Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Data sheet for three-phase Squirrel-Cage-Motors Motor type / Motor type: 1AV3112B SIMOTICS GP - 112 M - IM B5 - 4p Client order no. / Client order no. Item-No. / Item-No. Offer no. / Offer no. Order no. / Order no. Consignment no. / Consignment no. Project / Project Remarks / Remarks Safe Area Electrical data / 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 2/4 4/4 3/4 2/4 I_I/I_N T_I/T_N T_B/T_N **DOL duty (S1) / DOL duty (S1)** - 155(F) to 130(B) 400 Δ 50 4.00 7.90 1460 26.0 88.6 89.2 88.6 0.82 0.76 0.65 7.1 2.4 3.7 IE3 690 50 4.00 -1-88.6 0.76 0.65 7.1 2.4 3.7 IF3 4.60 1460 26.0 89.2 88.6 0.82 Δ 4.55 -/-89.5 89.3 460 60 7.70 1760 24.5 90.0 0.83 0.78 0.67 7.3 2.5 3.8 IF3 Δ 88.3 60 -1-21.5 89.5 90.0 IE3 460 4.00 6.90 1770 0.81 0.72 0.60 8.2 2.9 4.3 IM B5 / IM 3001 FS 112 M IP55 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions / Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold): 16.1 s | 21.8 s Mechanical data / Mechanical data Vibration severity grade Vibration severity grade Thermal class Sound level (SPL / SWL) at 50Hz|60Hz 58 / 70 dB(A) 2) 3) 62 / 74 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz A F Moment of inertia 0.0170 kg m² loment of inertic Thermal class Bearing DE | NDE Bearing DE | NDE Duty type 6206 2Z C3 6206 2Z C3 **S**1 Duty type Direction of rotation Direction of rotation bidirectional bearing lifetime I bearing lifetime bidirectional $L_{10mh}\,F_{Rad\,min}$ for coupling operation $50|60Hz^{\,1)}$ Frame material Frame material aluminum aluminum 40000 h 32000 h L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz Net weight of the motor (IM B3) 34 kg Net weight of the motor (IN B3) Coating (paint finish) Regreasing device Regreasing device Without Standard paint finish C2 Without Coating (paint finish) Standard paint finish C2 Grease nipple Color, paint shade -/-RAL7030 Grease nipple Color, paint shade Type of bearing Type of bearing Condensate drainage holes Preloaded bearing DE (F) 1 temperature sensor KTY84-130 (2 Motor protection Preloaded bearing DE terminals) Motor protection (F) 1 temperature sensor KTY84-130 (2 terminals) IC411 - self ventilated, surface cooled Without Method of cooling Condensate drainage holes Without External earthing terminal Without Method of cooling IC411 - self ventilated, surface cooled External earthing terminal Without Terminal box / Terminal box Terminal box position Max. cross-sectional area top 4 mm^2 Terminal box position Material of terminal box top Aluminium Max. cross-sectional area Cable diameter from ... to ... 11 mm - 21 mm Material of terminal box Type of terminal box Aluminium Cable diameter from ... to ... Cable entry TB1 F00 2xM32x1,5-1xM16x1,5 Cable entry Cable gland pe of terminal box Contact screw thread 3 plugs M4 Contact screw thread 3 plugs Cable gland 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 nomina M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load 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 Technical data are subject to change! There may be Responsible department Technical reference Created by Approved by Link documents discrepancies between calculated and rating plate IN LVM SPC Created automatically Document type Document status Released Technical data sheet 1LE1003-1BB23-4FF4-Z TDS-240318-095247 G11 Rev Creation date Language Page Restricted © Innomotics 2024 2024-03-18 en/en 1/2

| Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Data sheet for three-phase Squirrel-Cage-Motors | | | | | | | | |
|---|---------------------|------------|-----------------------------------|---------------|------------------------|---|--------------------|-------------|
| Motor type / Motor type : 1AV3112B | | | SIMOTICS GP - 112 M - IM B5 - 4p | | | | | |
| Special design / Special desig | | | | | • | | | |
| G11 Rotary pulse encoder S | | | | | | | | |
| notary parse encoder serie | III 3020 (III2) | | | | | | | |
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