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

Motor type : 1AV3130B **INNOMOTICS GP - 132 S - IM B5 - 4p**

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)																	
230	Δ	50	5.50	-/-	18.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
400	Y	50	5.50	-/-	10.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
460	Y	60	6.30	-/-	10.40	1770	34.0	91.7	92.0	91.3	0.83	0.79	0.69	8.7	2.7	3.7	IE3
460	Y	60	5.50	-/-	9.30	1775	29.5	91.7	91.6	90.5	0.81	0.76	0.65	10.0	3.1	4.2	IE3
IM B5 / IM 3001			FS 132 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 22.8 s | 29.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	64 / 76 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0340 kg m²	Thermal class	F
Bearing DE | NDE	6208 2Z C3 / 6208 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)	54 kg
Grease nipple	-/-	Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE	Color, paint shade	RAL7030
Condensate drainage holes	Without	Motor protection	(K) 1 Pt1000 resistance thermometer(2 terminals)
External earthing terminal	Without	Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	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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D47+F01+F11+F70+G11	

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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	F70	Mounting of separately driven fan
F01	Mounting of holding brake	G11	Rotary pulse encoder Sendix 5020 (HTL)
F11	Brake supply voltage, 230 V AC, 50/60 Hz		

Additional information:

Brake:

Description:	BFK458-16	Current:	.27 A
Voltage:	AC 230 V	Moment of inertia:	0.001500 kgm²