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



Motor type : 1AV2105B SIMOTICS GP - 100 L - IM B14 - 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 <sup>3)</sup>  $I_A/I_N$  $M_A/M_N$  $M_K/M_N$ 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 3.00 10.70 1455 19.7 85.5 86.4 85.6 0.82 0.76 0.64 6.9 2.0 3.1 IE2 400 3.00 -/-1455 19.7 85.5 0.76 50 6.20 86.4 85.6 0.82 0.64 6.9 2.0 3.1 IE2 Υ 460 60 3.45 -/-6.00 1755 18.8 87.5 88.2 87.3 0.77 0.65 7.5 2.0 IE2 0.82 3.1 Υ -1-5.40 IE2 460 60 3.00 1765 16.2 87.5 87.5 86.0 0.79 0.72 0.60 8.3 2.4 3.7 IM B14 / IM 3601 FS 100 L UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 9.8 s | 15 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 60 / 72 dB(A) 2) 3) 62 / 74 dB(A) 2) 3) Vibration severity grade Α Moment of inertia 0.0140 kg m<sup>2</sup> Thermal class F Bearing DE | NDE 6206 2Z C3 6206 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) 25 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 (A) without (Standard) External earthing terminal Without Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position top Max. cross-sectional area 4 mm<sup>2</sup> Material of terminal box Aluminium Cable diameter from ... to ... 11 mm - 21 mm Type of terminal box TB1 F00 2xM32x1,5 Cable entry Contact screw thread Μ4 Cable gland 2 plugs 1) L<sub>10mh</sub> 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<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal 2) at rated power / at full load M<sub>K</sub>/M<sub>N</sub> = 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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