

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



Motor type : 1CV3182B

SIMOTICS SD - 180 M - 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	18.50	-/-	35.00	1470	120.0	92.6	93.1	92.9	0.82	0.77	0.68	7.2	2.5	3.3	IE3
690	Y	50	18.50	-/-	20.50	1470	120.0	92.6	93.1	92.9	0.82	0.77	0.68	7.2	2.5	3.3	IE3
460	Δ	60	21.30	-/-	35.00	1770	115.0	92.4	92.8	92.4	0.83	0.79	0.70	7.2	2.4	3.2	IE2
460	Δ	60	18.50	-/-	30.50	1775	100.0	93.6	93.6	92.7	0.81	0.74	0.62	8.7	2.6	3.8	IE3
IM B3 / IM 1001		FS 180 M				IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 28.7 s 41.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 73 dB(A) ^{2) 3)}	68 / 75 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.1300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6310 C3	6310 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	15 g 15 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	165 kg
Regreasing device	With regreasing nipple		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 71412 A		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	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 J61	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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H01	Bolted on mounting feet (instead of cast)	R52	Drilled removable entry plate
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A		

Notes:

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