

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



Motor type : 1CD3083B

SIMOTICS XP - 80 M - IM B3 - 4p

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

Remarks

Electrical data	II 2G Ex db eb IIC T4 Gb -/-
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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)																	
380	Δ	50	0.65	-/-	1.71	1455	4.3	82.4	81.3	77.3	0.70	0.61	0.46	8.2	3.1	4.5	IE3
660	Y	50	0.65	-/-	0.98	1455	4.3	82.4	81.3	77.3	0.70	0.61	0.46	8.2	3.1	4.5	IE3
440	Δ	60	0.65	-/-	1.55	1765	3.5	83.0	81.3	75.8	0.66	0.57	0.42	9.5	3.6	5.4	IE3
IM B3 / IM 1001			FS 80 M			IP55		IEC/EN 60034									
Environmental conditions : -40 °C - +55 °C / 1000 m									Locked rotor time (hot / cold) : 16.8 s 20.3 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	62 / 70 dB(A) ^{2) 3)}	55 / 66 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0030 kg m ²		Duty type	S1
Bearing DE NDE	6204 Z C3	6204 Z 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	33 kg
Regreasing device	Without		Motor weight incl. options	33 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish for offshore applications C5
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 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	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	-/-
Contact screw thread	M4		

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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B02	Acceptance test certificate 3.1 acc. to EN 10204	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
D03	Minimum ambient temperature -40°C	Q02	Anti-condensation heating for 230 V (2 terminals)
D35	Ex Certificate EAC for Eurasian Customs Union	S04	Special paint finish for offshore applications C5

Space heaters

Technical data: 1-phase, 230 V 12.5W

Notes:

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