

SIMOTICS XP - 280 M - IM V1 - 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 [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\varphi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_A/I_N	T_A/T_N	T_B/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	90.00	-/-	152.00	2975	290.0	95.0	95.2	94.8	0.90	0.88	0.82	7.5	2.5	3.1	IE3
690	Y	50	90.00	-/-	88.00	2975	290.0	95.0	95.2	94.8	0.90	0.88	0.82	7.5	2.5	3.1	IE3
460	Δ	60	90.00	-/-	132.00	3580	240.0	95.0	94.8	93.9	0.90	0.87	0.81	8.5	3.0	3.4	IE3
IM V1 / IM 3011			FS 280 M			IP56		IEC/EN 60034									

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

Locked rotor time (hot / cold) : 18.9 s | 39.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	79 / 93 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.9240 kg m²		Thermal class	F
Bearing DE NDE	6315 C3	6315 C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L10mh F _{red min} for coupling operation 50 60Hz	20000 h	16000 h	Frame material	cast iron
Relubrication interval/quantity DE NDE	25 g 25 g 4000 h		Net weight of the motor	735 kg
Lubricants	Unirex N3		Motor weight incl. options	738 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	(B) 3 PTC thermistors - for tripping (2 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 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			
	title			document number			
	1MB1553-2DA23-4GB4-Z						
	B02+H00+H22+Q02			rev.	creation date	language	Page
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B02	Acceptance test certificate 3.1 acc. to EN 10204	H22	IP 56 degree of protection
H00	Canopy	Q02	Anti-condensation heating for 230 V (2 terminals)

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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