

SIMOTICS GP - 160 L - IM B3 - 8p

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

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ 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)																	
230	Δ	50	7.50	-/-	29.50	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3
400	Y	50	7.50	-/-	16.90	730	98.0	87.3	87.9	86.9	0.73	0.64	0.52	5.8	2.3	2.7	IE3
IM B3 / IM 1001			FS 160 L			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 24.8 s 40 s							

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 78 dB(A) ^{2) 3)}	66 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1300 kg m²		Thermal class	F
Bearing DE NDE	6309 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	86 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box position	left	Max. cross-sectional area	16 mm²
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_{Lr}/I_{Ln} = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_r/M_{rn} = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_{bn} = break down torque / nominal torque		

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	
	document type datasheet			document status released			
	title 1LE1003-1DD42-2AF6-Z			document number			
© Siemens AG 2022	G41+L22			rev. 01	creation date 2022-07-12	language en	Page 1/2

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



Motor type : 1AV3164D

SIMOTICS GP - 160 L - IM B3 - 8p

Special design

G41 Prepared to mount components with D12 shaft L22 Bearing design for increased cantilever forces

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](#)

SIEMENS

document type

datasheet

title

1LE1003-1DD42-2AF6-Z

G41+L22

document status

released

document number

rev.

01

creation date

2022-07-12

language

en

Page

2/2

© Siemens AG 2022