

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



Motor type : 1CV3164B

SIMOTICS SD - 160 L - IM B3 - 4p

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	η ³⁾			cosφ 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 _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 155(F)																	
400	Δ	50	15.00	-/-	28.50	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
690	Y	50	15.00	-/-	16.60	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
460	Δ	60	17.30	-/-	28.50	1775	93.0	92.4	92.5	91.7	0.83	0.78	0.68	8.5	2.5	3.7	IE2
460	Δ	60	15.00	-/-	25.00	1780	80.0	93.0	92.8	91.4	0.81	0.75	0.64	9.5	2.9	4.3	IE3
IM B3 / IM 1001			FS 160 L			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / 1,000 m									Locked rotor time (hot / cold) : 16.4 s 23.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ²⁾	69 / 81 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0850 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 ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz Relubrication interval/quantity DE	10 g 10 g		Frame material	cast iron
NDE Lubricants	Unirex N3		Net weight of the motor (IM B3)	127 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	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	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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					
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Special design

N03 Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature

Notes:

responsible dep.

DI MC LVM

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