

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



Motor type : 1CD3280A SIMOTICS XP - 280 S - IM B3 - 2p

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

Remarks

Electrical data II 2G Ex db eb IIC T4 Gb
-/-

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	65.25	-/-	113.00	2975	209.5	94.8	94.6	93.8	0.88	0.85	0.78	8.4	2.9	3.5	IE3
690	Y	50	65.25	-/-	66.00	2975	209.5	94.8	94.6	93.8	0.88	0.85	0.78	8.4	2.9	3.5	IE3
460	Δ	60	65.25	-/-	99.00	3580	174.1	93.9	93.2	91.0	0.88	0.85	0.78	9.8	3.3	3.8	IE3
IM B3 / IM 1001			FS 280 S				IP55			IEC/EN 60034							
Environmental conditions : -20 °C - +55 °C / 1,000 m									Locked rotor time (hot / cold) : 26 s 44.9 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	76 / 90 dB(A) ^{2) 3)}	79 / 94 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.8160 kg m ²		Thermal class	F
Bearing DE NDE	6315 C3	6315 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
Relubrication interval/quantity DE NDE	25 g 25 g	2000 h	Net weight of the motor	729 kg
Lubricants	Unirex N3		Motor weight incl. options	729 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	With (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N21	Cable entry	-/-
Contact screw thread	M10		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/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

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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Special design

N07 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced

Notes:

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