SIEMENS

Data sheet

3RW5213-1AC05



SIRIUS soft starter 200-600 V 13 A, 24 V AC/DC Screw terminals Analog output

SIRIUS
Hybrid switching devices
Soft starter
3RW52
3RW5980-0HS00
<u>3RW5980-0HF00</u>
3RW5980-0CS00
<u>3RW5980-0CP00</u>
<u>3RW5980-0CT00</u>
<u>3RW5980-0CR00</u>
<u>3RW5980-0CE00</u>
<u>3RV2032-4TA10;</u> Type of coordination 1, lq = 65 kA, CLASS 10
<u>3RV2032-4TA10;</u> Type of coordination 1, lq = 18 kA, CLASS 10
<u>3RV2032-4DA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<u>3RV2032-4DA10;</u> Type of coordination 1, Iq = 18 kA, CLASS 10
<u>3NA3820-6;</u> Type of coordination 1, Iq = 65 kA
<u>3NA3820-6;</u> Type of coordination 1, Iq = 65 kA
<u>3NE1815-0;</u> Type of coordination 2, Iq = 65 kA
<u>3NE8017-1;</u> Type of coordination 2, Iq = 65 kA
30 100 %
50 %; non-adjustable
0 20 s
130 700 %
Yes
Yes
Yes
No
Yes
Yes
Yes
3
CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

e for main ourrant aircuit	100 ms				
 for main current circuit for control circuit 	100 ms				
insulation voltage rated value					
	600 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 600 V				
service factor	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation	000.17				
between main and auxiliary circuit	600 V				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz				
utilization category according to IEC 60947-4-2	AC 53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	02/15/2018				
product function					
 ramp-up (soft starting) 	Yes				
 ramp-down (soft stop) 	Yes				
Soft Torque	Yes				
adjustable current limitation	Yes				
• pump ramp down	Yes				
intrinsic device protection	Yes				
 motor overload protection 	Yes; Electronic motor overload protection				
evaluation of thermistor motor protection	No				
inside-delta circuit	Yes				
auto-RESET	Yes				
manual RESET	Yes				
remote reset	Yes; By turning off the control supply voltage				
 communication function 	Yes				
 operating measured value display 	Yes; Only in conjunction with special accessories				
error logbook	Yes; Only in conjunction with special accessories				
 via software parameterizable 	No				
· via soltware parameterizable					
 via software parameterizable via software configurable 	Yes				
• via software configurable	Yes Yes; in connection with the PROFINET Standard communication				
 via software configurable PROFlenergy 	Yes Yes; in connection with the PROFINET Standard communication module				
 via software configurable PROFlenergy firmware update 	Yes Yes; in connection with the PROFINET Standard communication module Yes				
 via software configurable PROFlenergy firmware update removable terminal for control circuit 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value at 50 °C rated value at 40 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A				
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 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 40 °C rated value operational current at inside-delta circuit at 60 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V				
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 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 10 °C rated value at 100 °C rated value at 230 V at 40 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
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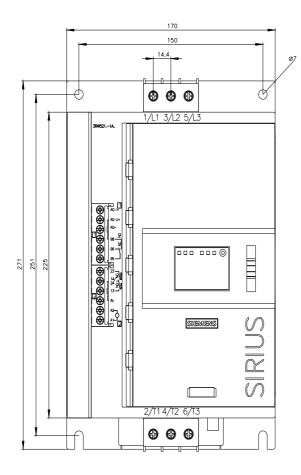
 at 500 V at inside-delta circuit at 40 °C rated value 	15 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	5.5 A
 at rotary coding switch on switch position 2 	6 A
 at rotary coding switch on switch position 3 	6.5 A
 at rotary coding switch on switch position 4 	7 A
 at rotary coding switch on switch position 5 	7.5 A
 at rotary coding switch on switch position 6 	8 A
 at rotary coding switch on switch position 7 	8.5 A
 at rotary coding switch on switch position 8 	9 A
 at rotary coding switch on switch position 9 	9.5 A
 at rotary coding switch on switch position 10 	10 A
 at rotary coding switch on switch position 11 	10.5 A
 at rotary coding switch on switch position 12 	11 A
 at rotary coding switch on switch position 13 	11.5 A
 at rotary coding switch on switch position 14 	12 A
 at rotary coding switch on switch position 15 	12.5 A
 at rotary coding switch on switch position 16 	13 A
• minimum	5.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	9.5 A
 for inside-delta circuit at rotary coding switch on switch position 2 	10.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	11.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	12.1 A
 for inside-delta circuit at rotary coding switch on switch position 5 	13 A
 for inside-delta circuit at rotary coding switch on switch position 6 	13.9 A
 for inside-delta circuit at rotary coding switch on switch position 7 	14.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 	15.6 A
 for inside-delta circuit at rotary coding switch on switch position 9 	16.5 A
 for inside-delta circuit at rotary coding switch on switch position 10 	17.3 A
 for inside-delta circuit at rotary coding switch on switch position 11 	18.2 A
 for inside-delta circuit at rotary coding switch on switch position 12 	19.1 A
 for inside-delta circuit at rotary coding switch on switch position 13 	19.9 A
 for inside-delta circuit at rotary coding switch on switch position 14 	20.8 A
 for inside-delta circuit at rotary coding switch on switch position 15 	21.7 A
 for inside-delta circuit at rotary coding switch on switch position 16 	22.5 A
 at inside-delta circuit minimum 	9.5 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	16 W
• at 50 °C after startup	15 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	210 W
• at 50 °C during startup	178 W
● at 60 °C during startup	161 W
Control circuit/ Control	

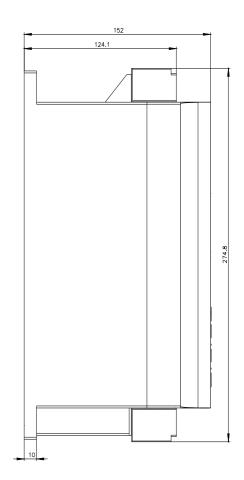
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
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 frequency	-10 %
relative positive tolerance of the control supply voltage frequency	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	160 mA
holding current in bypass operation rated value	360 mA
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 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
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on
	vertical mounting surface
fastening method	vertical mounting surface screw fixing
fastening method height	-
0	screw fixing
height	screw fixing 275 mm
height width	screw fixing 275 mm 170 mm
height width depth	screw fixing 275 mm 170 mm
height width depth required spacing with side-by-side mounting	screw fixing 275 mm 170 mm 152 mm
height width depth required spacing with side-by-side mounting • forwards	screw fixing 275 mm 170 mm 152 mm
height width depth required spacing with side-by-side mounting • forwards • backwards	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 75 mm 5 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 75 mm 5 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 75 mm 5 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit type of connectable conductor cross-sections	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
height width depth required spacing with side-by-side mounting forwards backwards backwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals
height width depth required spacing with side-by-side mounting	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)

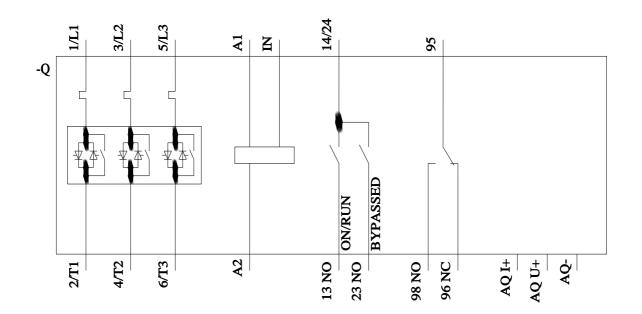
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
	2 2.5 N·m
for main contacts with screw-type terminals	
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	40 00 lbf :-
for main contacts with screw-type terminals	18 22 lbf·in
 for auxiliary and control contacts with screw-type terminale 	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 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
environmental category	
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
g -pg	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 inside the devices), 1M4
 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
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus RTUModbus TCP	Yes Yes
Modbus TCP	Yes
Modbus TCP PROFIBUS	Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V	Yes
Modbus TCP PROFIBUS 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	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65
Modbus TCP PROFIBUS 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	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
Modbus TCP PROFIBUS 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	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65
Modbus TCP PROFIBUS 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 Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65
Modbus TCP PROFIBUS 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 Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
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 Modbus TCP PROFIBUS 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 Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V at inside-delta circuit according to UL of the fuse 	Yes Yes Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA
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value • at 220/230 V at value	inside-delta circuit at 50) °C rated	5 hp			
• at 460/480 V at	inside-delta circuit at 50) °C rated	10 h	р		
value at 575/600 V at inside-delta circuit at 50 °C rated 		15 h	р			
	value contact rating of auxiliary contacts according to UL		R30(0-B300		
Safety related data			11000	0.0000		
	n the front according	to IEC	IP20	1		
touch protection on	the front according to	IEC 60529	finge	er-safe, for vertical conta	act from the front	
electromagnetic com	patibility		in ac	cordance with IEC 609	47-4-2	
Certificates/ approvals	5					
General Product App	proval					EMC
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Marine / Shipping	other					
A CONTRACTOR	Confirmation					
DBS						
rn3						
Further information						
	vnloadcenter (Catalog	gs, Brochures,)			
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https://mall.industry.sie	emens.com/mall/en/en/	Catalog/produc	:t?mlfb=	-3RW5213-1AC05		
Cax online generator						
				?lang=en&mlfb=3RW52	2 <u>13-1AC05</u>	
	anuals, Certificates, C					
https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC05 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC05⟨=en						
	ing characteristics, I ² f v.siemens.com/cs/ww/e					
Characteristic: Installation altitude						
http://www.automation	siemens com/bilddb/in	dex aspx?view	=Searc	h&mlfb=3RW5213-1AC	05&objecttype=14&aria	dview=view1

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1AC05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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