Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV4184B SIMOTICS SD - 180 L - 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 1 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) 380 Δ 50 22.00 43.50 1475 142.0 94.5 95.0 94.8 0.81 0.75 0.64 7.7 2.9 3.8 IE4 50 22.00 -/-25.00 1475 94.5 0.75 660 142.0 95.0 94.8 0.81 0.64 7.7 2.9 3.8 IE4 Δ 1775 440 60 25.30 -/-43.00 94.5 94.6 0.67 3.7 IE4 136.0 94.8 0.82 0.77 7.8 2.8 Δ -/-94.0 IE4 440 60 22.00 118.0 94.5 94.6 0.79 0.61 8.9 3.1 4.3 38.50 1778 0.73 IM B5 / IM 3001 IEC/EN 60034 IEC, DIN, ISO, VDE, EN Grade 2 FS 180 L UKCA Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 34.7 s | 48.1 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 62 / 75 dB(A) 2) 3) 76 / 87 dB(A) 2) 3) With (standard) External earthing terminal Moment of inertia 0.1800 kg m<sup>2</sup> Vibration severity grade Α Bearing DE | NDE 6310 C3 6310 C3 INS Thermal class 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) 192 kg Lubricants Unirex N3 Regreasing device Special paint finish C3 With regreasing nipple Coating (paint finish) 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) Bearing insulation DE / Bearing IC416 - separately ventilated, surface Yes (non-drive end) Method of cooling insulation NDE cooled Condensate drainage holes With (standard) Terminal box Terminal box position 25 mm<sup>2</sup> top Max. cross-sectional area Material of terminal box cast iron Cable diameter from ... to .. 27 mm - 35 mm 2xM50x1,5-1xM16x1,5 Type of terminal box TB1 L61 Cable entry Contact screw thread М6 Cable gland 1 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 2) at rated power / at full load M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  $M_K/M_N = break down torque / nominal torque$ 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

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SIEMENS	Technical data sheet				Released			
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	1LE1604-1EB43-3FB4-Z			TDS-240406-194536				
Restricted	B02+D34+F70+G04+H70+L19+L51+R15+R50+R52+R62				Revision	Creation date	Language	Page
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## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



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Special design				
B02	Acceptance test certificate 3.1 acc. to EN 10204		Bearing insulation NDE	
D34	China Energy Efficiency Label	R15	One metal cable gland	
F70	Mounting of separately driven fan	R50	Larger terminal box	
G04	Mounted rotary pulse encoder LL 861 900 220	R52	Drilled removable entry plate	
H70	Second outer earthing	R62	Cast iron auxiliary terminal box (small)	
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A			

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