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



2024-03-21

Motor type: 1CV4310A SIMOTICS SD - 315 S - IM B3 - 2p 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] [A] [1/min] [Nm] 4/4 3/4  $T_I/T_N$  $T_B/T_N$ [hp] 2/4 4/4 3/4 2/4  $I_I/I_N$ **DOL duty (S1)** - 155(F) to 130(B) 380 Δ 50 110.00 193.00 2988 350.0 96.0 95.9 95.1 0.90 0.88 0.82 9.1 2.5 3.7 IE4 -/-0.88 660 50 110.00 111.00 2988 350.0 96.0 95.9 95.1 0.90 0.82 9.1 2.5 3.7 IE4 Δ 110.00 -/-168.00 0.87 10.0 440 60 3588 295.0 95.4 94.9 93.6 0.90 0.81 2.8 4.0 IE4 Δ -/-186.00 123.00 0.83 9.1 2.6 IE4 440 60 3588 325.0 95.4 95.1 94.0 0.91 0.89 3.6 IM B3 / IM1001 FS 315 S IP55 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 29.9 s | 47.4 s Mechanical data Sound level (SPL / SWL) at 50Hz[60Hz 72 / 86 dB(A) 2) 3) 77 / 91 dB(A) 2) 3) Condensate drainage holes (Standard) Yes Moment of inertia 1.8400 kg m<sup>2</sup> External earthing terminal (Standard) Yes Bearing DE | NDE 6316 C3 6316 C3 Vibration severity grade Grade A permissible lateral force on (N) F x<sub>0</sub>: 5800 x<sub>max</sub>: 5200 Thermal class 5500 S1 bearing lifetime Duty type L<sub>10mh</sub> F<sub>Rad min</sub> for coupling operation 50I60Hz <sup>1)</sup> 40000 h 32000 h Direction of rotation bidirectional Relubrication interval/quantity DE | 30 g | 30 g 3000 h Frame material cast iron UNIREX N3 Lubricants Net weight of the motor 916 kg Regreasing device Flat type lubricating nipple Coating (paint finish) Standard paint finish C2 Grease nipple M10x1 DIN 3404 A Color, paint shade 6 PTC thermistors - for alarm and tripping (4 Type of bearing Locating bearing DE Motor protection terminals) Bearing insulation DE / Bearing insulation NDE Yes (Non-drive end) Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position at the right Max. cross-sectional area 240 mm<sup>2</sup> 44 mm - 54 mm Material of terminal box cast iron Cable diameter from ... to ... Type of terminal box TB1R01 Cable entry 2xM63x1,5 - 2xM20x1,5 Contact screw thread 6xM16 Cable gland 1 gland, 3 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 Responsible department Technical reference Created by Approved by Technical data are subject to change! There may be discrepancies between calculated and rating plate IN LVM SPC Created automatically Document type Document status Released Technical data sheet **SIEMENS** Document number 1LE5504-3AA03-3AC5-Z TDS-240321-183018 G04+G43+L51+R15+R50 Rev. Creation date Language Page Restricted

© Innomotics 2024

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



Motor type : 1CV4310A SIMOTICS SD - 315 S - IM B3 - 2p

Motor type	e:1CV4310A		SIMOTICS SD	- 315 S - IM I	B3 - 2p				
Special des	sign								
504	Mounted rotary pulse	e encoder LL 861 900 220	0	R15	One meta	l cable gland			
643	Mechanical protection	n for encoder		R50	Larger ter	minal box			
51	Bearing insulation NC	DE							
ransmittal, repro	oduction, dissemination and/o	r editing of this document as well	as utilization of its contents and con	nmunication thereof t	to others withou	t express authorizatio	n are prohibited. Offenders will	be held liable fo	r payment of
		or editing of this document as well registration of a utility model or de		nmunication thereof t	to others withou	t express authorizatio	n are prohibited. Offenders will	be held liable fo	r payment of
amages. All righ	ts created by patent grant or re	registration of a utility model or de	sign patent are reserved.						
amages. All righ esponsible de	ts created by patent grant or re		created by	Approved by	Teo dis	chnical data are subj	n are prohibited. Offenders will ect to change! There may be calculated and rating plate	be held liable fo	
mages. All righ esponsible de	ts created by patent grant or re	registration of a utility model or de	created by		Teo dis	:hnical data are subj	ect to change! There may be calculated and rating plate		
esponsible de	ts created by patent grant or n	registration of a utility model or des	Created by SPC	Approved by	Teo dis	chnical data are subj crepancies between ues.	ect to change! There may be calculated and rating plate		
amages. All righ esponsible de N LVM	ts created by patent grant or re	Technical reference  Document type	Created by SPC	Approved by	Teo dis	chnical data are subj crepancies between ues.  Document	ect to change! There may be calculated and rating plate status		
amages. All righ esponsible de N LVM	ts created by patent grant or n	Technical reference  Document type Technical data shee Title 1LE5504-3AA03-3A	Created by SPC	Approved by	Teo dis	chnical data are subjected and subjected are	ect to change! There may be calculated and rating plate status		
amages. All righ esponsible de N LVM	ts created by patent grant or n	Technical reference  Document type Technical data shee	Created by SPC	Approved by	Teo dis	chnical data are subjected and subjected are	ect to change! There may be calculated and rating plate status		