Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV4164B SIMOTICS SD - 160 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  $I_I/I_N$  $T_I/T_N$  $T_B/T_N$ 2/4 4/4 3/4 2/4 **DOL duty (S1)** - 155(F) to 130(B) 380 Δ 50 15.00 30.50 1480 97.0 93.9 94.0 93.3 0.80 0.74 0.62 7.8 3.7 4.3 IE4 50 15.00 -/-17.50 0.74 660 1480 97.0 93.9 94.0 93.3 0.80 0.62 7.8 3.7 4.3 IE4 Δ 440 60 17.30 -/-29.50 1780 94.5 0.76 0.64 7.9 4.2 IE4 93.0 94.6 94.0 0.81 3.4 Δ IE4 440 60 -1-1780 80.0 94.0 93.0 0.79 0.60 8.8 3.9 4.8 15.00 26.50 94.1 0.72 Grade 2 IM B5 / IM 3001 IEC/EN 60034 IEC, DIN, ISO, VDE, EN FS 160 L UKCA Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 32.2 s | 42.5 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 63 / 76 dB(A) 2) 3) With 66 / 79 dB(A) 2) 3) External earthing terminal Moment of inertia 0.0990 kg m<sup>2</sup> Vibration severity grade Α Bearing DE | NDE 6309 Z C3 6309 Z 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 10 g | 10 g 8000 h Relubrication interval/quantity DE | NDE Frame material cast iron Net weight of the motor (IM B3) 138 kg Lubricants Unirex N3 Regreasing device With (standard) Special paint finish C3 Coating (paint finish) M8x1 DIN 71412 Color, paint shade RAL7030 Grease nipple (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 16 mm<sup>2</sup> top Max. cross-sectional area Material of terminal box cast iron Cable diameter from ... to .. 19 mm - 28 mm 2xM40x1,5-1xM16x1,5 Type of terminal box TB1 K01 Cable entry Contact screw thread М5 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 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal 2) at rated power / at full load  $M_K/M_N = break down torque / nominal torque$ 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			
	Document title			Document number				
	1LE1604-1DB43-3FB4-Z			TDS-240329-101253				
Restricted	B02+D34+F70+G04+H04+H70+L51+R15+R50+R62			Revision	Creation date	Language	Page	
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Specia	l design		
B02	Acceptance test certificate 3.1 acc. to EN 10204	H70 Sec	cond outer earthing
D34	China Energy Efficiency Label	L51 Bea	aring insulation NDE
F70	Mounting of separately driven fan	R15 On	e metal cable gland
G04	Mounted rotary pulse encoder LL 861 900 220	R50 Lar	ger terminal box
H04	External grounding at housing	R62 Cas	st iron auxiliary terminal box (small)
I			

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