SIEMENS

Data sheet

3RW5227-3AC15



SIRIUS soft starter 200-600 V 93 A, 110-250 V AC spring-type terminals Analog output

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</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 	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 500 V 	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	<u>3NA3136-6;</u> Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3136-6;</u> Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1224-0;</u> Type of coordination 2, lq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE4124;</u> Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
 CSA approval 	Yes
product component	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	

- for main our at circuit	100 mg
for main current circuit	100 ms
• 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	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	200 V/
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 Yes
	res
via software configurable	
 Via software configurable PROFlenergy 	Yes; in connection with the PROFINET Standard communication module
PROFlenergy	Yes; in connection with the PROFINET Standard communication
-	Yes; in connection with the PROFINET Standard communication module
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	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)
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 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; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A
 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; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A
 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 operational current at inside-delta circuit 	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) 93 A 82.5 A 75.5 A
 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 at 40 °C rated value 	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) 93 A 82.5 A 75.5 A 161 A
 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 	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) 93 A 82.5 A 75.5 A 161 A 143 A
 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 40 °C rated value at 40 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value 	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) 93 A 82.5 A 75.5 A 161 A
 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 40 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A
 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 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V
 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 60 °C rated value 	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V
 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 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 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value 	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V -15 %
 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 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V -15 % 10 %
 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 at 50 °C rated value at 40 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value 	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V -15 %
 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 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V -15 % 10 %
 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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V -15 % 10 % -15 %
 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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V -15 % 10 % -15 %
 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 at 40 °C rated value at 60 °C rated value poperational current at inside-delta circuit at 40 °C rated value at 60 °C rated value preating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V -15 % 10 %
 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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value Inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %
 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 perating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 230 V at 40 °C rated value	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V 10 % -15 % 10 % 22 kW 45 kW
 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 60 °C rated value poperating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value	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) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %

 at 500 V at inside-delta circuit at 40 °C rated value 	110 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 	40.5 A
 at rotary coding switch on switch position 2 	44 A
 at rotary coding switch on switch position 3 	47.5 A
 at rotary coding switch on switch position 4 	51 A
 at rotary coding switch on switch position 5 	54.5 A
 at rotary coding switch on switch position 6 	58 A
 at rotary coding switch on switch position 7 	61.5 A
 at rotary coding switch on switch position 8 	65 A
 at rotary coding switch on switch position 9 	68.5 A
 at rotary coding switch on switch position 10 	72 A
 at rotary coding switch on switch position 11 	75.5 A
 at rotary coding switch on switch position 12 	79 A
 at rotary coding switch on switch position 13 	82.5 A
 at rotary coding switch on switch position 14 	86 A
 at rotary coding switch on switch position 15 	89.5 A
 at rotary coding switch on switch position 16 	93 A
• minimum	40.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	70.1 A
 for inside-delta circuit at rotary coding switch on 	76.2 A
switch position 2	
 for inside-delta circuit at rotary coding switch on switch position 3 	82.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	88.3 A
 for inside-delta circuit at rotary coding switch on switch position 5 	94.4 A
 for inside-delta circuit at rotary coding switch on switch position 6 	100 A
 for inside-delta circuit at rotary coding switch on switch position 7 	107 A
 for inside-delta circuit at rotary coding switch on switch position 8 	113 A
 for inside-delta circuit at rotary coding switch on switch position 9 	119 A
 for inside-delta circuit at rotary coding switch on switch position 10 	125 A
 for inside-delta circuit at rotary coding switch on switch position 11 	131 A
 for inside-delta circuit at rotary coding switch on switch position 12 	137 A
 for inside-delta circuit at rotary coding switch on switch position 13 	143 A
 for inside-delta circuit at rotary coding switch on switch position 14 	149 A
 for inside-delta circuit at rotary coding switch on switch position 15 	155 A
 for inside-delta circuit at rotary coding switch on switch position 16 	161 A
• at inside-delta circuit minimum	70.1 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	40 W
• at 50 °C after startup	37 W
• at 60 °C after startup	35 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	1 270 W
 at 50 °C during startup 	1 077 W
● at 60 °C during startup	959 W
Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
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 current in standby mode rated value	30 mA
holding current in bypass operation rated value	75 mA
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 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	
 switching capacity current of the relay outputs at AC-15 at 250 V rated value 	3 A
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	3 A 1 A
 switching capacity current of the relay outputs at AC-15 at 250 V rated value 	1 A
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards at the side weight without packaging Connections/ Terminals	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal spring-loaded terminals
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 control circuit width of connection bar maximum 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 for connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal spring-loaded terminals
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 for control circuit width of connectable conductor cross-sections for main contacts for box terminal using the front clamping point finely stranded with core end 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal spring-loaded terminals 25 mm
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 for connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.9 kg box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm²)
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method 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 for control circuit width of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front clamping point finely stranded with core end processing for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 10 mm 75 mm 5 mm 6.9 kg box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm ²) 1x (2.5 50 mm ²)

elemning point colid	
clamping point solidat AWG cables for main contacts for box terminal	1x (10 2/0)
using the back clamping point for main contacts for box terminal using both 	2x (2.5 16 mm²)
clamping points solid • for main contacts for box terminal using both	2x (2.5 35 mm²)
clamping points finely stranded with core end processing	2x (2.5 55 mm)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
type of connectable conductor cross-sections	
 for control circuit solid 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for control circuit solid 	2x (24 16)
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at AC maximum	100 m
tightening torque	45 61
 for main contacts with screw-type terminals for quiviliant and control contacts with acrow type 	4.5 6 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	40 53 lbf·in
 for auxiliary and control contacts with screw-type 	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
	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 TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
— usable for Standard Faults at 460/480 V	Ω is the set Ω / Λ Ed. (200) Λ Ω = Λ · Let Λ Ω = Λ
according to UL	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; lq max = 65 kA
 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 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA
 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 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA
 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- 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA

	ircuit according to UL					
of the fuse	Standard Fault (Turner	DISC USE	200 41 - 40 -	
according to l	 — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V 		Type: Class RK5 / K5, max. 300 A; lq = 10 kA			
according to UL		Type: Class J / L, max. 250 A; Iq = 100 kA				
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL		Type: Class RK5 / K5, max. 300 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. 250 A; Iq = 100 kA				
operating power [hp	•					
	50 °C rated value		25 hp			
	50 °C rated value		30 hp			
	50 °C rated value		60 hp			
	50 °C rated value		75 hp			
• at 200/208 V at	inside-delta circuit at 5	50 °C rated	40 hp			
	inside-delta circuit at 5	50 °C rated	50 hp			
value ● at 460/480 V at	inside-delta circuit at 5	50 °C rated	100 hp			
value	inside-delta circuit at 5		125 hp			
value			· ·			
	ciliary contacts accord	ding to UL	R300-B3	300		
Safety related data						
protection class IP o 60529	on the front according	to IEC	IP00; IP2	20 with cover		
-	the front according to	o IEC 60529	-		tact from the front with o	cover
electromagnetic con			In accord	dance with IEC 60	947-4-2	
Certificates/ approvals	5					
General Product Ap	proval					EMC
						-
	<u>Confirmation</u>				EHC	RCM
Declaration of Confe		CCC Test Certifica	ates N	UL UL	EHC	RCM
Declaration of Confe EG-Konf.		Test Certifica Type Test Cer ates/Test Re	rtific-	Luc Narine / Shipping		RCM
CE	ormity UK	Type Test Cer	rtific-	Aarine / Shipping	EFFC BUREAU VERITAS	RCM
CE EG-Konf.	ormity UK CA	Type Test Cer	rtific-	Aarine / Shipping	Image: Constraint of the second se	LIS
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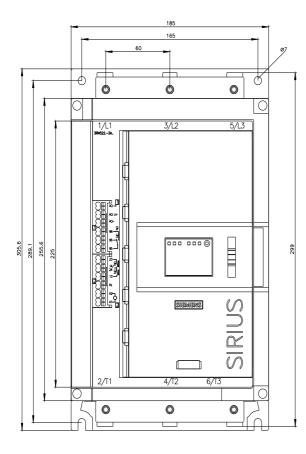
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5227-3AC15&lang=en

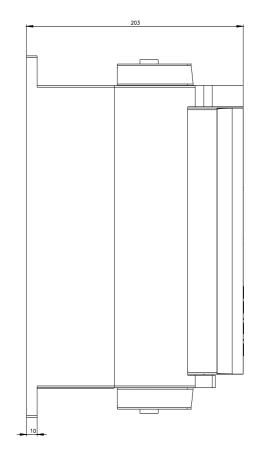
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-3AC15/char

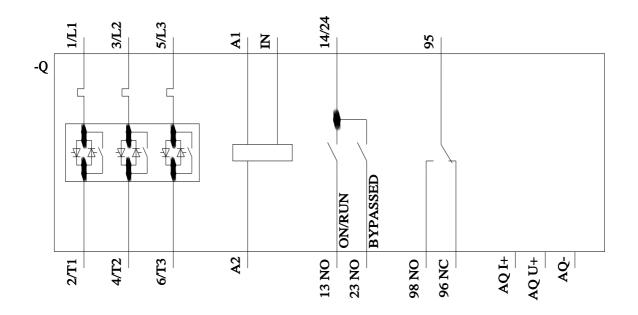
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5227-3AC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







last modified:

9/13/2022 🖸