

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



Motor type : 1CD3184C

SIMOTICS XP - 180 L - IM V1 - 6p

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

Remarks **II 2G Ex db eb IIC T4 Gb**

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								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)																	
380	Δ	50	15.00	-/-	31.00	975	147.0	91.2	91.9	91.9	0.80	0.74	0.64	5.9	2.3	2.8	IE3
660	Y	50	15.00	-/-	18.00	975	147.0	91.2	91.9	91.9	0.80	0.74	0.64	5.9	2.3	2.8	IE3
440	Δ	60	15.00	-/-	27.00	1178	122.0	91.7	92.0	91.4	0.79	0.73	0.61	6.8	2.5	3.0	IE3
IM V1 / IM 3011		FS 180 L		IP55		IEC/EN 60034		Grade 3									
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 39.1 s 58.8 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 68 dB(A) ^{2) 3)}	61 / 68 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.2100 kg m ²		Duty type	S1
Bearing DE NDE	6310 C3	6310 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
$L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Net weight of the motor	236 kg
Regreasing device	Without		Motor weight incl. options	238 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

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	-/-
Contact screw thread	M5		

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

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	D34	China Energy Efficiency Label
D32	Ex certification for China	H00	Canopy

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