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



Motor type : 1AV2073B SIMOTICS XP - 71 M - IM B14 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks II 3G Ex ec IIC T3 Gc **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 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 0.37 1.77 1380 2.5 72.7 73.2 69.9 0.72 0.63 0.49 4.0 2.5 2.5 IE2 50 0.37 -/-2.5 72.7 69.9 0.63 0.49 4.0 2.5 400 1.02 1380 73.2 0.72 2.5 IE2 Υ 60 0.43 -/-1.04 1680 2.5 72.0 72.4 69.4 0.63 0.50 4.5 460 0.72 2.6 2.7 IE2 Υ -/-71.2 60 0.37 0.96 1705 2.0 72.0 66.9 0.58 0.45 5.0 3.0 3.2 IE2 460 0.67 Converter duty (S9) - 155(F) to 130(B) Υ 49 5 .0128 .77 100 1.2 0.52 Υ 205 25 .14 .87 665 2.0 0.74 Type of Voltage source converter, general. converter Υ 0.68 380 50 .28 .86 1,415 1.9 380 Υ 100 .19 .57 2875 0.6 0.73IM B14 / IM 3601 FS 71 M IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions : $-20 \,^{\circ}\text{C} - +40 \,^{\circ}\text{C}$ / 1000 m Locked rotor time (hot / cold): 38.6 s | 49.4 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 44 / 55 dB(A) 2) 3) 47 / 58 dB(A) 2) 3) Vibration severity grade Α 0.0009 kg m² F Moment of inertia Thermal class Bearing DE | NDE 6202 27 C3 6202 2Z C3 **S1** Duty type bearing lifetime Direction of rotation bidirectional $L_{10mh}\,F_{Rad\,\,min}$ for coupling operation $50|60Hz^{\,1)}$ 40000 h 32000 h Frame material aluminum Without Net weight of the motor (IM B3) Regreasing device 7 kg Standard paint finish C2 Grease nipple -/-Coating (paint finish) Type of bearing Preloaded bearing DE Color, paint shade RAL7030 Condensate drainage holes Without 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 4 mm^2 Cable diameter from ... to ... 9 mm - 17 mm Material of terminal box Aluminium Type of terminal box TB1 B20 Cable entry 1xM25x1,5-1xM16x1,5 Contact screw thread Μ4 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 1MB1031-0CB32-2KB4-Z TDS-240618-120517

Revision

Creation date

2024-06-18

Language

Page

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Special design								
B43 Version for converte	r operation with operating	g data on voltage-source						
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