

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



Motor type : 1AV3162A

SIMOTICS GP - 160 M - IM B3 - 2p

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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
400	Δ	50	9.57	-/-	17.30	2960	30.9	91.1	90.4	87.9	0.87	0.83	0.74	9.1	2.8	4.4	IE3
460	Δ	60	10.96	-/-	17.20	3560	29.4	90.8	90.0	87.2	0.88	0.84	0.76	9.1	3.2	4.2	IE3
460	Δ	60	11.00	-/-	17.20	3560	29.5	91.0	90.2	88.0	0.88	0.85	0.77	8.9	3.2	4.3	IE3
IM B3 / IM 1001		FS 160 M		75 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 23.3 s | 31.7 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

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	0.0530 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)	Special paint finish C3
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
 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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Special design

H02	Vibration-proof version	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
H07	Stainless steel screws and bolts (outside the motor)	S02	Special paint finish C3

Notes:

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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