

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



Motor type : 1AV1112A

SIMOTICS GP - 112 M - IM B3 - 2p

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	4.00	-/-	14.20	2935	13.0	83.1	82.9	80.5	0.85	0.77	0.65	8.3	3.3	4.2	IE1
400	Y	50	4.00	-/-	8.20	2935	13.0	83.1	82.9	80.5	0.85	0.77	0.65	8.3	3.3	4.2	IE1
460	Y	60	4.55	-/-	7.80	3535	12.3	84.5	84.2	82.1	0.87	0.82	0.71	9.0	3.3	4.6	IE1
IM B3 / IM 1001			FS 112 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 4.2 s 8.2 s								

Mechanical data



Sound level (SPL / SWL) at 50Hz 60Hz	69 / 81 dB(A) ^{2) 3)}	73 / 85 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0067 kg m²		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 min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	25 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	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
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

I _A /I _N = locked rotor current / current nominal M _K /M _N = locked rotor torque / torque nominal M _B /M _N = break down torque / nominal torque	1) L _{10mh} according to DIN ISO 281 10/2010 2) at rated power I at full load	3) Value is valid only for DOL operation with motor design IC411
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