

SIMOTICS GP - 160 M - IM B3 - 2p

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

Remarks

Safe Area

Electrical data

-/-

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)																	
400	Δ	50	12.30	-/-	24.00	2950	39.8	90.4	89.9	87.8	0.82	0.75	0.62	9.6	3.0	4.3	IE2
690	Y	50	12.30	-/-	13.80	2950	39.8	90.4	89.9	87.8	0.82	0.75	0.62	9.6	3.0	4.3	IE2
460	Δ	60	14.18	-/-	23.50	3550	38.1	91.0	90.3	87.8	0.84	0.79	0.69	9.8	2.9	4.3	IE2
460	Δ	60	14.55	-/-	23.50	3550	39.1	90.2	89.7	88.2	0.85	0.80	0.71	9.3	2.9	4.2	IE2
IM B3 / IM 1001			FS 160 M			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +60 °C / 1000 m									Locked rotor time (hot / cold) : 12.9 s 21.3 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	76 / 84 dB(A) ^{2) 3)}	82 / 90 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0426 kg m²		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 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	70 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	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
Contact screw thread	M5	Cable gland	2 plugs

I_R/I_N = locked rotor current / current nominal	1) L_{10th} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_R/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_R/M_{br} = break down torque / nominal torque		

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
	Document type Technical data sheet			Document status Released			
	Document title 1LE1001-1DA33-4AA4-Z			Document number TDS-240514-115353			
Restricted © Innomotics 2024	D22+N08			Revision AA	Creation date 2024-05-14	Language en	Page 1/2

SIMOTICS GP - 160 M - IM B3 - 2p

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	N08	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 60°C, power reduced
-----	---	-----	--

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
	Document type Technical data sheet			Document status Released			
	Document title 1LE1001-1DA33-4AA4-Z			Document number TDS-240514-115353			
Restricted © Innomotics 2024	D22+N08			Revision AA	Creation date 2024-05-14	Language en	Page 2/2