

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 130(B)																	
400	Δ	50	13.05	-/-	25.50	1465	85.1	92.4	92.4	91.3	0.80	0.74	0.61	9.1	3.2	3.9	IE3
690	Y	50	13.05	-/-	14.70	1465	85.1	92.4	92.4	91.3	0.80	0.74	0.61	9.1	3.2	3.9	IE3
460	Δ	60	15.05	-/-	25.00	1765	81.4	92.5	92.3	91.5	0.81	0.75	0.64	9.1	3.1	3.8	IE2
460	Δ	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3
IM B3 / IM 1001		FS 160 L				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 24.6 s | 33.3 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ^{2) 3)}	69 / 81 dB(A) ^{2) 3)}	External earthing terminal	No
Moment of inertia	0.0890 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	4000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	133 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	(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
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			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
G05	Mounting a rotary pulse encoder HOG 9 D 1024 I		

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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