

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



Motor type : 1AV3163D SIMOTICS GP - 160 M - IM B3 - 8p

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

Remarks

Electrical data

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)																		
400	Δ	50	5.50	-/-	12.40	730	72.0	86.2	87.0	86.3	0.73	0.67	0.55	5.5	2.0	2.4	IE3	
690	Y	50	5.50	-/-	7.30	730	72.0	86.2	87.0	86.3	0.73	0.67	0.55	5.5	2.0	2.4	IE3	
IM B3 / IM 1001				FS 160 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 31 s 44.1 s									

Mechanical data

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	0.1000 kg m ²		Thermal class	F
Bearing DE NDE	6209 2Z C3	6209 2Z C3 INS	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)	78 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(A) without (Standard)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Without			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
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

Notes: I_A/I_N = 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_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/M_N = 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 1LE1003-1DD33-4AA4-Z				document number			
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Special design

L51 Bearing insulation NDE

Notes:

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