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

Motor type : 1CD3182A **SIMOTICS XP - 180 M - IM B3 - 2p**

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

Electrical data

II 2G Ex db eb IIB T4 Gb

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	22.00	-/-	38.50	2950	71.0	92.7	93.0	92.4	0.89	0.86	0.79	7.5	2.3	3.5	IE3
690	Y	50	22.00	-/-	22.50	2950	71.0	92.7	93.0	92.4	0.89	0.86	0.79	7.5	2.3	3.5	IE3
460	Δ	60	22.00	-/-	34.00	3560	59.0	91.7	91.4	90.0	0.89	0.85	0.78	8.2	2.8	3.9	IE3
Converter duty (S9) - 155(F) to 130(B)																	
40	Δ	5	1.22		25	270	43.2				0.88	Type of converter	Voltage source converter, general.				
200	Δ	25	9.4		34	1455	61.8				0.88						
400	Δ	50	20.5		36	2955	66				0.89						
400	Δ	76	20.5		35	4490	43.6				0.90						
IM B3 / IM 1001			FS 180 M			IP55		IEC/EN 60034									

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 23.5 s | 35.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	72 / 80 dB(A) 2) 3)	77 / 89 dB(A) 2) 3)
Moment of inertia	0.0889 kg m²	
Bearing DE | NDE	6310 C3	6310 C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Regreasing device	Without	
Grease nipple	-/-	
Type of bearing	Locating bearing DE	
Condensate drainage holes	Without	
External earthing terminal	With (standard)	
Vibration severity grade	A	

Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	238 kg
Motor weight incl. options	238 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm²
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		

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) L10mh 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
DI MC LVM		DT Configurator			

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Special design

B43	Version for converter operation with operating data on voltage-source DC link converter

Notes:

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