

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	$\eta^{3)}$			$\cos\phi^{3)}$			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	

DOL duty (S1) - 155(F) to 130(B)

IM B5 / IM 3001		FS 160 M		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN				
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 13 s | 17.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 79 dB(A) ^{2) 3)}	70 / 82 dB(A) ^{2) 3)}	External earthing terminal	No
Moment of inertia	0.1320 kg m ²		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)	124 kg
Regreasing device	Yes (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	(K) 1 Pt1000 resistance thermometer(2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	left	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	2xM40x1,5-1xM16x1,5
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	
DI MC LVM		DT Configurator					
	document type	datasheet			document status	released	
	title	1LE1603-1DC29-0FK6-Z			document number		
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					929	2022-12-05	en 1/2

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B02	Acceptance test certificate 3.1 acc. to EN 10204	F70	Mounting of separately driven fan
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	G04	Mounted rotary pulse encoder LL 861 900 220
F01	Mounting a brake	M1Y	Non-standard winding:
F11	Brake supply voltage, 230 V AC, 50/60 Hz	R62	Cast iron auxiliary terminal box (small)
F50	Mechanical manual brake release with lever (cannot be locked)		

Brake:

Description:	BFK458-20	Current:	.5 A
Voltage:	AC 230 V	Moment of inertia:	0.007300 kgm ²

Notes:

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