

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



Motor type : 1CV4184B

SIMOTICS SD - 180 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	
400	Δ	50	22.00	-/-	41.50	1475	142.0	94.5	95.0	94.8	0.81	0.75	0.64	7.7	2.9	3.8	IE4
690	Y	50	22.00	-/-	24.00	1475	142.0	94.5	95.0	94.8	0.81	0.75	0.64	7.7	2.9	3.8	IE4
460	Δ	60	25.30	-/-	41.00	1775	136.0	94.5	94.8	94.6	0.82	0.77	0.67	7.8	2.8	3.7	IE4
460	Δ	60	22.00	-/-	37.00	1778	118.0	94.5	94.6	94.0	0.79	0.73	0.61	8.9	3.1	4.3	IE4

IM B3 / IM 1001		FS 180 L	192 kg	IP55		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) : 34.5 s | 47.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62.0 / 75.0 dB(A) ²⁾	76.0 / 87.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1800 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 210	6210 C3	Insulation	155(F) to 130(B)
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		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(A) without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/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.
DI MC LVM		DT Configurator		

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Special design

L22 Bearing design for increased cantilever forces L23 Regreasing system

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