Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type: 1CV4112B SIMOTICS SD - 112 M - IM B5 - 4p Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area **Electrical data** -/-Δ/Υ cosφ ³⁾ U f Р Р ī М η ³⁾ 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) 380 Δ 50 4.00 8.20 1465 26.0 91.1 91.6 91.0 0.81 0.75 0.63 8.3 3.1 4.3 IE4 50 4.00 -/-1465 0.75 0.63 4.3 IE4 660 4.75 26.0 91.1 91.6 91.0 0.81 8.3 3.1 Δ 440 60 4.55 -/-8.00 1765 91.0 91.3 90.6 0.76 0.65 8.5 3.0 4.3 IE4 24.5 0.82 Δ -/-0.78 IE4 440 60 3.70 6.80 1770 20.0 91.0 90.8 89.5 0.71 0.58 10.0 3.7 5.4 IM B5 / IM 3001 FS 112 M UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Grade 2 Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 20.5 s | 26.1 s Mechanical data 65 / 77 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz 68 / 80 dB(A) 2) 3) Vibration severity grade Α Thermal class Moment of inertia 0.0200 kg m² Bearing DE | NDE 6306 2Z C3 6306 2Z C3 INS Duty type S1 bearing lifetime Direction of rotation bidirectional $L_{10mh}\,F_{Rad\,\,min}$ for coupling operation $50|60Hz^{\,1)}$ 40000 h 32000 h Frame material cast iron Regreasing device Without Net weight of the motor (IM B3) 58 kg Coating (paint finish) Special paint finish C3 Grease nipple Preloaded bearing DE Color, paint shade RAL7030 Type of bearing Bearing insulation DE / Bearing insulation NDE (B) 3 PTC thermistors - for tripping (standard) (2 terminals) Yes (non-drive end) Motor protection IC416 - separately ventilated, surface cooled Condensate drainage holes With (standard) Method of cooling External earthing terminal With Terminal box Terminal box position top Max. cross-sectional area 4 mm^2 Material of terminal box cast iron Cable diameter from ... to ... 11 mm - 21 mm TB1 J01 2xM32x1,5-1xM16x1,5 Type of terminal box Cable entry Contact screw thread M4 Cable gland 1 gland, 2 plugs 1) L_{10mh} 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_A/M_N = 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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	Document type			Document status				
SIEMENS	Technical data sheet			Released				
	Document title			Document number				
	1LE1604-1BB23-3FB4-Z			TDS-240329-101712				
Restricted	B02+D34+F01+F12+F50+F70+G04+H04+H70+L51+R15+R50+R62			Revision	Creation date	Language	Page	
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Special design						
B02	Acceptance test certificate 3.1 acc. to EN 10204	H04	External grounding at housing			
D34	China Energy Efficiency Label	H70	Second outer earthing			
F01	Mounting of holding brake	L51	Bearing insulation NDE			
F12	Brake supply voltage 400 V AC, 50/60 Hz	R15	One metal cable gland			
F50	Mechanical manual brake release with lever (cannot be locked)	R50	Larger terminal box			
F70	Mounting of separately driven fan	R62	Cast iron auxiliary terminal box (small)			
G04	Mounted rotary pulse encoder LL 861 900 220					
l .						

Additional information:				
Brake:				
Description:	BFK458-14	Current:	0.28 A	
Voltage:	AC 400 V	Moment of inertia:	0.000630 kgm²	

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