

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



Motor type : 1AV3162C

SIMOTICS GP - 160 M - IM B3 - 6p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								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	6.15	-/-	12.80	985	59.6	89.5	89.3	88.0	0.77	0.70	0.57	9.6	2.8	3.9	IE3
690	Y	50	6.15	-/-	7.40	985	59.6	89.5	89.3	88.0	0.77	0.70	0.57	9.6	2.8	3.9	IE3
460	Δ	60	7.05	-/-	12.70	1185	56.8	89.4	88.9	87.0	0.78	0.70	0.55	10.1	2.8	4.0	IE2
460	Δ	60	7.27	-/-	12.80	1185	58.6	89.6	90.2	89.6	0.79	0.74	0.64	9.6	2.8	3.8	IE2
IM B3 / IM 1001		FS 160 M		95 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +60 °C / 1,000 m

Locked rotor time (hot / cold) : 12.7 s | 17 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	67.0 / 79.0 dB(A) ²⁾	70.0 / 82.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.1320 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} 50 60Hz ¹⁾ for coupling operation	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	No		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	2xM40x1,5-1xM16x1,5
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.			
DI MC LVM		DT Configurator					
	document type	datasheet		document status		customer	
	title	1LE1003-1DC23-4AB4-Z		released			
© Siemens AG 2021		F74+N08		document number			
				rev.	creation date	language	Page
				01	2021-06-08 09:50	en	1/2

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Special design

F74	Sheet steel fan cowl	N08	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 60°C, power reduced
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