

SIMOTICS GP - 160 L - IM B3 - 8p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_A/T_N	T_B/T_N	
230	Δ	50	7.50	-/-	31.50	725	99.0	85.3	86.4	86.0	0.70	0.65	0.54	3.8	1.6	1.9	IE2
400	Y	50	7.50	-/-	18.10	725	99.0	85.3	86.4	86.0	0.70	0.65	0.54	3.8	1.6	1.9	IE2
460	Y	60	8.60	-/-	17.40	870	94.0	88.5	89.6	89.2	0.70	0.66	0.56	3.9	1.6	1.8	IE2
460	Y	60	7.50	-/-	15.60	880	81.0	88.5	88.9	87.7	0.68	0.63	0.52	4.4	1.8	2.0	IE2
IM B3 / IM 1001			FS 160 L		94 kq		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 56 s | 86.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz/60Hz	63.0 / 75.0 dB(A) ²⁾	71.0 / 83.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0980 kg m ²		Vibration severity grade	A
Bearing DE NDE	6309 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} , F _{Rad min} for coupling operation 50 60Hz ¹⁾	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	(F) 1 temperature sensor KTY84-130 (2 terminals)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	left	Max. cross-sectional area	16.0 mm²
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_A/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.			
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	datasheet			released			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV2164D

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Special design

G41 Prepared to mount components with D12 shaft L22 Bearing design for increased cantilever forces

Notes:

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