

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



Motor type : 1CV1184B

SIMOTICS SD - 180 L - IM B5 - 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	
230	Δ	50	22.00	-/-	74.00	1465	143.0	89.9	90.8	90.7	0.83	0.78	0.67	8.0	2.7	3.6	IE1
400	Y	50	22.00	-/-	42.50	1465	143.0	89.9	90.8	90.7	0.83	0.78	0.67	8.0	2.7	3.6	IE1
460	Y	60	25.30	-/-	41.50	1765	137.0	91.0	91.7	91.5	0.84	0.79	0.69	8.2	2.7	3.6	IE1
IM B5 / IM 3001		FS 180 L		170 kg		IP65		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 7.76 s | 14 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63.0 / 76.0 dB(A) ²⁾	66.0 / 79.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	H20	IP 65 degree of protection
H07	Stainless steel screws and bolts (outside the motor)	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air

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.			
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