

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



Motor type : 1AV3083C

SIMOTICS GP - 80 M - IM B3 - 6p

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	η ³⁾			cosφ 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	
DOL duty (S1) - 155(F) to 130(B)																	
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	-/-	1.74	1135	5.3	68.0	67.7	64.6	0.67	0.58	0.45	5.0	2.5	2.9	IE2
460	Y	60	0.55	0.75	1.34	1145	4.6	81.7	80.5	76.4	0.63	0.54	0.42	5.3	2.8	3.4	MG1
IM B3 / IM 1001			FS 80 M				IP55	UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12			kVA Code: L		
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 43.6 s 55 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	42 / 53 dB(A) ^{2) 3)}	45 / 56 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0031 kg m ²		Thermal class	F
Bearing DE NDE	6004 2Z C3	6004 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	No		Net weight of the motor (IM B3)	14 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

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 E10	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/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.	Link documents
DI MC LVM		DT Configurator			
	document type				document status
	datasheet				released
	title				document number
	1LE1023-0DC32-2AB4				
© Siemens AG 2022		rev.	creation date	language	Page
		929	2022-12-27	en	1/1

