

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



Motor type : 1CV3280B

SIMOTICS XP - 280 S - IM V1 - 4p

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

II 3G Ex ec IIC T3 Gc																	
-/-																	
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	75.00	-/-	133.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3
690	Y	50	75.00	-/-	77.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3
460	Δ	60	86.00	-/-	131.00	1785	460.0	94.5	94.7	94.2	0.87	0.85	0.77	6.8	2.5	2.9	IE2
460	Δ	60	75.00	-/-	116.00	1788	400.0	95.4	95.3	94.5	0.85	0.81	0.72	7.7	2.8	3.3	IE3
IM V1 / IM 3011			FS 280 S			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 29.7 s 47.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 83 dB(A) ^{2) 3)}	77 / 91 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.3900 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	570 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 NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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 - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10		

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 _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /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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Special design

H00	Canopy	Q02	Anti-condensation heating for 230 V (2 terminals)
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Additional information:

Space heaters

Technical data:	1-phase, 230 V 109W
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Notes:

Link documents

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