex db eb IIC T4 Gb

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								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)																	
380	Δ	50	15.00	-/-	28.50	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
660	Y	50	15.00	-/-	16.40	2960	48.5	91.9	91.9	91.0	0.87	0.82	0.73	8.8	2.8	4.3	IE3
440	Δ	60	15.00	-/-	25.00	3565	40.0	91.0	90.5	88.9	0.86	0.81	0.72	9.7	3.1	4.8	IE3
IM B3 / IM 1001		FS 160 M			IP55		IEC/EN 60034						Grade 3				

Environmental conditions : -20 °C - +40 °C / 1,000 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 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Net weight of the motor	179 kg
Regreasing device	Without		Motor weight incl. options	179 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish C3
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. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	document type datasheet	document status released			
	title 1MB1553-1DA33-3AB4-Z B02+C02+D32+D34	document number			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	D32	Ex certification for China
C02	VIK version	D34	China Energy Efficiency Label

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