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

Motor type : 1AV3104A **SIMOTICS GP - 100 L - IM B14 - 2p**

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_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
230	Δ	50	3.00	-/-	9.80	2920	9.8	87.1	87.9	87.5	0.88	0.84	0.74	8.1	3.2	4.6	IE3
400	Y	50	3.00	-/-	5.60	2920	9.8	87.1	87.9	87.5	0.88	0.84	0.74	8.1	3.2	4.6	IE3
460	Y	60	3.45	-/-	5.50	3520	9.4	88.5	89.2	88.5	0.89	0.85	0.77	8.5	3.3	4.7	IE3
460	Y	60	3.00	-/-	4.90	3525	8.1	88.5	88.7	87.2	0.87	0.83	0.73	9.7	3.8	5.5	IE3

IM B14 / IM 3601	FS 100 L	26 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 11 s | 14.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	67.0 / 79.0 dB(A) 2)	71.0 / 83.0 dB(A) 2)	External earthing terminal	No
Moment of inertia	0.0054 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)	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

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
Contact screw thread	M4	Cable gland	2 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.*

SIEMENS

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