

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



Motor type : 1CV3184B

SIMOTICS SD Premium Insulation - 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	1470	143.0	93.0	93.4	93.1	0.82	0.77	0.67	7.7	2.6	3.3	IE3
690	Y	50	22.00	-/-	24.00	1470	143.0	93.0	93.4	93.1	0.82	0.77	0.67	7.7	2.6	3.3	IE3
460	Δ	60	25.30	-/-	41.00	1770	136.0	93.6	93.6	93.3	0.83	0.78	0.69	7.9	2.4	3.3	IE3
460	Δ	60	22.00	-/-	36.50	1775	118.0	93.6	93.4	92.7	0.81	0.75	0.65	8.9	2.8	3.8	IE3
IM B3 / IM 1001		FS 180 L		178 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1	

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

Locked rotor time (hot / cold) : 19.9 s | 30.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68.0 / 75.0 dB(A) ²⁾	70.0 / 77.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1400 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)	Special paint finish, resistant to salt-laden air C4
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (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	16.0 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.			
DI MC LVM		DT Configurator					
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q02	Anti-condensation heating for 230 V (2 terminals)
F74	Sheet steel fan cowl	S03	Special paint finish in sea air resistant C4

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

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