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



SIMOTICS XP - 80 M - IM B14 - 2p Motor type : 1AV3082A Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks II 3G Ex ec IIC T3 Gc Electrical data -/η 3) Δ/Υ cosφ <sup>3)</sup> U f Р Р ī М  $I_A/I_N$  $M_A/M_N$  $M_K/M_N$ IE-CL n [V] [Hz] [kW] [hp] [A] [1/min] [Nm] 4/4 3/4 4/4 2/4  $I_I/I_N$  $T_I/T_N$  $T_B/T_N$ 2/4 3/4 **DOL duty (S1)** - 155(F) to 130(B) 230 Δ 50 0.75 2.70 2850 2.5 80.7 82.2 81.9 0.86 0.82 0.73 2.6 3.0 IE3 400 50 0.75 -/-1.56 0.82 3.0 2850 2.5 80.7 82.2 81.9 0.86 0.73 6.2 2.6 IE3 Υ 460 60 0.86 -/-3450 77.0 78.0 77.2 0.82 0.73 IE3 1.63 2.4 0.86 6.4 2.6 3.1 Υ -/-1.45 IE3 460 60 0.75 3480 2.0 77.0 77.2 75.7 0.84 0.79 0.70 7.1 3.0 3.6 IM B14 / IM 3601 FS 80 M IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 21.2 s | 27.9 s Mechanical data 60 / 71 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz 64 / 75 dB(A) 2) 3) Vibration severity grade Α Moment of inertia 0.0011 kg m<sup>2</sup> Thermal class F Bearing DE | NDE S1 6004 2Z C3 6004 2Z C3 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 Regreasing device Without Net weight of the motor (IM B3) 11 kg Special paint finish, resistant to salt-laden air C4 Coating (paint finish) Grease nipple Preloaded bearing DE Color, paint shade RAL7030 Type of bearing Condensate drainage holes Without Motor protection (A) without (Standard) External earthing terminal With (standard) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position top Max. cross-sectional area 1.5 mm<sup>2</sup> Material of terminal box Aluminium Cable diameter from ... to ... 9 mm - 17 mm Type of terminal box TB1 E00 1xM25x1,5 Cable entry Contact screw thread Μ4 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.

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Motor typ	e:1AV3082A		SIMOTICS XP	P - 80 M - IM B1	4 - 2p					
Special de	esign									
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