

SIMOTICS SD - 160 L - IM B3 - 2p

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

Remarks

Safe Area

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_A/I_N	T_A/T_N	T_B/T_N	
500	Δ	50	18.50	-/-	25.50	2955	60.0	92.4	92.8	92.4	0.90	0.87	0.80	9.0	2.8	4.2	IE3
575	Δ	60	21.30	-/-	25.50	3555	57.0	91.7	91.5	90.3	0.91	0.88	0.80	9.0	2.6	4.2	IE3
575	Δ	60	18.50	-/-	23.00	3560	49.5	91.7	91.5	90.3	0.89	0.86	0.78	10.2	3.0	4.8	IE3
IM B3 / IM 1001			FS 160 L		127 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

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

Locked rotor time (hot / cold) : 13.3 s | 19.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz/60Hz	70.0 / 82.0 dB(A) ²⁾	77.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0680 kg m ²		Vibration severity grade	A
Bearing DE NDE	6309 Z C3	6209 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50/60Hz ¹⁾ for coupling operation	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		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M8x1 DIN 71412		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 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.			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3164A

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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	L23	Regreasing system
L22	Bearing design for increased cantilever forces	S02	Special paint finish C3

Notes:

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