

SIMOTICS GP - 160 M - IM V1 - 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_I/I_N	T_I/T_N	T_B/T_N	
230	Δ	50	4.00	-/-	16.10	730	52.0	84.5	85.3	84.2	0.74	0.67	0.55	4.7	1.6	2.1	IE3
400	Y	50	4.00	-/-	9.10	730	52.0	84.5	85.3	84.2	0.74	0.67	0.55	4.7	1.6	2.1	IE3
460	Y	60	4.55	-/-	8.90	880	49.5	86.5	87.2	86.1	0.74	0.68	0.57	4.9	1.6	2.1	IE3
460	Y	60	3.70	-/-	7.50	885	40.0	86.5	86.2	84.0	0.71	0.63	0.51	5.8	2.0	2.6	IE3

IM V1 / IM 3011

FS 160 M

67 ka

IP55

EC/EN

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DIN.

EN

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

Locked rotor time (hot / cold) : 44.3 s | 59.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 78.0 dB(A) ²⁾	66.0 / 79.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0760 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 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	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	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
Contact screw thread	M5	Cable gland	2 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.			
DI MC LVM		DT Configurator					
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3162D

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Special design

H00	Canopy	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
H07	Stainless steel screws and bolts (outside the motor)		

Notes:

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