

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



Motor type : 1CV2184C

SIMOTICS SD - 180 L - IM B3 - 6p

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	15.00	-/-	31.00	975	147.0	89.7	90.1	89.5	0.78	0.71	0.59	6.0	2.5	3.1	IE2
690	Y	50	15.00	-/-	17.90	975	147.0	89.7	90.1	89.5	0.78	0.71	0.59	6.0	2.5	3.1	IE2
460	Δ	60	18.00	-/-	31.00	1170	147.0	91.7	92.2	91.8	0.80	0.74	0.64	6.0	2.4	2.9	IE2
460	Δ	60	15.00	-/-	27.00	1178	122.0	90.2	90.2	89.0	0.77	0.70	0.58	6.9	2.8	3.4	IE2
IM B3 / IM 1001		FS 180 L		155 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 24.4 s | 40.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	57.0 / 70.0 dB(A) ²⁾	60.0 / 73.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1700 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	2xM40x1,5-1xM16x1,5
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.			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	F12	Brake supply voltage 400 V AC, 50/60 Hz
F01	Mounting a brake		

Additional information:

Brake:

Description:	BFK458-20	Current:	A
Voltage:	AC 400 V	Moment of inertia:	Nm

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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