

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



Motor type : 1AV3082B

SIMOTICS GP - 80 M - IM V1 - 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	
240	Δ	50	0.55	-/-	2.10	1440	3.6	80.8	81.1	79.3	0.78	0.70	0.57	5.9	2.1	3.1	IE3
415	Y	50	0.55	-/-	1.21	1440	3.6	80.8	81.1	79.3	0.78	0.70	0.57	5.9	2.1	3.1	IE3
480	Y	60	0.63	-/-	1.20	1740	3.5	81.1	81.3	79.4	0.78	0.70	0.58	6.4	2.4	3.3	IE3
480	Y	60	0.55	-/-	1.10	1750	3.0	81.1	80.8	78.2	0.74	0.66	0.53	6.9	2.7	3.8	IE3
IM V1 / IM 3011		FS 80 M		11 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 24.6 s | 29 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	53.0 / 64.0 dB(A) ²⁾	55.0 / 66.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.0021 kg m ²		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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
Regreasing device	No		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		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 ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	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_B/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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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
C02	VIK version	Q02	Anti-condensation heating for 230 V (2 terminals)
H00	Canopy		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 12.5W

Notes:

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.			
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