

SIMOTICS SD - 160 M - IM V1 - 4p

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_I/T_N	T_B/T_N	

DOL duty (S1) - 180(H) to 180(H)

IM V1 / IM 3011		FS 160 M		IP65	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
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Locked rotor time (hot / cold) : 26.5 s | 34.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) ^{2) 3)}	70 / 75 dB(A) ^{2) 3)}	External earthing terminal	Without
Moment of inertia	0.0583 kg m²		Vibration severity grade	A
Bearing DE NDE	6309 Z C3	6309 Z C3	Thermal class	H
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad,min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	10 g 10 g h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	105 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	IC416 - separately 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					
	document type			document status			
	datasheet			released			
	title			document number			
	1LE1603-1DB29-0GB4-Z						
	B02+F70+G04+H00+H20+M1Y+N11+Y82			rev.	creation date	language	Page
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B02	Acceptance test certificate 3.1 acc. to EN 10204	H20	IP 65 degree of protection
F70	Mounting of separately driven fan	M1Y	Non-standard winding:
G04	Mounted rotary pulse encoder LL 861 900 220	N11	Temperature class 180(H), and coolant temperature max. 60°C
H00	Canopy	Y82	Auxiliary name plate with customer data

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