SIEMENS

Data sheet

3RW5525-1HF04



SIRIUS soft starter 200-480 V 63 A, 24 V AC/DC Screw terminals Fail-safe

Figure similar

product brand name				
product category	Hybrid switching devices			
product designation	Failsafe soft starters			
product type designation	3RW55			
manufacturer's article number				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 of circuit breaker usable at 400 V 	3VA2163-7MN32-0AA0: Type of coordination 1, Iq = 65 kA. CLASS 10			
 of circuit breaker usable at 500 V 	3VA2163-7MN32-0AA0: Type of coordination 1. Iq = 20 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3830-6: Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1022-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3227: Type of coordination 2. Iq = 65 kA</u>			
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2046</u>			
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2046</u>			
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT1055</u>			
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT1055</u>			
General technical data				
starting voltage [%]	20 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 360 s			
ramp-down time of soft starter	0 360 s			
start torque [%]	10 100 %			
stopping torque [%]	10 100 %			
torque limitation [%]	20 200 %			
current limiting value [%] adjustable	125 800 %			
breakaway voltage [%] adjustable	40 100 %			
breakaway time adjustable	0 2 s			

number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
• CE marking	Yes
• UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
 for control circuit 	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/22/2019
product function	
 ramp-up (soft starting) 	Yes
 ramp-down (soft stop) 	Yes
 breakaway pulse 	Yes
 adjustable current limitation 	Yes
 creep speed in both directions of rotation 	Yes
 pump ramp down 	Yes
DC braking	Yes
motor heating	Yes
 slave pointer function 	Yes
• trace function	Yes
 intrinsic device protection 	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
● auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
 communication function 	Yes
 operating measured value display 	Yes
event list	Yes
• error logbook	Yes
• via software parameterizable	Yes
• via software configurable	Yes
screw terminal	Yes
 spring-loaded terminal 	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules

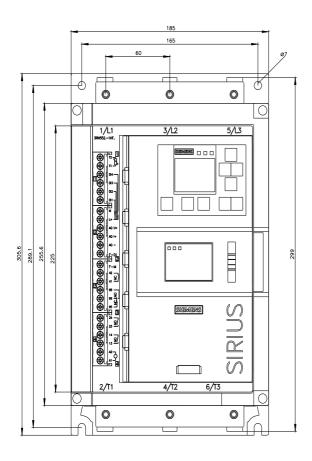
• irmware update Yes • cotage ramp Yes • torque control Yes • cotage ramp Yes • combined braking Yes • combined braking Yes • condition monitoring Yes • condition monitoring Yes • unotamic parameterisation Yes • unotamic parameterisation Yes • unotamic parameterisation Yes • energency operation mode Yes • other parameterisation Yes • outer provide of the average of	
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• at 400 V at inside-delta circuit at 40 °C rated value 55 kW	
Operating frequency 1 rated value 50 Hz	
Operating frequency 2 rated value 60 Hz	
relative negative tolerance of the operating frequency -10 %	
relative positive tolerance of the operating frequency 10 %	
minimum load [%] 10 %; Relative to set le	
power loss [W] for rated value of the current at AC	
• at 40 °C after startup 19 W	
• at 50 °C after startup 17 W	
• at 60 °C after startup 15 W	
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup 1 056 W	
• at 50 °C during startup 732 W	
• at 60 °C during startup 647 W Electronic tripping in the quart of thermal quarted of the mater	
type of the motor protection Electronic, tripping in the event of thermal overload of the motor	
Control circuit/ Control	
type of voltage of the control supply voltage AC/DC	
control supply voltage at AC	
at 50 Hz rated value 24 V	
• at 60 Hz rated value 24 V	
relative negative tolerance of the control supply voltage at -20 % AC at 50 Hz -20 %	
relative positive tolerance of the control supply voltage at 20 % AC at 50 Hz 20 %	
relative negative tolerance of the control supply voltage at -20 %	

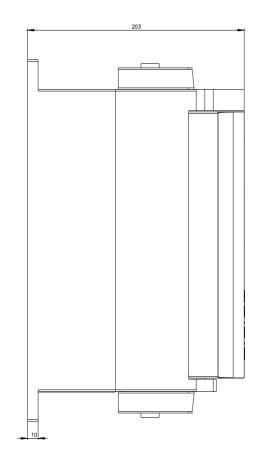
AC at 60 Hz	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage	-10 %
relative positive tolerance of the control supply voltage	10 %
control supply voltage	
• at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	870 mA
inrush current by closing the bypass contacts maximum	6.3 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
• with fail-safe	1
parameterizable	4
 number of digital outputs 	3
Number of digital outputs with fail-safe	1
 number of digital outputs parameterizable 	2
 number of digital outputs not parameterizable 	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
 at AC-15 at 250 V rated value 	3 A
• at DC-13 at 24 V rated value	1 A
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	5.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	box terminal
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
	20 11111
wire length for thermistor connection	
• with conductor cross spotion - 0 E mm ² maximum	50 m
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	50 m 150 m

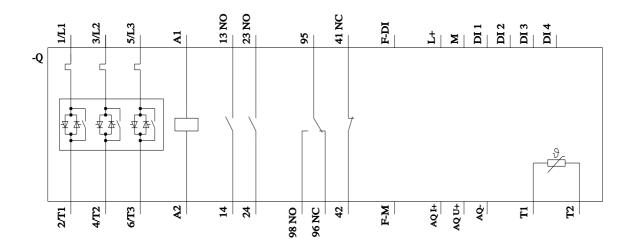
	with conductor cross-section = 2.5 mm ² maximum	250 m
charman contrasts for tox terminal using the foot charman contrasts for tox terminal using the for varial contrasts for tox terminal using the for varial contrasts for foot terminal using the foot terminal contrasts for foot terminal using the back charming point finally stranded with core end processing event south the foot terminal using the back charming point finally stranded with core end processing event south the foot contrast foot tox terminal using the back charming point stranded event terminal terminal using the back charming point stranded with core end processing event terminal terminal using the back charming point stranded with core end processing event terminal terminal using the tox event terminal terminal terminal terminal event terminal terminal terminal terminal event terminal terminal terminal terminal event terminal terminal terminal terminal event terminal terminal terminal terminal terminal event terminal terminal terminal terminal event terminal terminal terminal terminal event terminal terminal terminal terminal terminal event terminal terminal t	type of connectable conductor cross-sections	
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• for AVIC calles for main contacts for box terminal using both clamping points fields of box terminal using both clamping points fields what deal to box terminal using both clamping points fields what deal to box terminal using both clamping points fields what deal to box terminal using both clamping points fields what deal to box terminal using both clamping points fields what deal to box terminal using both clamping points fields what deal to box terminal using the back clamping points fields what doe end processing to the standard who core end processing to (5	•	1x (2.5 16 mm²)
or is sold 4.0 main contacts for box terminal using both clamping points finely stranded with core and processing 2x (2.5		1x (10 2/0)
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• for AWG cables for control circuit solid 1x (2012), 2x (2014) wire length 800 m • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 4.56 N m • for main contacts with screw-type terminals 4.56 N m • for main contacts with screw-type terminals 4053 lbfin • for main contacts with screw-type terminals 4053 lbfin • for main contacts with screw-type terminals 4053 lbfin • for main contacts with screw-type terminals 710.3 lbfin • for main control control control contacts with screw-type 2.000 m; Derating as of 1000 m, see catalog ambient temperature - • during storage and transport -40+80 "C; Please observe derating at temperatures of 40 "C or above • during storage according to IEC 60721 3K6 (noi te formation, only occasional condensation), 3C3 (no sait mist), 3S2 (sand must not get hinb the devices), 3M6 • during storage according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emited Interference - • PROFINET high-feature Yes • PROFINET standard Yes <td></td> <td></td>		
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• at the digital inputs at DC maximum 1 000 m fightening torque • for main contacts with screw-type terminals 4.5 6 N m • for auxiliary and control contacts with screw-type terminals 0.8 12 N m fightening torque [Ibf·In] • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals 40 53 lbf·in • for auxiliary and control contacts with screw-type terminals 40 53 lbf·in • for auxiliary and control contacts with screw-type terminals 2000 m; Derating as of 1000 m, see catalog Ambient conditions - Installation altitude at height above sea level maximum 20 00 m; Derating as of 1000 m, see catalog ambient temperature - during storage and transport -40 +80 °C • during storage and transport -40 +80 °C • during storage according to IEC 60721 3K6 (not loc domastion, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, (2C1, 2S1, 2M2, WC, and, fall height 0.3 m) EMC emitted Interference acc. to IEC 60947-4-2: Class A Communication/ Protocol Yes • PROFINET standard Yes • PROFINET standard Yes • PROFINET standard Yes • PROFINET standard Yes •	-	200 m
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 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for main contacts with screw-type terminals for main contacts with screw-type terminals for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for main storage according to IEC 60721 for for the devices), 100 m, becasional condensation), 1C2 (no salt mist), 3S2 (sand must not get inside the devices), 100 m, occasional condensation), 1C2 (no salt mist), 3S2 (san		1 000 m
• for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • auxiliary and control contacts with screw-type • auxiliary and control contacts • during aperation • during aperation according to IEC 60721 • during transport according to IEC 60721 • Auxiliary and auxiliary auxilia	tightening torque	
terminals Yes tightening torque [Ibf1n] • for axiliary and control contacts with screw-type terminals 40 53 lbf1in Ambient conditions 7 10.3 lbf1in installation altitude at height above sea level maximum 2 000 m; Derating as of 1000 m, see catalog ambient conditions -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference ac: to IEC 60974-4:2; Class A Communication/ Protocol Communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • RoCPIBUS Yes • DROFIBUS Yes • DROFIBUS Yes • Indefiber of standard Faults at 460/480 V according to UL Yes	 for main contacts with screw-type terminals 	4.5 6 N·m
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Ambient conditions installation altitude at height above sea level maximum 2 000 m; Derating as of 1000 m, see catalog ambient temperature - • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EME emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol Communication Protocol communication Protocol Yes • PROFINET high-feature Yes • PROFIBUS Yes • Modbus RTU Yes • PROFIBUS Yes • Indicaturer's article number o circuit breaker • usable for Standard Faults at 460/480 V according		
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environmental category during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes Ether high-feature Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes Ves PROFIBUS Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA 		°
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(sand must not get into thé devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference communication/Protocol communication module is supported • PROFINET standard • PROFINET high-feature Yes • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS Ves • PROFIBUS Ves • UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-		
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• during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol Communication module is supported • PROFINET standard Yes • PROFINET high-feature Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Yes • of circuit breaker Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; lq = 10 kA - usable for Standard Faults at 460/480 V at inside- Siemens type: 3VA51, max. 125 A; lq = 10 kA	• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
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Communication / Protocol communication module is supported • PROFINET standard Yes • PROFINET high-feature Yes • PROFINET high-feature Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; lq max = 65 kA - usable for Standard Faults at 460/480 V at inside- Siemens type: 3VA51, max. 125 A; lq = 10 kA		
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— usable for Standard Faults at 460/480 V at inside- Siemens type: 3VA51, max. 125 A; Iq = 10 kA	 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max, 125 A; lg max = 65 kA

 — usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA			
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA			
— usable for High Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA			
— usable for Standard Faults at 575/600 V at inside- delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA			
of the fuse				
— usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 200 A; lq = 10 kA			
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 225 A; lq = 100 kA			
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 200 A; lq = 10 kA			
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 225 A; Iq = 100 kA			
operating power [hp] for 3-phase motors				
 at 200/208 V at 50 °C rated value 	15 hp			
• at 220/230 V at 50 °C rated value	20 hp			
• at 460/480 V at 50 °C rated value	40 hp			
 at 200/208 V at inside-delta circuit at 50 °C rated value 	30 hp			
 at 220/230 V at inside-delta circuit at 50 °C rated value 	30 hp			
• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp			
contact rating of auxiliary contacts according to UL	R300-B300			
Safety related data	Time D			
safety device type according to IEC 61508-2	Туре В			
B10d value	1 000 000			
Safety Integrity Level (SIL)				
 according to IEC 61508 	SIL1			
SIL Claim Limit (subsystem) according to EN 62061	SIL 1			
performance level (PL) according to EN ISO 13849-1	C			
category according to EN ISO 13849-1	2			
stop category according to EN 60204-1	0			
Safe failure fraction (SFF)	60 %			
average diagnostic coverage level (DCavg)	90 %			
diagnostics test interval by internal test function maximum	1 000 s			
	1E-6 1/h			
PFHD with high demand rate according to EN 62061				
PFDavg with low demand rate according to IEC 61508	0.09			
hardware fault tolerance according to IEC 61508	0			
T1 value for proof test interval or service life according to IEC 61508	20 a			
safe state	Open load circuit			
protection class IP on the front according to IEC 60529	IP00; IP20 with cover			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover			
electromagnetic compatibility	acc. to IEC 60947-4-2			
ATEX				
certificate of suitability				
• ATEX	Yes			
• IECEx	Yes			
 according to ATEX directive 2014/34/EU 	BVS 18 ATEX F 003 X			
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]			
hardware fault tolerance according to IEC 61508 relating to ATEX	0			
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008			
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h			
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1			
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a			
Certificates/ approvals				
General Product Approval				

() E	<u>Confirmation</u>		TÜV	UL UL	EHC			
EMC For use in hazardous locations Declaration of Conformity Test Certificates Marine / Shipping								
RCM IECEX ATEX CEC EG-Konf.								
Marine / Shipping other								
EUREAU VERITAS								
https://press.siemens.c Siemens is working o Please contact your loo	I to exit the Russian marke com/global/en/pressrelease/ on the renewal of the curre cal Siemens office on the sta other than the sanctioned E/	siemens-wind-down-ru ent EAC certificates. atus of validity of the E	AC certification if you intend	d to import or offer to sup	oply these products to an			
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875								
Information- and Downloadcenter (Catalogs, Brochures,)								
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5525-1HF04 Cax online generator								
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	duct images, 2D dimension siemens.com/bilddb/cax_de			s, EPLAN macros,)				
Characteristic: Trippi	ng characteristics, I ² t, Let	-through current	•					
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5525-1HF04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)								
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