

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3094C

SIMOTICS GP - 90 L - IM B14 - 6p

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

Remarks	Safe Area
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	1.10	-/-	5.20	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3	
400	Y	50	1.10	-/-	2.95	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3	
IM B14 / IM 3601			FS 90 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 31.8 s 40.5 s									

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	43 / 55 dB(A) ^{2) 3)}	46 / 58 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0052 kg m²		Thermal class	F
Bearing DE NDE	6205 2Z C3	6004 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	19 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self 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 mm - 17 mm								
Type of terminal box			TB1 E00			Cable entry			1xM25x1,5-1xM16x1,5								
Contact screw thread			M4			Cable gland			2 plugs								

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

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