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

Motor type : 1CV3162A　　　　　**SIMOTICS SD - 160 M - IM B5 - 2p**

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

Remarks

Safe Area

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η [3] 4/4	3/4	2/4	cosφ [3] 4/4	3/4	2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
							DOL duty (S1) - 155(F) to 130(B)										
500	Δ	50	11.00	-/-	15.60	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
575	Δ	60	12.60	-/-	15.40	3540	34.0	91.0	90.9	89.5	0.90	0.87	0.81	8.4	2.5	3.5	IE3
575	Δ	60	11.00	-/-	13.80	3555	29.5	91.0	90.4	88.4	0.88	0.85	0.77	9.5	2.9	4.0	IE3

IM B5 / IM 3001		FS 160 M		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

Environmental conditions : -20 ℃ - +40 ℃ / 1000 m	Locked rotor time (hot / cold) : 21.3 s | 29.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	77 / 85 dB(A) [2] [3]　　82 / 90 dB(A) [2] [3]	External earthing terminal	Without
Moment of inertia	0.0370 kg m²	Vibration severity grade	A
Bearing DE | NDE	6309 Z C3　　　　6309 Z C3	Thermal class	F
bearing lifetime		Duty type	S1
L_{10mh} $F_{Rad\,min}$ for coupling operation 50|60Hz [1]	40000 h　　　　32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE | NDE	10 g | 10 g 8000 h	Frame material	cast iron
Lubricants	Unirex N3	Net weight of the motor (IM B3)	97 kg
Regreasing device	With (standard)	Coating (paint finish)	Special paint finish C3
Grease nipple	M8x1 DIN 71412	Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE	Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)	Method of cooling	IC411 - self ventilated, surface cooled

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 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

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) 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 department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents

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Branding disclaimer applies

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Special design

| D47 | TR CU product safety certificate EAC for the Eurasian Customs Union | F76 | Metal external fan |

Responsible department	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	Created automatically		

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