

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



Motor type : 1AV3164B

SIMOTICS GP - 160 L - 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 155(F)																	
400	Δ	50	15.00	-/-	28.50	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
690	Y	50	15.00	-/-	16.60	1475	97.0	92.1	92.3	91.5	0.82	0.76	0.65	8.5	2.5	3.8	IE3
460	Δ	60	17.30	-/-	28.50	1775	93.0	92.4	92.5	91.7	0.83	0.78	0.68	8.5	2.5	3.7	IE2
460	Δ	60	15.00	-/-	25.00	1780	80.0	93.0	92.8	91.4	0.81	0.75	0.64	9.5	2.9	4.3	IE3
IM B5 / IM 3001			FS 160 L			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / 1,000 m									Locked rotor time (hot / cold) : 16.4 s 23.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ²⁾	69 / 81 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0850 kg m ²		Thermal class	F
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad} min 50 60Hz Lubricants	40000 h	32000 h	Frame material	aluminum
Regreasing device	Unirex N3		Net weight of the motor (IM B3)	100 kg
Grease nipple	No		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(A) without (Standard)
External earthing terminal	No		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 _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.		Link documents	
DI MC LVM		DT Configurator					
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	datasheet			released			
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				01	2021-12-09	en	1/2

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Special design

N03 Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature

Notes:

responsible dep.

DI MC LVM

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[Link documents](#)

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2/2