

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



Motor type : 1AV2186A

SIMOTICS GP - 180 L - IM B3 - 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	30.00	-/-	53.00	2940	97.0	92.0	92.6	92.3	0.89	0.87	0.80	7.8	2.3	3.4	IE2
690	Y	50	30.00	-/-	30.50	2940	97.0	92.0	92.6	92.3	0.89	0.87	0.80	7.8	2.3	3.4	IE2
460	Δ	60	33.50	-/-	51.00	3540	90.0	92.4	92.7	91.9	0.89	0.87	0.81	7.6	2.2	3.3	IE2
460	Δ	60	30.00	-/-	46.00	3550	81.0	91.7	91.7	90.6	0.89	0.86	0.79	8.5	2.5	3.7	IE2
IM B3 / IM 1001		FS 180 L		139 kg		IP56		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 12.7 s | 25.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 83.0 dB(A) ²⁾	81.0 / 88.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0940 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z 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)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

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	1) L10mh 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 _B /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.			
DI MC LVM		DT Configurator					
	document type			document status		customer	
	datasheet			released			
	title			document number			
	1LE1001-1EA63-4AB4-Z						
	H22			rev.	creation date	language	Page
© Siemens AG 2021				01	2021-04-20 23:03	en	1/2

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



Motor type : 1AV2186A

SIMOTICS GP - 180 L - IM B3 - 2p

Special design

H22 IP 56 degree of protection

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.			
	document type datasheet	document status released			customer			
	title 1LE1001-1EA63-4AB4-Z							
© Siemens AG 2021	H22	rev. 01	creation date 2021-04-20 23:03		language en	Page 2/2		