

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



Motor type : 1AV2182A

SIMOTICS GP - 180 M - IM B5 - 2p

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	
400	Δ	50	22.00	-/-	40.00	2940	71.0	91.3	91.8	91.3	0.87	0.83	0.74	7.4	2.7	3.6	IE2
690	Y	50	22.00	-/-	23.00	2940	71.0	91.3	91.8	91.3	0.87	0.83	0.74	7.4	2.7	3.6	IE2
460	Δ	60	24.50	-/-	39.00	3540	66.0	91.0	91.2	90.3	0.87	0.83	0.75	7.7	2.8	3.8	IE2
460	Δ	60	22.00	-/-	35.50	3550	59.0	91.0	91.2	90.3	0.86	0.82	0.74	8.4	3.0	4.1	IE2
IM B5 / IM 3001		FS 180 M		123 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 10.4 s | 19.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	77.0 / 84.0 dB(A) ²⁾	80.0 / 87.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0690 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 C3	6210 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
Relubrication interval/quantity DE NDE	10 g 10 g	4000 h	Frame material	aluminum
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	-/-			

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_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.			
DI MC LVM		DT Configurator					
	document type	datasheet		document status	released		
	title	1LE1001-1EA23-4FB4-Z		document number			
© Siemens AG 2021		D47+L20+L23+S02+Y53		rev.	creation date	language	Page
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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	S02	Special paint finish C3
L20	Locating bearing, DE	Y53	Paint finish in other standard RAL colours
L23	Regreasing system		

Notes:

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