## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV3280B SIMOTICS XP - 280 S - IM B3 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks II 3D Ex tc IIIB T 120°C Dc **Electrical data** η 3) H Δ/Υ f Р Р 1 М cosφ <sup>3)</sup> $I_A/I_N$ $M_A/M_N$ $M_K/M_N$ IE-CL n [V] [Hz] [kW] [A] [1/min] [Nm] [hp] 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)** - 155(F) to 130(B) 400 50 75.00 133.00 1485 480.0 95.0 95.3 0.86 0.83 0.75 6.9 2.5 3.0 IE3 Converter duty (S9) - 155(F) to 130(B) 49 Δ 5 4.25 87 141 288 0.79 Δ 205 25 31 111 738 401 0.84 Type of Voltage source converter, general. converter Δ 359 0.85 380 50 56 105 1,488 380 Δ 100 45.5 100 2975 146 0.79 IM B3 / IM 1001 FS 280 S IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold): 29.7 s | 47.7 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 69 / 83 dB(A) 2) 3) 77 / 91 dB(A) 2) 3) External earthing terminal With (standard) Moment of inertia 1.3900 kg m<sup>2</sup> Vibration severity grade Α NU 317 Bearing DE | NDE 6317 C3 Thermal class bearing lifetime **S**1 Duty type $L_{10mh}\,F_{Rad\,min}$ for coupling operation 50|60Hz $^{1)}$ 40000 h 32000 h Direction of rotation bidirectional 30 g | 30 g 8000 h Relubrication interval/quantity DE | Frame material cast iron 570 kg Lubricants Unirex N3 Net weight of the motor (IM B3) Regreasing device With (standard) Coating (paint finish) Special paint finish C3 Grease nipple M10x1 DIN 3404 A Color, paint shade RAL7030 Type of bearing Locating bearing NDE Motor protection (B) 3 PTC thermistors - for tripping (2 terminals) Bearing insulation DE / Bearing insulation NDE Yes (non-drive end) IC411 - self ventilated, surface cooled Method of cooling With (standard) Condensate drainage holes Terminal box Terminal box position Max. cross-sectional area 120 mm<sup>2</sup> top Material of terminal box Cable diameter from ... to ... 34 mm - 45 mm cast iron Type of terminal box TB1 N01 Cable entry 2xM63x1.5-2xM20x1.5 Contact screw thread M10 Notes: 1) L<sub>10mh</sub> according to DIN ISO 281 10/2010 I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal 3) Value is valid only for DOL operation with motor design IC411 $M_A/M_N = locked rotor torque / torque nominal$ $M_K/M_N$ = break down torque / nominal torque responsible dep. technical reference created by approved by Technical data are subject to change! There may be discrepancies between calculated and rating plate IN LVM SPC values. document type document status released datasheet SIFMFNS document number 1MB1523-2DB09-0AB4-Z B02+B43+B91+L22+M4B+N31 creation date rev. language Page

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Motor type : 1CV3280B			SIMOTICS XP	SIMOTICS XP - 280 S - IM B3 - 4p				
pecial de	esign							
802	Acceptance test certif	icate 3.1 acc. to EN 10204		L22	Bearing design	n for increased cantilever forces		
43	Version for converter	operation with operating data	on voltage-source	M4B	400 VD for 50	Hz		
91	DC link converter  Documentation Packa	ge "Advanced"		N31		numidity/temperature with 60 to	100 g water per m3 air	
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