

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

II 2G Ex db eb IIC T4 Gb

Electrical data

-/-

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	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
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)}	Thermal class	F
Moment of inertia	0.0889 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⁾	40000 h	32000 h	Net weight of the motor	238 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	(A) without (Standard)
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_K/M_N = locked rotor torque / torque nominal
M_B/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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