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



Motor type : 1AV3082B SIMOTICS GP - 80 M - IM B3 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area **Electrical data** -/η 3) Δ/Υ U 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 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) 230 Δ 50 0.55 2.20 1440 3.6 80.8 81.5 79.8 0.78 0.71 0.58 5.9 2.1 3.1 IE3 400 0.55 -/-1440 79.8 0.58 50 1.26 3.6 80.8 81.5 0.78 0.71 5.9 2.1 3.1 IE3 Υ 60 0.63 -/-1740 3.5 81.3 79.6 0.71 0.60 IE3 460 1.25 81.1 0.78 6.4 2.4 3.3 Υ -/-IE3 460 60 0.55 1.15 1750 3.0 80.9 78.6 0.74 0.67 0.55 6.9 2.7 3.8 81.1 IM B3 / IM 1001 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN FS 80 M Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 23.5 s | 28.3 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 53 / 64 dB(A) 2) 3) 55 / 66 dB(A) 2) 3) Vibration severity grade Α Moment of inertia 0.0021 kg m² Thermal class F Bearing DE | NDE 6004 2Z C3 6004 2Z 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 aluminum Regreasing device Without Net weight of the motor (IM B3) 11 kg Coating (paint finish) Standard paint finish C2 Grease nipple Preloaded bearing DE RAL7030 Type of bearing Color, paint shade Condensate drainage holes Without Motor protection (B) 1 PTC thermistor - for tripping (2 terminals) External earthing terminal Without Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position top Max. cross-sectional area 1.5 mm² Material of terminal box Aluminium Cable diameter from ... to ... 9 mm - 17 mm Type of terminal box TB1 E00 1xM25x1,5-1xM16x1,5 Cable entry Contact screw thread Μ4 Cable gland 2 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

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