

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



Motor type : 1AV3112D

SIMOTICS GP - 112 M - IM B14 - 8p

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)																	
230	Δ	50	1.50	-/-	7.50	720	19.9	79.7	85.6	77.3	0.63	0.54	0.41	5.1	2.6	3.1	IE3
400	Y	50	1.50	-/-	4.15	720	19.9	79.7	85.6	77.3	0.63	0.54	0.41	5.1	2.6	3.1	IE3
IM B14 / IM 3601			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) : 23.5 s | 30.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61.7 / 69.7 dB(A) _{2) 3)}	65 / 73 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0280 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	34 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	right	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	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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			
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Special design

F01	Mounting a brake	P01	Next larger standard flange
F12	Brake supply voltage 400 V AC, 50/60 Hz		

Additional information:

Brake:

Description:	BFK458-14	Current:	.28 A
Voltage:	AC 400 V	Moment of inertia:	0.000630 kgm ²

Notes:

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