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

Motor type : 1CV3222B **INNOMOTICS SD - 225 M - IM B3 - 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)																	
400	Δ	50	45.00	-/-	80.00	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
690	Y	50	45.00	-/-	46.50	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
460	Δ	60	52.00	-/-	81.00	1778	280.0	94.1	94.7	94.8	0.86	0.84	0.77	6.8	2.6	2.6	IE2
460	Δ	60	45.00	-/-	70.00	1782	240.0	95.0	95.3	95.1	0.85	0.81	0.73	7.7	3.0	3.0	IE3
IM B3 / IM 1001		FS 225 M		IP65	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN										

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 33.7 s | 53.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65 / 78 dB(A) 2) 3)	68 / 82 dB(A) 2) 3)	
Moment of inertia	0.5200 kg m²		
Bearing DE | NDE	6213 Z C3	6213 Z C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Regreasing device	Without		
Grease nipple	-/-		
Type of bearing	Locating bearing DE		
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		
Condensate drainage holes	With (standard)		
External earthing terminal	With (standard)		

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)	340 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department	Technical reference	Created by	Approved by	
IN LVM		SPC	Created automatically	***Technical data are subject to change! There may be discrepancies between calculated and rating plate values.***

Link documents

INNOMOTICS

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE1503-2BB23-4AB4-Z **B02+H20+L51**	TDS-241121-160838

Restricted	Revision	Creation date	Language	Page
© Innomotics 2024	AA	2024-11-21	en	1/2

Branding disclaimer applies

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

Motor type : 1CV3222B **INNOMOTICS SD - 225 M - IM B3 - 4p**

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
H20	IP 65 degree of protection		

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Branding disclaimer applies