

SIMOTICS GP - 90 S - IM B3 - 4p

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

Safe Area

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	
400	Δ	50	1.10	-/-	2.50	1425	7.4	81.4	81.8	80.0	0.78	0.70	0.56	5.6	2.3	2.9	IE2
690	Y	50	1.10	-/-	1.45	1425	7.4	81.4	81.8	80.0	0.78	0.70	0.56	5.6	2.3	2.9	IE2
460	Δ	60	1.27	-/-	2.45	1725	7.0	84.0	84.7	83.3	0.78	0.71	0.59	6.1	2.3	3.0	IE2
460	Δ	60	1.10	-/-	2.20	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						

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

Sound level (SPL / SWL) at 50Hz 60Hz	56.0 / 68.0 dB(A) ²⁾	58.0 / 70.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0028 kg m ²		Vibration severity grade	A
Bearing DE NDE	6205 2Z C3	6004 2Z C3	Insulation	155(F) to 155(F)
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	(B) 1 PTC thermistor - for tripping (2 terminals)
Condensate drainage holes	-/		Method of cooling	IC418 - without fan and without housing fan

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	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

I_{lr}/I_{ln} = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_{lr}/M_{ln} = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_{ln} = break down torque / nominal torque		

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



Motor type : 1AV2090B

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Special design

D04	Minimum ambient temperature -30°C	H08	Terminal box at the NDE
F90	Without external fan and without external fan cover	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature

Notes:

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