## 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	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3136-6;</u> Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3136-6;</u> Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1224-0;</u> Type of coordination 2, lq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<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
<ul> <li>CSA approval</li> </ul>	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	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
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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	
<ul> <li>Via software configurable</li> <li>PROFlenergy</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes No
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	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)
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> 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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> </ul>	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
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> </ul>	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
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<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> </ul>	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
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<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>poperating voltage <ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> </ul> </li> <li>relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li>	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 %

<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	40.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	44 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	47.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	51 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	54.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	58 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	61.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	65 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	68.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	72 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	75.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	79 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	82.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	86 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	89.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	93 A
• minimum	40.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	70.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	76.2 A
switch position 2	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	82.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	88.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	94.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	100 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	107 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	113 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	119 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	125 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	131 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	137 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	143 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	149 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	155 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	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 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 270 W
<ul> <li>at 50 °C during startup</li> </ul>	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	
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	3 A 1 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> </ul>	1 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	
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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> </ul></li>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> </ul></li>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> </ul></li>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul></li>	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
<ul> <li>switching capacity current of the relay outputs         <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> </ul> </li> </ul>	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
<ul> <li>switching capacity current of the relay outputs         <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> </ul> </li> </ul>	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
<ul> <li>switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> </ul> </li> </ul>	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
<ul> <li>switching capacity current of the relay outputs         <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> </ul> </li> </ul>	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
<ul> <li>switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> </ul> </li> </ul>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> 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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> </ul>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for control circuit</li> <li>width of connection bar maximum</li> </ul>	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 <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front</li> </ul>	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
<ul> <li>switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> </ul> <li>Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end</li> </ul></li>	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
<ul> <li>switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> </ul> <li>Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front</li> </ul></li>	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)
<ul> <li>switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> </ul> <li>Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul></li>	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 <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> )

elemning point colid	
<ul><li>clamping point solid</li><li>at AWG cables for main contacts for box terminal</li></ul>	1x (10 2/0)
using the back clamping point <ul> <li>for main contacts for box terminal using both</li> </ul>	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)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at AC maximum	100 m
tightening torque	45 61
<ul> <li>for main contacts with screw-type terminals</li> <li>for quiviliant and control contacts with acrow type</li> </ul>	4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-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
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	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	$\Omega$ is the set $\Omega$ / $\Lambda$ Ed. (200) $\Lambda$ $\Omega$ = $\Lambda$ · Let $\Lambda$ $\Omega$ = $\Lambda$
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
<ul> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA
<ul> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </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
<ul> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-</li> </ul>	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	<ul> <li>— usable for Standard Faults up to 575/600 V</li> <li>according to UL</li> <li>— usable for High Faults up to 575/600 V</li> </ul>		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				
<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </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
EG-Konf. Marine / Shipping	ormity UK CA other Confirmation	<u>Type Test Cer</u> ates/Test Re	rtific- port	ABS	EEEE         UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	LIS
EG-Konf. Marine / Shipping Warine / Shipping Marine / Shipping Further information Information- and Dow https://www.siemens.or Industry Mall (Online https://mall.industry.si Cax online generatoo http://support.automat Service&Support (Mat	ormity UKCA other <u>Confirmation</u> wnloadcenter (Catalo <u>com/ic10</u> e ordering system) iemens.com/mall/en/en	<u>Type Test Cer</u> ates/Test Rej ogs, Brochures,. h/Catalog/product /CAXorder/defaul Characteristics,	rtific- port ) t?mlfb=3R\ t:aspx?lan FAQs,)	AB5	SZ27-3AC15	LIS

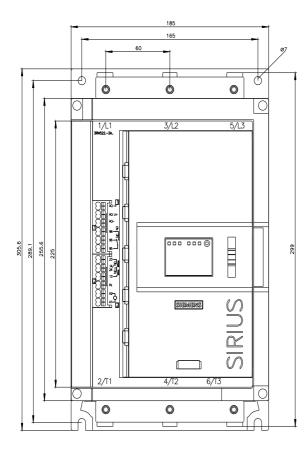
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5227-3AC15&lang=en

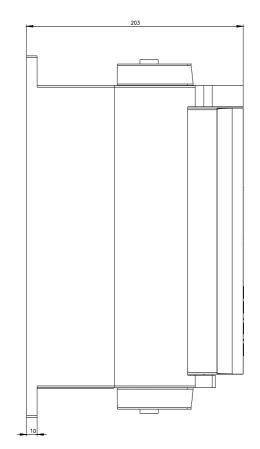
## Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-3AC15/char

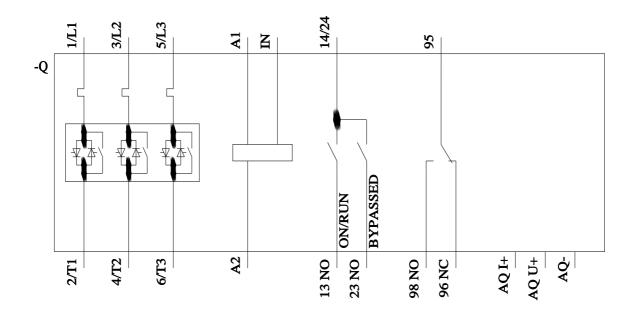
Characteristic: Installation altitude

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







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