

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



Motor type : 1AV2082B

SIMOTICS GP - 80 M - IM B3 - 4p

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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
230	Δ	50	0.55	-/-	2.40	1440	3.6	77.1	76.8	73.7	0.74	0.65	0.51	5.3	2.2	3.1	IE2
400	Y	50	0.55	-/-	1.39	1440	3.6	77.1	76.8	73.7	0.74	0.65	0.51	5.3	2.2	3.1	IE2
460	Y	60	0.63	-/-	1.42	1735	3.5	75.5	75.8	73.5	0.74	0.67	0.54	5.7	2.4	3.3	IE2
460	Y	60	0.55	-/-	1.29	1750	3.0	75.5	74.6	71.1	0.71	0.62	0.49	6.4	2.7	3.8	IE2

IM B3 / IM 1001		FS 80 M		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) : 17.5 s | 23 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	53 / 64 dB(A) ²⁾	55 / 66 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0017 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6004 2Z C3	6004 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	10 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	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
DI MC LVM		DT Configurator		

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