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

Motor type : 1AV3112C **SIMOTICS GP - 112 M - IM B14 - 6p**

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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
230	Δ	50	1.91	-/-	7.90	970	18.8	84.7	84.6	82.7	0.71	0.63	0.48	6.4	2.5	3.2	IE3
400	Y	50	1.91	-/-	4.55	970	18.8	84.7	84.6	82.7	0.71	0.63	0.48	6.4	2.5	3.2	IE3
460	Y	60	2.21	-/-	4.45	1170	18.0	87.8	87.7	86.0	0.71	0.63	0.50	6.8	2.5	3.2	IE2
460	Y	60	2.20	-/-	4.40	1175	17.9	87.5	87.4	85.6	0.72	0.64	0.52	6.5	2.5	3.3	IE2
IM B14 / IM 3601			FS 112 M	34 kg	IP65			IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 26.8 s | 34.8 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	65.0 / 74.0 dB(A) 2)	65.0 / 77.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.0170 kg m²		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} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
H07	Stainless steel screws and bolts (outside the motor)	Q02	Anti-condensation heating for 230 V (2 terminals)
H20	IP 65 degree of protection	S03	Special paint finish in sea air resistant C4
M11	Stainless steel rating plate		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 25W

Notes:

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DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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