

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



Motor type : 1AV2182B

SIMOTICS GP - 180 M - IM B3 - 4p

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⁾			$\cos\phi$ ³⁾			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
								4/4	3/4	2/4	4/4	3/4	2/4				
230	Δ	50	18.50	-/-	61.00	1465	121.0	91.2	92.0	91.9	0.84	0.79	0.69	7.2	2.5	3.4	IE2
400	Y	50	18.50	-/-	35.00	1465	121.0	91.2	92.0	91.9	0.84	0.79	0.69	7.2	2.5	3.4	IE2
460	Y	60	21.30	-/-	34.00	1765	115.0	92.4	93.0	92.7	0.85	0.81	0.72	6.8	2.5	3.4	IE2
460	Y	60	18.50	-/-	30.50	1770	100.0	92.4	92.6	91.9	0.83	0.78	0.67	7.7	2.8	3.9	IE2

IM B3 / IM 1001	FS 180 M	128 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 11.8 s | 21.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61.0 / 74.0 dB(A) ²⁾	64.0 / 77.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.1200 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z 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	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>			
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