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



2024-09-23

Motor type: 1CV3315B INNOMOTICS SD - 315 L - IM V1 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area Electrical data -/η 3) U Δ/Υ f Р Р 1 М cosφ ³⁾ I_A/I_N M_A/M_N M_K/M_N IE-CL n [V] [Hz] [kW] [A] [1/min] [Nm] 4/4 3/4 T_I/T_N T_B/T_N [hp] 2/4 4/4 3/4 2/4 I_I/I_N **DOL duty (S1)** - 155(F) to 130(B) 400 Δ 50 200.00 340.00 1488 1280.0 96.0 96.3 96.1 0.88 0.86 0.79 7.4 3.2 3.0 IE3 690 -/-0.86 50 200.00 198.00 1488 1280.0 96.0 96.3 96.1 0.88 0.79 7.4 3.2 3.0 IE3 Δ 60 230.00 -/-345.00 1788 1230.0 95.4 95.6 95.3 7.5 460 0.88 0.86 0.80 3.1 2.8 IE2 Δ 96.2 95.5 IE3 200.00 -1-300.00 1791 1070.0 96.2 0.75 8.7 3.5 3.2 460 60 0.87 0.84 IM V1 / IM 3011 IEC/EN 60034 FS 315 L IP55 UKCA IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 22.5 s | 45.4 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 73 / 87 dB(A) ^{2) 3)} 78 / 93 dB(A) 2) 3) With (standard) External earthing terminal Moment of inertia 3.7000 kg m² Vibration severity grade Bearing DE | NDE 6319 C3 6319 C3 Thermal class F bearing lifetime Duty type S1 L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz $^{1)}$ 20000 h 16000 h Direction of rotation bidirectional 40 g | 40 g 6000 h Relubrication interval/quantity DE | NDE Frame material cast iron Net weight of the motor (IM B3) 1190 kg Lubricants Unirex N3 Regreasing device With (standard) Special paint finish C3 Coating (paint finish) Grease nipple M10x1 DIN 3404 A Color, paint shade RAL7030 (H) 3 resistance thermometers PT100 (6 Type of bearing Locating bearing NDE Motor protection terminals) Condensate drainage holes With (standard) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position Max. cross-sectional area 150 mm² top Material of terminal box cast iron Cable diameter from ... to ... 38 mm - 45 mm Type of terminal box TB1 Q01 Cable entry 2xM63x1,5-2xM20x1,5 Contact screw thread M12 Cable gland 4 plugs 3) Value is valid only for DOL operation with motor design IC411 1) L_{10mh} according to DIN ISO 281 10/2010 IA/IN = locked rotor current / current nominal 2) at rated power / at full load $M_A/M_N = locked rotor torque / torque nominal$ $M_K/M_N = break down torque / nominal torque$ 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 Technical data are subject to change! There may be discrepancies between calculated and rating plate IN LVM SPC Created automatically Document type Document status Released INNOMOTICS Technical data sheet Document number 1LE1503-3AB53-4GH4-Z TDS-240923-125336 D22+Q01+Q02+Q72+R62+S02 Revision Creation date Language Restricted Page

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Special o						
D22	Motor without CE charen	aracter for export outside the EEA (see EU 1)	Q72	2 Pt100 resist	tance thermometers for bearings (4 terminals)
Q01		SPM shock pulse measurement to monitor bearings	R62	Cast iron auxi	iliary terminal box (small)	
Q02	Anti-condensation he	eating for 230 V (2 terminals)	S02	Special paint	finish C3	
Additio	nal information:					
Space he						
Technica	l data:	1-phase, 230 V 109W				
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