

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



Motor type : 1AV2082B

SIMOTICS GP - 80 M - IM B5 - 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	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	-/-	2.40	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	MG1
IM B5 / IM 3001		FS 80 M				IP55	UKCA	IEC/EN 60034		IEC, EN, UL							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 17.8 s 23.3 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	53 / 64 dB(A) ^{2) 3)}	55 / 66 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0017 kg m²		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	Without		Net weight of the motor (IM B3)	10 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		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 E00			Cable entry			1xM25x1,5								
Contact screw thread			M4			Cable gland			1 plug								

Notes:		
I_A/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_K/M_N = break down torque / nominal torque		

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	
IN LVM		SPC							
SIEMENS	document type			document status					
	datasheet			released					
	title			document number					
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Special design

D31

Version according to UL with "Recognition Mark"

Notes:

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