Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS INNOMOTICS SD Premium Insulation - 225 S - IM V5 - 8p Motor type : 1CV3220D 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 I_I/I_N T_I/T_N T_B/T_N 2/4 3/4 2/4 **DOL duty (S1)** - 155(F) to 130(B) 380 Δ 50 18.50 42.00 240.0 90.1 91.3 91.3 0.74 0.69 0.57 5.9 2.4 2.9 IE3 50 18.50 -/-24.50 0.69 0.57 2.9 IE3 660 732 240.0 90.1 91.3 91.3 0.74 5.9 2.4 Δ 440 60 22.00 -/-41.50 882 240.0 91.0 92.2 92.3 0.72 0.61 2.3 IE2 0.76 6.0 2.8 Δ IE3 440 60 18.50 37.50 886 199.0 90.2 90.8 90.2 0.72 0.66 0.54 6.7 2.8 3.3 IM V5 / IM 1011 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): 16.4 s | 24.6 s Mechanical data 56 / 70 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz 58 / 72 dB(A) 2) 3) Vibration severity grade Α Thermal class Moment of inertia 0.5020 kg m² F Bearing DE | NDE **S**1 6213 Z C3 6213 Z C3 Duty type bearing lifetime Direction of rotation bidirectional $L_{10mh}\,F_{Rad\,\,min}$ for coupling operation $50|60Hz^{\,1)}$ 20000 h 16000 h Frame material cast iron Regreasing device Without Net weight of the motor (IM B3) 270 kg Grease nipple Coating (paint finish) Standard paint finish C2 Locating bearing NDE Color, paint shade RAL7030 Type of bearing Condensate drainage holes With (standard) Motor protection (B) 3 PTC thermistors - for tripping (2 terminals) External earthing terminal With (standard) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position top Max. cross-sectional area $35 \ mm^2$ Material of terminal box cast iron Cable diameter from ... to ... 27 mm - 35 mm Type of terminal box TB1 L01 2xM50x1,5-2xM20x1,5 Cable entry М8 Contact screw thread Cable gland 4 plugs

 $I_A II_N =$ locked rotor current / current nominal $M_A / M_N =$ locked rotor torque / torque nominal $M_b / M_N =$ 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

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