

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



Motor type : 1CE3184B

SIMOTICS XP - 180 L - IM B3 - 4p

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

Remarks

Electrical data II 2G Ex eb IIC T1-T3 Gb -/-

Tc	U	Δ / Y	f	P	I	n	M	t _E -time (s)		η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
	[V]		[Hz]	[kW]	[A]	[1/min]	[Nm]	T1/T2	T3	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
T1/ T2	400	Δ	50	20.00	39.00	1465	130.0	18		92.8	93.9	94.2	0.84	0.80	0.72	6.6	2.0	2.9	IE3
	690	Y	50	20.00	22.50	1465	130.0	18		92.8	93.9	94.2	0.84	0.80	0.72	6.6	2.0	2.9	IE3
T3	400	Δ	50	17.50	34.50	1470	114.0	23	7	92.5	93.0	93.0	0.83	0.78	0.68	7.5	2.3	3.3	IE3
	690	Y	50	17.50	20.00	1470	114.0	23	7	92.5	93.0	93.0	0.83	0.78	0.68	7.5	2.3	3.3	IE3
IM B3 / IM 1001			FS 180 L			IP55		IEC/EN 60034											
Environmental conditions : -20 °C - +40 °C / 1,000 m																			

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 75 dB(A) ^{2) 3)}	70 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1527 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)	178 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
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 J21	Cable entry	2xM40x1,5
Contact screw thread	M5		

Notes: I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_A/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. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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