

SIMOTICS GP - 90 S - IM B3 - 4p

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

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
220	Δ	50	1.10	-/-	4.55	1425	7.4	81.4	81.8	80.0	0.78	0.70	0.56	5.6	2.3	2.9	IE2
380	Y	50	1.10	-/-	2.65	1425	7.4	81.4	81.8	80.0	0.78	0.70	0.56	5.6	2.3	2.9	IE2
440	Y	60	1.27	-/-	2.55	1725	7.0	84.0	84.7	83.3	0.78	0.71	0.59	6.1	2.3	3.0	IE2
440	Y	60	1.10	-/-	2.30	1740	6.0	84.0	83.7	81.2	0.74	0.65	0.52	7.0	2.7	3.6	IE2

IM B3 / IM 1001	FS 90 S	13 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 19.2 s | 25.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58.0 / 62.0 dB(A) ²⁾	58.0 / 62.0 dB(A) ²⁾	External earthing terminal	Yes
Moment of inertia	0.0028 kg m²		Vibration severity grade	A
Bearing DE NDE	6205 2Z C3	6004 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	-/-		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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) L10mh 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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV2090B

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	G11	Rotary pulse encoder Sendix 5020 (HTL)
F70	Mounting of separately driven fan	H04	External grounding at housing

Notes:

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