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



2024-03-26

Motor type: 1CV4316A SIMOTICS SD - 315 L - IM B3 - 2p 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] [hp] [A] [1/min] [Nm] 4/4 3/4 T_I/T_N T_B/T_N 2/4 4/4 3/4 2/4 I_I/I_N **DOL duty (S1)** - 155(F) to 130(B) 400 Δ 50 250.00 425.00 2986 800.0 96.5 96.4 95.7 0.88 0.85 0.77 9.3 3.0 4.2 IE4 690 250.00 -/-96.5 0.85 4.2 50 245.00 2986 800.0 96.4 95.7 0.88 0.77 9.3 3.0 IE4 Δ 95.8 250.00 -/-370.00 94.8 460 60 3588 670.0 96.2 0.88 0.84 0.76 11.0 4.1 4.6 IE4 Δ -/-60 280.00 415.00 750.0 95.9 95.1 0.88 0.85 0.78 9.6 3.7 IE4 460 3586 96.2 4.1 IM B3 / IM1001 FS 315 L IP55 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 31.1 s | 47.7 s Mechanical data Sound level (SPL / SWL) at 50Hz[60Hz 80 / 94 dB(A) 2) 3) 84 / 98 dB(A) 2) 3) Condensate drainage holes (Standard) Yes Moment of inertia 2.8200 kg m² External earthing terminal (Standard) Yes Bearing DE | NDE 6316 C4 6316 C4 Vibration severity grade Grade A permissible lateral force on (N) x₀: 5800 F x_{max}: 5200 Thermal class 5500 S1 bearing lifetime Duty type L_{10mh} F_{Rad min} for coupling operation 50I60Hz ¹⁾ 40000 h 32000 h Direction of rotation bidirectional Relubrication interval/quantity DE | 30 g | 30 g 3000 h Frame material cast iron UNIREX N3 1340 kg Lubricants Net weight of the motor Standard paint finish C2 Regreasing device Flat type lubricating nipple Coating (paint finish) Grease nipple M10x1 DIN 3404 A Color, paint shade RAL7030 Type of bearing Locating bearing DE Motor protection 3 PTC thermistors - for tripping (2 terminals) Bearing insulation DE / Bearing insulation NDE Yes (Non-drive end) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position box at the top, socket left Max. cross-sectional area 240 mm² Cable diameter from ... to ... 42 mm - 54 mm Material of terminal box cast iron Type of terminal box TB3Q61 Cable entry 2xM63x1,5 - 2xM20x1,5 Contact screw thread 6xM12 Cable gland 4 plugs 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411 IA/IN = locked rotor current / current nominal M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load 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 Technical data sheet **SIEMENS** Document number 1LE5504-3AA63-4AB0-Z TDS-240326-161019 L51 Rev. Creation date Language Page Restricted

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51 Bearing insulation	n NDE				
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