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

Motor type : 1AV3083C   **SIMOTICS GP - 80 M - IM B5 - 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	3/4	2/4	cosφ [3] 4/4	3/4	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	0.55	-/-	2.65	935	5.6	77.2	77.0	73.9	0.67	0.57	0.44	4.5	2.5	2.8	IE3
400	Y	50	0.55	-/-	1.53	935	5.6	77.2	77.0	73.9	0.67	0.57	0.44	4.5	2.5	2.8	IE3
460	Y	60	0.63	-/-	1.44	1135	5.3	81.7	81.4	78.3	0.67	0.58	0.45	5.0	2.5	2.9	IE3
460	Y	60	0.55	-/-	1.34	1145	4.6	81.7	80.5	76.4	0.63	0.54	0.42	5.3	2.8	3.4	IE3

IM B5 / IM 3001	FS 80 M	14 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN	

Environmental conditions : -20 °C - +40 °C / 1,000 m	Locked rotor time (hot / cold) : 43.4 s | 54.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	42.0 / 53.0 dB(A) [2]	45.0 / 56.0 dB(A) [2]	External earthing terminal	No
Moment of inertia	0.0031 kg m²		Vibration severity grade	A
Bearing DE | NDE	6004 2Z C3	6004 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	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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. 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.*

SIEMENS

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