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

Motor type : 1CV3164D **SIMOTICS SD - 160 L - IM B3 - 8p**

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	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 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)																	
400	Δ	50	7.50	-/-	16.90	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3
690	Y	50	7.50	-/-	9.80	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3

IM B3 / IM 1001		FS 160 L		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 24.8 s | 40 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65 / 78 dB(A) 2) 3)	66 / 79 dB(A) 2) 3)
Moment of inertia	0.1300 kg m²	
Bearing DE | NDE	6309 Z C3	6309 Z C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Relubrication interval/quantity DE | NDE	10 g | 10 g 8000 h	
Lubricants	Unirex N3	
Regreasing device	With (standard)	
Grease nipple	M8x1 DIN 71412	
Type of bearing	Locating bearing NDE	
Condensate drainage holes	With (standard)	

External earthing terminal	Without
Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	117 kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
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

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
IN LVM		SPC			

SIEMENS

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