Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS SIMOTICS SD - 315 L - IM B3 - 4p Motor type: 1CV4315B 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 n М cosφ ³⁾ I_A/I_N M_A/M_N M_K/M_N IE-CL [V] [Hz] [kW] [hp] [A] [1/min] [Nm] I_I/I_N T_I/T_N T_B/T_N 4/4 3/4 4/4 3/4 2/4 **DOL duty (S1)** - 155(F) to 130(B) 400 Δ 50 -/-IE4 -/-690 50 IF4 460 Δ 60 -/-IE4 Δ -/-60 IE4 460 IM B3 / IM1001 FS 315 L IP65 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -30 °C - + °C / m Locked rotor time (hot / cold): 26.6 s | 41.9 s Mechanical data Sound level (SPL / SWL) at 50Hz[60Hz 69 / 83 dB(A) 2) 3) 73 / 88 dB(A) 2) 3) External earthing terminal (Standard) Yes Moment of inertia 4.3700 kg m² Vibration severity grade Grade A Bearing DE | NDE 6319 C3 6319 C3 Thermal class F permissible lateral force on (N) x_{0,5}: 8650 S1 x₀: 9300 x_{max}: 8000 Duty type Direction of rotation bidirectional bearing lifetime $L_{10mh}\,F_{Rad\,min}$ for coupling operation $50|60Hz^{\,1)}$ 40000 h 32000 h Frame material cast iron Lubricants Net weight of the motor 1290 kg Regreasing device -/-Special paint finish C3 Coating (paint finish) Grease nipple -/-Color, paint shade RAL7030 6 resistance thermometers PT100 (12 terminals) Type of bearing Locating bearing DE Motor protection Bearing insulation DE / Bearing insulation NDE Yes (Non-drive end) Method of cooling IC411 - self ventilated, surface cooled 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 ... 34 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 3) Value is valid only for DOL operation with motor design IC411 I_A/I_N = locked rotor current / current nominal

$M_A/M_N =$ locked rotor torque / torque nominal $M_K/M_N =$ break down torque / nominal torque	2) at rated power	/ at full load						
responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			ents	
IN LVM		SPC						
	document type			document status				
SIEMENS	datasheet				released		200	
	title 1LE5504-3AB53-4AJ4-Z				document number			
	B02+B60+B61+D04+F74+G11+H20+L51+Q02+Q78+Q82+R62+S02+Y50			rev.	creation date	language	Page	
© INNOMOTICS 2023					951	2023-12-14	en	1/2

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4315B SIMOTICS SD - 315 L - IM B3 - 4p

Special design						
B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE			
B60	Document electrical datasheet	Q02	Anti-condensation heating for 230 V (2 terminals)			
B61	Document order dimension drawing	Q78	2 Pt100 resistance thermometers for bearing (6 terminals)			
D04	Minimum ambient temperature -30°C	Q82	Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery			
F74	Sheet steel fan cowl	R62	Cast iron auxiliary terminal box (small)			
G11	Rotary pulse encoder Sendix 5020 (HTL)	S02	Special paint finish C3			
H20	IP 65 degree of protection	Y50	Temperature class 155(F), utilized acc. to 130(B), customer indication of coolant temperature and/or installation altitude			

Additional information:

S١	oa	ce	ne	a	te	rs

Technical data: 1-phase, 230V, 218W

Notes:

responsible dep. IN LVM	technical reference	created by	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			ents
	document type				document status			
SIEMENS	datasheet				released			
SICIVICIAS	title				document number			
	1LE5504-3AB53-4AJ4-Z							
	B02+B60+B61+D04+F74+G11+H20+L51+Q02+Q78+Q82+R62+S02+Y50			rev.	creation date	language	Page	
© INNOMOTICS 2023					951	2023-12-14	en	2/2