Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type : 1CV4280B SIMOTICS SD - 280 S - IM B3 - 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 ī 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 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) 230 Δ 50 75.00 230.00 1490 480.0 96.0 96.1 95.6 0.85 0.81 0.70 9.2 3.4 3.8 IE4 400 50 75.00 -/-1490 0.85 0.81 0.70 133.00 480.0 96.0 96.1 95.6 9.2 3.4 3.8 IE4 Υ 460 60 86.00 -/-132.00 460.0 96.2 95.6 0.81 0.72 IE4 1788 96.2 0.85 9.1 3.4 3.6 Υ -/-96.2 4.0 IE4 460 60 75.00 116.00 1791 400.0 96.0 95.2 0.79 0.68 10.0 4.2 0.84 IM B3 / IM 1001 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN FS 280 S Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 29.9 s | 45.6 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 69 / 83 dB(A) 2) 3) 74 / 88 dB(A) 2) 3) External earthing terminal With (standard) Moment of inertia 1.7000 kg m² Vibration severity grade Bearing DE | NDE 6317 C3 6317 C3 Thermal class F bearing lifetime Duty type S1 $L_{10mh}\,F_{Rad\,\,min}$ for coupling operation $50|60Hz^{\,1)}$ 40000 h 32000 h Direction of rotation bidirectional 30 g | 30 g 8000 h Relubrication interval/quantity DE | NDE Frame material cast iron Net weight of the motor (IM B3) 670 kg Lubricants Unirex N3 Regreasing device With (standard) Coating (paint finish) Standard paint finish C2 Grease nipple M10x1 DIN 3404 A Color, paint shade RAL7030 Type of bearing Locating bearing NDE Motor protection (B) 3 PTC thermistors - for tripping (2 terminals) Condensate drainage holes With (standard) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position Max. cross-sectional area 120 mm² top 34 mm - 45 mm Material of terminal box cast iron Cable diameter from ... to ... Type of terminal box TB1 N01 Cable entry 2xM63x1,5-2xM20x1,5 Contact screw thread M10 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.

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