

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



Motor type : 1AV2112A

SIMOTICS GP - 112 M - IM B5 - 2p

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N I_i/I_N	M_A/M_N T_i/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	4.00	-/-	7.90	2945	13.0	85.8	86.2	85.1	0.85	0.79	0.68	8.0	2.1	3.6	IE2
690	Y	50	4.00	-/-	4.60	2945	13.0	85.8	86.2	85.1	0.85	0.79	0.68	8.0	2.1	3.6	IE2
460	Δ	60	4.55	-/-	7.60	3540	12.3	87.5	87.7	86.4	0.86	0.82	0.72	8.3	2.2	3.6	IE2
460	Δ	60	3.70	-/-	6.40	3555	9.9	87.5	86.9	84.6	0.83	0.77	0.66	9.9	2.7	4.5	IE2
IM B5 / IM 3001		FS 112 M		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 5.98 s 10.8 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 81 dB(A) ²⁾	73 / 85 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0092 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} , F_{Rad} , m_{min} for coupling operation 50 60Hz	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	27 kg
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	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

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>	Link documents
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