

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



Motor type : 1AV1162C

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]	η 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	Y	50	7.50	-/-	17.50	970	74.0	84.7	84.8	83.2	0.73	0.66	0.54	5.5	2.1	2.9	IE1
460	Y	60	8.60	-/-	16.70	1170	70.0	86.0	86.0	84.5	0.75	0.68	0.57	5.9	2.2	2.9	IE1
IM B3 / IM 1001		FS 160 M		72 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 14.7 s | 23.3 s

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	Yes
Moment of inertia	0.0560 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	3 Bi-metallic sensors (opener) for tripping (2 terminals)
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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/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.			
	document type datasheet			document status released		customer		
	title 1LE1002-1DC20-2AZ4-Z B02+D22+F74+H04+Q3A			document number				
© Siemens AG 2021				rev. 01	creation date 2021-04-23 16:07	language en	Page 1/2	

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



Motor type : 1AV1162C

SIMOTICS GP - 160 M - IM B3 - 6p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H04	External grounding at housing
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
F74	Sheet steel fan cowl		

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.			
	document type datasheet	document status released			customer			
	title 1LE1002-1DC20-2AZ4-Z							
© Siemens AG 2021	B02+D22+F74+H04+Q3A	rev. 01	creation date 2021-04-23 16:07		language en	Page 2/2		