

SIMOTICS XP - 280 S - IM V1 - 4p

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

Remarks

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	60	86.00	-/-	151.00	1784	460.0	95.4	95.4	94.8	0.86	0.83	0.74	7.6	2.6	2.9	IE3
690	Y	60	86.00	-/-	88.00	1784	460.0	95.4	95.4	94.8	0.86	0.83	0.74	7.6	2.6	2.9	IE3
400	Δ	60	75.00	-/-	133.00	1788	400.0	95.4	95.4	94.8	0.85	0.81	0.72	8.5	3.0	3.3	IE3
345	Δ	50	75.00	-/-	154.00	1486	480.0	95.0	95.3	95.1	0.86	0.83	0.74	7.3	2.6	3.0	IE3
IM V1 / IM 3011			FS 280 S			IP55		IEC/EN 60034									

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

Locked rotor time (hot / cold) : 24.7 s | 45.5 s

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 84 dB(A) ^{2) 3)}	77 / 90 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.3700 kg m²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3 INS	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	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	754 kg
Regreasing device	With (standard)		Motor weight incl. options	757 kg
Grease nipple	M10x1 DIN 3404 A		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box position	top	Max. cross-sectional area	120 mm²
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_A/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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
IN LVM		SPC					
	document type			document status			
	datasheet			released			
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H00	Canopy	M1J	400 VD/690 VY, 60-Hz power
L51	Bearing insulation NDE	Q02	Anti-condensation heating for 230 V (2 terminals)

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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	document type datasheet				document status released		
	title 1MB1553-2DB09-0GB4-Z				document number		
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