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

Motor type : 1AV3104A **INNOMOTICS GP - 100 L - IM B3 - 2p**

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

Remarks

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	3.00	-/-	5.70	2910	9.8	87.1	87.7	87.0	0.87	0.82	0.72	9.4	4.4	4.5	IE3
460	Δ	60	3.45	-/-	5.60	3505	9.4	88.5	88.5	87.5	0.87	0.83	0.73	10.0	4.0	4.8	IE3
460	Δ	60	3.00	4.00	5.00	3525	8.1	88.5	88.2	86.7	0.85	0.80	0.69	11.2	4.6	5.6	MG1

IM B3 / IM 1001		FS 100 L	CC032A	IP55	UKCA	IEC/EN 60034	IEC, EN, UL, CSA, NEMA MG1-12-12	kVA Code: M	

Environmental conditions : -20 °C - +40 °C / 1000 m	Locked rotor time (hot / cold) : 9 s | 12.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	72 / 80 dB(A) 2) 3)	75 / 83 dB(A) 2) 3)	External earthing terminal	Without
Moment of inertia	0.0041 kg m²		Vibration severity grade	A
Bearing DE | NDE	6306 Z C3	6206 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE | NDE	5 g | 5 g 8000 h		Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	25 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

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) L_{10mh} 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 department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

INNOMOTICS

Document type	Document status
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Special design

L22	Bearing design for increased cantilever forces	L23	Regreasing system