

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



Motor type : 1AV3184B

SIMOTICS GP - 180 L - IM B35 - 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)																	
400	Y	50	22.00	-/-	41.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
460	Y	60	25.30	-/-	41.00	1770	136.0	93.6	94.1	94.0	0.83	0.78	0.69	6.9	2.2	3.2	IE3
460	Y	60	22.00	-/-	36.50	1775	118.0	93.6	93.8	93.3	0.81	0.75	0.65	7.7	2.8	3.7	IE3
IM B35 / IM 2001			FS 180 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 26.4 s 41.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz/60Hz	68 / 75 dB(A) ^{2) 3)}	70 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1400 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 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)	142 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		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	16 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 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 _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	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
	1LE1003-1EB40-2JA4-Z						
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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204



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