

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



Motor type : 1AV3162B

SIMOTICS GP - 160 M - IM B3 - 4p

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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	10.12	-/-	19.90	1470	65.8	91.6	91.9	91.9	0.80	0.73	0.61	8.7	2.7	3.8	IE3
690	Y	50	10.12	-/-	11.50	1470	65.8	91.6	91.9	91.9	0.80	0.73	0.61	8.7	2.7	3.8	IE3
460	Δ	60	11.59	-/-	19.30	1765	62.7	92.6	92.8	92.4	0.81	0.76	0.65	8.8	3.6	3.8	IE3
460	Δ	60	11.00	-/-	18.40	1775	59.0	92.4	92.6	92.0	0.81	0.75	0.63	9.0	3.8	4.0	IE3
IM B3 / IM 1001		FS 160 M				IP65			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 25.9 s | 33.6 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	75 / 79 dB(A) ²⁾	75 / 79 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0583 kg m ²		Thermal class	F
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	78 kg
Regreasing device	No		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
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	No		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	Yes			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 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.	Link documents
DI MC LVM		DT Configurator			
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	B02+F70+H04+H07+H20+M11+N06+S03+Y53+Y84				
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	M11	Stainless steel rating plate
F70	Mounting of separately driven fan	N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced
H04	External grounding at housing	S03	Special paint finish in sea air resistant C4
H07	Stainless steel screws and bolts (outside the motor)	Y53	Paint finish in other standard RAL colours
H20	IP 65 degree of protection	Y84	Additional data on the rating plate and on the packing label :

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.	Link documents
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