

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



Motor type : 1AV3164C

SIMOTICS GP - 160 L - IM B3 - 6p

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	11.00	-/-	22.00	980	107.0	90.3	90.7	89.8	0.80	0.75	0.64	6.8	2.9	2.8	IE3
690	Y	50	11.00	-/-	12.70	980	107.0	90.3	90.7	89.8	0.80	0.75	0.64	6.8	2.9	2.8	IE3
460	Δ	60	12.60	-/-	22.00	1180	102.0	90.2	90.5	89.5	0.80	0.75	0.65	7.1	3.0	2.8	IE2
460	Δ	60	11.00	-/-	19.60	1185	89.0	90.2	90.1	88.5	0.78	0.72	0.61	8.0	3.4	3.2	IE2
IM B3 / IM 1001		SF: 1.15	FS 160 L		106 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 18 s | 25.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67.0 / 79.0 dB(A) ²⁾	70.0 / 82.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.1640 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 155(F)
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	(A) without (Standard)
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
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.			
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Special design

N01 Temperature class 155 (F), utilised to 155 (F), with service factor (SF)

Notes:

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