

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



Motor type : 1CV3162C

SIMOTICS SD - 160 M - IM B5 - 6p

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

Remarks

Electrical data

Safe Area

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	
400	Δ	50	7.50	-/-	15.00	985	73.0	89.1	89.5	88.6	0.81	0.76	0.65	7.9	2.3	3.2	IE3
460	Δ	60	8.60	-/-	14.50	1185	69.0	91.0	91.3	90.2	0.82	0.77	0.67	8.3	2.3	3.3	IE3
460	Δ	60	7.50	10.00	12.90	1185	60.0	91.0	90.8	89.4	0.80	0.74	0.63	9.3	2.7	3.7	MG1
IM B5 / IM 3001			FS 160 M				IP55	CC032A		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: J		
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 19.6 s 25 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 79 dB(A) ²⁾	75 / 79 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.1320 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	124 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	right	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 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

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 _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	G11	Rotary pulse encoder Sendix 5020 (HTL)
F70	Mounting of separately driven fan	Y82	Auxiliary name plate with customer data

Additional information:

Notes:

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