

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



Motor type : 1AV2116B

SIMOTICS GP - 112 M - IM B14 - 4p

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	
400	Δ	50	5.50	-/-	11.20	1460	36.0	87.7	88.2	87.2	0.81	0.73	0.60	7.1	2.5	3.2	IE2
690	Y	50	5.50	-/-	6.50	1460	36.0	87.7	88.2	87.2	0.81	0.73	0.60	7.1	2.5	3.2	IE2
460	Δ	60	6.30	-/-	10.80	1760	34.0	89.5	89.8	88.6	0.82	0.75	0.63	7.4	2.5	3.2	IE2
460	Δ	60	5.50	-/-	9.60	1765	30.0	89.5	89.3	87.4	0.80	0.72	0.59	8.3	2.8	3.6	IE2
IM B14 / IM 3601		FS 112 M		34 kg		IP56		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 7.69 s | 13.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58.0 / 70.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0170 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	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	(A) without (Standard)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 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.			
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Special design

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	H22	IP 56 degree of protection
D47	TR CU product safety certificate EAC for the Eurasian Customs Union		

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.				
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