

SIMOTICS GP - 160 L - IM B3 - 4p

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_A/I_N	T_A/T_N	T_B/T_N	
400	Δ	50	15.00	-/-	28.00	1475	97.0	90.6	91.2	90.8	0.85	0.81	0.71	7.3	2.3	3.0	IE2
690	Y	50	15.00	-/-	16.30	1475	97.0	90.6	91.2	90.8	0.85	0.81	0.71	7.3	2.3	3.0	IE2
460	Δ	60	17.30	-/-	27.50	1775	93.0	92.4	92.9	92.4	0.86	0.83	0.74	7.7	2.3	2.9	IE2
460	Δ	60	15.00	-/-	24.50	1780	80.0	91.0	91.1	90.1	0.84	0.80	0.69	8.5	2.6	3.4	IE2
IM B3 / IM 1001			FS 160 L		83 kq		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 14.1 s | 23.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0710 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	(B) 3 PTC thermistors - 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 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
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			document status		customer	
	datasheet			released			
	title			document number			
	1LE1001-1DB43-4AB4-Z						
	D22+D47			rev.	creation date	language	Page
© Siemens AG 2021				01	2021-04-22 20:48	en	1/2

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



Motor type : 1AV2164B

SIMOTICS GP - 160 L - IM B3 - 4p

Special design

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009) D47 TR CU product safety certificate EAC for the Eurasian Customs Union

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.			
SIEMENS	document type datasheet				document status released		customer	
	title 1LE1001-1DB43-4AB4-Z				document number			
© Siemens AG 2021	D22+D47				rev. 01	creation date 2021-04-22 20:48	language en	Page 2/2