

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



Motor type : 1CV3184C

SIMOTICS XP - 180 L - IM B3 - 6p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data II 2D Ex tb IIIC T 120°C Db
-/-

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	13.80	-/-	28.00	975	135.2	91.4	91.9	91.9	0.78	0.72	0.61	6.4	2.5	3.0	IE3
690	Y	50	13.80	-/-	16.20	975	135.2	91.4	91.9	91.9	0.78	0.72	0.61	6.4	2.5	3.0	IE3
460	Δ	60	16.56	-/-	28.50	1170	135.2	92.0	92.5	92.7	0.79	0.74	0.64	6.3	2.3	2.8	IE2
460	Δ	60	15.00	-/-	26.00	1178	122.0	91.7	92.0	91.4	0.79	0.73	0.61	6.8	2.5	3.0	IE3
IM B3 / IM 1001			FS 180 L			IP65		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +50 °C / 1,000 m									Locked rotor time (hot / cold) : 39.1 s 58.8 s								
These values are calculated. The final rating plate data will be calculated when the order is placed																	
The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.																	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 68 dB(A) ^{2) 3)}	58 / 71 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1900 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 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	Without		Net weight of the motor (IM B3)	180 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish C3
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(H) 3 resistance thermometers PT100 (6 terminals)
External earthing terminal	With (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	2xM40x1,5-2xM16x1,5
Contact screw thread	M5		

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L_{10mh} 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.		Link documents		
IN LVM		SPC						
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Special design

N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced	S02	Special paint finish C3
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Notes:

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