

SIMOTICS GP - 160 L - IM V1 - 2p

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

Remarks

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	
380	Δ	50	18.50	-/-	35.00	2955	60.0	90.9	91.2	90.6	0.88	0.84	0.74	7.9	2.9	3.6	IE2
660	Y	50	18.50	-/-	20.00	2955	60.0	90.9	91.2	90.6	0.88	0.84	0.74	7.9	2.9	3.6	IE2
440	Δ	60	21.30	-/-	34.50	3555	57.0	91.0	91.2	90.2	0.89	0.88	0.78	7.9	2.9	3.6	IE2
440	Δ	60	18.50	-/-	30.50	3565	49.5	91.0	90.8	89.5	0.87	0.84	0.77	8.9	3.3	4.1	IE2
IM V1 / IM 3011			FS 160 L		84 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 11.3 s | 20.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 82.0 dB(A) ²⁾	77.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0610 kg m ²		Vibration severity grade	A
Bearing DE NDE	6309 2Z C3	6309 2Z C3	Insulation	155(F) to 155(F)
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	(B) 3 PTC thermistors - for tripping (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. 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.			
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Special design

L25	Double sides reinforced bearings for DE and NDE, Type 63	R12	Terminal box rotated through 180°
N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature		

Notes:

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