Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV3182B SIMOTICS SD - 180 M - IM B5 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area -/-**Electrical data** η 3) U Δ/Υ 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) 400 Δ 50 18.50 35.00 1470 120.0 92.6 93.1 92.9 0.82 0.77 0.68 7.2 2.5 3.3 IE3 690 50 18.50 -/-20.50 1470 92.6 120.0 93.1 92.9 0.82 0.77 0.68 7.2 2.5 3.3 IE3 Δ 60 21.30 -/-35.00 1770 92.4 92.8 92.4 0.79 0.70 7.2 IE2 460 115.0 0.83 2.4 3.2 Δ -/-92.7 IE3 460 60 18.50 30.50 1775 100.0 93.6 93.6 0.74 8.7 2.6 3.8 0.81 0.62 IM B5 / IM 3001 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN FS 180 M IP55 Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 28.7 s | 41.6 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 66 / 73 dB(A) 2) 3) 68 / 75 dB(A) 2) 3) External earthing terminal With (standard) Moment of inertia 0.1300 kg m<sup>2</sup> Vibration severity grade Bearing DE | NDE 6310 C3 6310 C3 Thermal class F bearing lifetime Duty type S1  $L_{10mh}$   $F_{Rad\ min}$  for coupling operation 50|60Hz  $^{1)}$ 40000 h 32000 h Direction of rotation bidirectional 15 g | 15 g 8000 h Relubrication interval/quantity DE | NDE Frame material cast iron Net weight of the motor (IM B3) 165 kg Lubricants Unirex N3 Regreasing device With regreasing nipple Coating (paint finish) Special paint finish C3 Grease nipple M10x1 DIN 71412 A Color, paint shade RAL7030 (B) 3 PTC thermistors - for tripping (standard) (2 Type of bearing Locating bearing NDE Motor protection terminals) Condensate drainage holes With (standard) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position Max. cross-sectional area  $16 \, \text{mm}^2$ top Material of terminal box cast iron Cable diameter from ... to ... 19 mm - 28 mm Type of terminal box TB1 J01 Cable entry 2xM40x1,5-1xM16x1,5 Contact screw thread M5 Cable gland 3 plugs

 $I_A/I_N = locked rotor current / current nominal$   $M_A/M_N = locked rotor torque / torque nominal$   $M_R/M_N = break down torque / nominal torque$ 

1) L<sub>10mh</sub> according to DIN ISO 281 10/2010 2) at rated power / at full load 3) Value is valid only for DOL operation with motor design IC411

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	1LE1603-1EB23-4FB4-Z			TDS-240312-145420				
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Special design								
L19 Regreasing device w	ith regreasing nipple M10	OX1 acc.to DIN 71412-A						
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