

SIMOTICS XP - 90 L - IM V1 - 4p

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

Remarks

-/-

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)																	
230	Δ	50	1.50	-/-	5.50	1445	9.9	85.3	86.0	85.2	0.80	0.73	0.60	7.3	2.9	3.5	IE3
400	Y	50	1.50	-/-	3.15	1445	9.9	85.3	86.0	85.2	0.80	0.73	0.60	7.3	2.9	3.5	IE3
460	Y	60	1.50	-/-	2.85	1755	8.2	86.5	86.2	84.5	0.77	0.69	0.57	8.6	3.4	4.3	IE3
IM V1 / IM 3011			FS 90 L			IP66		IEC/EN 60034									

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 17.6 s | 21.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	55 / 63 dB(A) ^{2) 3)}	58 / 66 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.0050 kg m²		Duty type	S1
Bearing DE NDE	6205 2Z C3	6205 2Z C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Net weight of the motor	44 kg
Regreasing device	Without		Motor weight incl. options	44 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
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 mm²
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
 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			
	1MB1553-0EB42-2GA4-Z						
	H00+H19			rev.	creation date	language	Page
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Special design

H00	Canopy	H19	IP 66 degree of protection
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