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

Motor type : 1CV3131A **INNOMOTICS SD - 132 S - IM V1 - 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	7.50	-/-	13.10	2950	24.5	90.1	91.0	91.0	0.92	0.90	0.84	8.3	1.9	3.9	IE3
690	Y	50	7.50	-/-	7.60	2950	24.5	90.1	91.0	91.0	0.92	0.90	0.84	8.3	1.9	3.9	IE3
460	Δ	60	8.60	-/-	13.00	3550	23.0	90.2	90.8	90.5	0.92	0.90	0.84	8.2	2.0	3.9	IE3
460	Δ	60	7.50	-/-	11.50	3560	20.0	90.2	90.4	89.6	0.91	0.88	0.82	9.4	2.2	4.5	IE3
IM V1 / IM 3011		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) : 9.3 s | 13.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	68 / 80 dB(A) 2) 3)	72 / 84 dB(A) 2) 3)	
Moment of inertia	0.0310 kg m²		
Bearing DE | NDE	6308 Z C3	6308 Z C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	20000 h	16000 h	
Relubrication interval/quantity DE | NDE	10 g | 10 g 8000 h		
Lubricants	Unirex N3		
Regreasing device	With		
Grease nipple	M8x1 DIN 71412		
Type of bearing	Preloaded bearing DE		
Condensate drainage holes	With (standard)		

External earthing terminal	With
Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	73 kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H01	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		

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Document type	Document status
Technical data sheet	Released
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H00+H04+L23+Q02	

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Special design

H00	Canopy	L23	Regreasing system
H04	External grounding at housing	Q02	Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

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