

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



Motor type : 1AV3116A

SIMOTICS GP - 112 M - IM B3 - 2p

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

Remarks

Electrical data

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	
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	60	5.79	-/-	11.30	3550	15.6	89.6	89.5	88.0	0.87	0.82	0.73	10.0	3.0	4.3	IE3
660	Y	60	5.79	-/-	6.50	3550	15.6	89.6	89.5	88.0	0.87	0.82	0.73	10.0	3.0	4.3	IE3
380	Δ	60	5.50	-/-	10.90	3560	14.8	89.5	89.3	87.8	0.86	0.81	0.72	10.4	3.1	4.7	IE3
660	Y	60	5.50	-/-	6.30	3560	14.8	89.5	89.3	87.8	0.86	0.81	0.72	10.4	3.1	4.7	IE3
IM B3 / IM 1001		FS 112 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 7.2 s | 10.8 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 77 dB(A) ^{2) 3)}	73 / 81 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0096 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 min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	36 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_K/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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
DI MC LVM		DT Configurator			
	document type				document status
	datasheet				released
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	1LE1003-1BA63-0AA4-Z B02+D22+N06+Y82				
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	Y82	Auxiliary name plate with customer data

Notes:

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.		Link documents	
	document type datasheet			document status released			
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