Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type : 1CV4310C SIMOTICS SD - 315 S - IM B3 - 6p Offer no. Client order no. Item-No. Order no. Consignment no. Project Remarks Safe Area Electrical data -/η ³⁾ cosφ ³⁾ П Δ/Υ f Р Р ī М I_A/I_N M_A/M_N M_K/M_N IE-CL n [V] [Hz] [kW] [hp] [A] [1/min] [Nm] I_I/I_N T_I/T_N T_B/T_N 4/4 3/4 2/4 4/4 3/4 2/4 DOL duty (S1) - 180(H) to 130(B) 460 60 90.00 139.00 1192 720.0 95.8 96.0 0.85 0.81 0.72 2.5 3.3 IE4 IM B3 / IM1001 FS 315 S UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Locked rotor time (hot / cold) : 25 s | 34 s Environmental conditions: -20 °C - + °C / 1,000 m Mechanical data Sound level (SPL / SWL) at 50Hz[60Hz 63 / 77 dB(A) 2) 3) 65 / 79 dB(A) 2) 3) External earthing terminal (Standard) Yes Vibration severity grade Moment of inertia 3.1800 kg m² Grade A Bearing DE | NDE 6319 C3 6319 C3 Thermal class Н permissible lateral force on (N) x₀: 10600 x_{0,5}: 9900 S1 x_{max}: 9200 Duty type bidirectional Direction of rotation bearing lifetime $L_{10mh}\,F_{Rad\,min}$ for coupling operation $50|60Hz^{\,1)}$ -1-32000 h Frame material cast iron Lubricants 830 kg Net weight of the motor Regreasing device -/-Coating (paint finish) Standard paint finish C2 -/-Color, paint shade RAL7030 Grease nipple 1 resistance thermometer PT100 in stator winding - 2 wire (2 terminals) IC416 - separately ventilated, surface cooled Type of bearing Locating bearing DE Motor protection Bearing insulation DE / Bearing insulation NDE Yes (Non-drive end) Method of cooling Condensate drainage holes (Standard) Yes Terminal box Terminal box position 240 mm² box at the top Max. cross-sectional area Material of terminal box Cable diameter from ... to ... 38 mm - 45 mm cast iron Type of terminal box TB1Q01 Cable entry 2xM63x1,5 - 2xM20x1,5 Contact screw thread 6xM12 Cable gland 4 plugs Notes: 1) L_{10mh} according to DIN ISO 281 10/2010 I_A/I_N = locked rotor current / current nominal 3) Value is valid only for DOL operation with motor design IC411

M _s /M _N = locked rotor torque / torque nominal 2) at rated power / at full load M _s /M _N = break down torque / nominal torque								
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Special design				
B02	Acceptance test certificate 3.1 acc. to EN 10204	M1F	460 VD for 60 Hz, 60-Hz power	
F70	Mounting of separately driven fan	N11	Temperature class 180(H), and coolant temperature max. 60°C	
H02	Vibration-proof version	R11	Terminal box rotated through 90°, cable entry from NDE	
L51	Bearing insulation NDE	Y76	Mounting of HOG 10 DN 1024 l + centrifugal switch, (speed rpm), terminal box protection against dust	

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responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			Link docume	ents
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SIEMENS	datasheet				released			
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