Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV4220B SIMOTICS SD - 225 S - IM B3 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area Electrical data -/cosφ ³⁾ U Δ/Υ f Р Р ī М η 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 4/4 2/4 I_I/I_N T_I/T_N T_B/T_N 2/4 3/4 **DOL duty (S1)** - 155(F) to 130(B) 400 Δ 50 37.00 67.00 1485 240.0 95.2 95.5 95.2 0.84 0.80 0.70 8.4 3.2 3.2 IE4 690 50 37.00 -/-38.50 1485 95.5 0.80 0.70 240.0 95.2 95.2 0.84 8.4 3.2 3.2 IE4 Δ 460 60 42.50 -/-66.00 1782 230.0 95.4 95.6 95.3 0.85 0.81 0.72 8.5 3.1 IE4 3.1 Δ -/-IE4 460 60 37.00 59.00 1786 198.0 95.4 95.4 94.8 0.83 0.78 0.68 9.8 3.6 3.6 IM B3 / IM 1001 FS 225 S UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 35.2 s | 46.8 s Mechanical data 69 / 82 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz 69 / 81 dB(A) 2) 3) Vibration severity grade Α Thermal class Moment of inertia 0.5200 kg m² Bearing DE | NDE 6213 Z C3 6213 Z 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 cast iron Regreasing device Without Net weight of the motor (IM B3) 345 kg Coating (paint finish) Standard paint finish C2 Grease nipple Locating bearing DE Color, paint shade RAL7030 Type of bearing Bearing insulation DE / Bearing insulation NDE Yes (non-drive end) Motor protection (B) 3 PTC thermistors - for tripping (2 terminals) Condensate drainage holes With (standard) Method of cooling IC411 - self ventilated, surface cooled External earthing terminal With (standard) Terminal box Terminal box position top Max. cross-sectional area 35 mm^2 Cable diameter from ... to ... Material of terminal box cast iron 27 mm - 35 mm TB1 L01 2xM50x1,5-2xM20x1,5 Type of terminal box Cable entry Contact screw thread M8 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 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

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