

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



Motor type : 1AV3163A INNOMOTICS GP - 160 M - IM V1 - 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	15.00	-/-	27.50	2955	48.5	91.9	91.9	90.8	0.86	0.81	0.71	10.2	3.5	4.4	IE3
690	Y	50	15.00	-/-	15.90	2955	48.5	91.9	91.9	90.8	0.86	0.81	0.71	10.2	3.5	4.4	IE3
460	Δ	60	17.30	-/-	27.00	3550	46.5	91.7	91.4	90.2	0.88	0.84	0.75	10.1	3.3	4.5	IE3
460	Δ	60	15.00	-/-	24.00	3560	40.0	91.0	90.4	88.5	0.86	0.81	0.71	11.8	4.0	5.2	IE3
IM V1 / IM 3011		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) : 13.3 s 18.9 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	77 / 85 dB(A) ^{2) 3)}	81 / 89 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0430 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⁾	20000 h	16000 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
Condensate drainage holes	With		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

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			2xM40x1,5-1xM16x1,5								
Contact screw thread			M5			Cable gland			3 plugs								

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} 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

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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	
INNOMOTICS	Document type Technical data sheet			Document status Released			
	Document title 1LE1003-1DA33-4GB4-Z			Document number TDS-240923-123833			
	Restricted © Innomotics 2024			Revision AA	Creation date 2024-09-23		

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Special design

H00	Canopy	H03	Condensation drain holes in end shield
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