

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



Motor type : 1CV3184D SIMOTICS SD Premium Insulation - 180 L - IM B3 - 8p

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	11.00	-/-	24.00	725	145.0	88.6	89.5	89.2	0.74	0.69	0.58	5.4	2.1	2.6	IE3
690	Y	50	11.00	-/-	14.00	725	145.0	88.6	89.5	89.2	0.74	0.69	0.58	5.4	2.1	2.6	IE3
460	Δ	60	13.20	-/-	24.50	870	145.0	89.5	90.6	90.4	0.75	0.71	0.61	5.2	1.9	2.4	IE3
460	Δ	60	11.00	-/-	21.50	880	119.0	89.5	89.7	88.8	0.72	0.66	0.55	6.1	2.3	2.9	IE3
IM B3 / IM 1001		FS 180 L				IP55	UKCA	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) : 55.4 s 76.8 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 74 dB(A) ^{2) 3)}	71 / 78 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.2670 kg m ²		Thermal class	F
Bearing DE NDE	6310 2Z C3	6310 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	No		Net weight of the motor (IM B3)	190 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
External earthing terminal	Yes (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 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_K/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						
	document type	datasheet			document status			
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B02	Acceptance test certificate 3.1 acc. to EN 10204	Y82	Auxiliary name plate with customer data
G04	Mounted rotary pulse encoder LL 861 900 220		

Notes:

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