## SIEMENS

## Data sheet

## 3RW5227-1AC15



SIRIUS soft starter 200-600 V 93 A, 110-250 V AC Screw 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>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2216-7MN32-0AA0; 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, Iq = 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> <li>UL approval</li> </ul>	Yes
<ul> <li>CSA approval</li> </ul>	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	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	

e for main ourrant aircuit	100 ms				
<ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>					
	100 ms 600 V				
insulation voltage rated value	3, acc. to IEC 60947-4-2				
degree of pollution					
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					
<ul> <li>between main and auxiliary circuit</li> </ul>	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					
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes				
<ul> <li>ramp-down (soft stop)</li> </ul>	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				
	Yes; Only in conjunction with special accessories				
error logbook	No				
via software parameterizable	Yes				
• via software configurable					
<ul> <li>via software configurable</li> <li>PROFlenergy</li> </ul>	Yes; in connection with the PROFINET Standard communication				
PROFlenergy	Yes; in connection with the PROFINET Standard communication module				
PROFlenergy     irmware update	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> </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				
<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				
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</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				
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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 operational current <ul> <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				
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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> </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				
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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> </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 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative 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>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> </ul>	Yes         Yes         Yes         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 %         22 kW         45 kW				
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• 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	
<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
at rotary coding switch on switch position 3	47.5 A
• at rotary coding switch on switch position 4	51 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	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
<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> <li>at rotary coding switch on switch position 14</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> <li>at rotary coding switch on switch position 10</li> </ul>	89.5 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>minimum</li> </ul>	93 A
<ul> <li>minimum</li> <li>adjustable motor current</li> </ul>	40.5 A
-	70.1 A
<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
<ul> <li>at inside-delta circuit minimum</li> </ul>	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 %	4.270.14/
at 40 °C during startup	1 270 W 1 077 W
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	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
<ul> <li>not parameterizable</li> </ul>	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
mumber of evolor outputs	1
number of analog outputs	
switching capacity current of the relay outputs	
<b>e</b> .	3 A
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	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 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	3 A 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	3 A 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> <li>fastening method</li> <li>height</li> </ul></li>	3 A 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> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> </ul></li>	3 A 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>	3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 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> </ul> </li> </ul>	3 A 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             <ul></ul></li></ul></li></ul>	3 A 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>	3 A 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>	3 A 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>	3 A 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
<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> </ul>	3 A 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 5 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>at the side</li> </ul> </li> <li>weight without packaging</li> </ul>	3 A 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	3 A 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 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	3 A 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 • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	3 A 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> </ul> weight without packaging Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> </ul>	3 A 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 screw-type 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 main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> </ul>	3 A 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> </ul> weight without packaging Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> </ul>	3 A 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 screw-type 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 solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end</li> </ul></li>	3 A 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 100 mm 75 mm 5 mm 6.9 kg box terminal screw-type 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 control circuit</li> <li>width of connection bar maximum</li> <li>type of connectable conductor cross-sections</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 stranded</li> </ul></li>	3 A 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 screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> )
<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 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> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul></li>	3 A 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 screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> )

clamping point solid				
<ul> <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 clamping points solid</li> </ul>	2x (2.5 16 mm²)			
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)			
<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>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
<ul> <li>at AWG cables for control circuit solid</li> </ul>	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			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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 terminals</li> </ul>	7 10.3 lbf·in			
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			
<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     PROFIBUS	Yes			
UL/CSA ratings	100			
obrook ratings				
manufacturer's article number				
manufacturer's article number ● of circuit breaker				
of circuit breaker     — usable for Standard Faults at 460/480 V	Siemens type: 3VA51, max. 125 A; lq = 10 kA			
of circuit breaker	Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA			
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according</li> </ul> </li> </ul>				
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA			
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <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> </li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA			
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <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> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V</li> </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			

Standard Faults up to JL High Faults up to 575// JL Standard Faults at insid 75/600 V according to High Faults at inside-d according to UL <b>1 for 3-phase motors</b> 50 °C rated value 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	500 V de-delta UL elta circuit up 50 °C rated	Type: Class J / L, Type: Class RK5	/ K5, max. 300 A; k max. 250 A; lq = 1 / K5, max. 300 A; k max. 250 A; lq = 1	00 kA q = 10 kA					
High Faults up to 575/ JL Standard Faults at insi 75/600 V according to High Faults at inside-d according to UL <b>] for 3-phase motors</b> 50 °C rated value 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5	de-delta UL elta circuit up 50 °C rated	Type: Class RK5 Type: Class J / L, 25 hp 30 hp 60 hp 75 hp 40 hp	/ K5, max. 300 A; lo	q = 10 kA					
Standard Faults at insi 75/600 V according to High Faults at inside-d according to UL <b>J for 3-phase motors</b> 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	UL elta circuit up 50 °C rated 50 °C rated	Type: Class J / L, 25 hp 30 hp 60 hp 75 hp 40 hp							
High Faults at inside-d according to UL <b>] for 3-phase motors</b> 50 °C rated value 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5	elta circuit up 50 °C rated 50 °C rated	25 hp 30 hp 60 hp 75 hp 40 hp	max. 250 A; lq = 1	00 kA					
50 °C rated value 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	30 hp 60 hp 75 hp 40 hp							
50 °C rated value 50 °C rated value 50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	30 hp 60 hp 75 hp 40 hp							
50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	30 hp 60 hp 75 hp 40 hp							
50 °C rated value 50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	60 hp 75 hp 40 hp							
50 °C rated value inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	75 hp 40 hp							
inside-delta circuit at 5 inside-delta circuit at 5	50 °C rated	40 hp							
inside-delta circuit at 5	50 °C rated								
		50 np			50 hp				
inside-delta circuit at 5	50 °C rated								
		100 hp							
inside-delta circuit at 5		125 hp							
iliary contacts accor	ding to UL	R300-B300							
n the front according	to IEC	IP00; IP20 with c	over						
the front according t	o IEC 60529	finger-safe, for ve	rtical contact from t	he front with cover					
npatibility		in accordance wit	h IEC 60947-4-2						
					MC				
provai				6	IVIC				
Orafination		-			•				
Contirmation	(m)	6		יחר					
	<u>m</u>		9 F	· HI	<u>(</u> )				
	ccc	UL			RCM				
ormity	Test Certifica	ites Marine / S	Shipping						
ormity	Test Certifica	ites Marine / S	Shipping						
ormity			Shipping		These				
ormity CE	Test Certifica Type Test Cer ates/Test Rep		Shipping		Lloyds				
CE			Shipping		Llovds Register				
C C C EG-Konf.					Hoyds Register us				
CE					Hoyds Kegister us				
CE					Lloyds Kegister us				
CE EG-Konf.					Lloyds Register uis				
CE					Hoyds Register urs				
CE EG-Konf.					Lloyds Kegister us				
CEG-Konf.					Lloyds Kegister us				
	n the front according	proval	iliary contacts according to UL R300-B300 R300-B300 IP00; IP20 with contacts according to IEC IP00; IP20 with contacts according to IEC 60529 IP00; IP20 with contact accor	A contacts according to UL R300-B300 Radia Radia Radi	R300-B300 R300-B300 R300-B300 IP00; IP20 with cover the front according to IEC 60529 mpatibility finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 proval				

 Further information

 Information- and Downloadcenter (Catalogs, Brochures,...)

 https://www.siemens.com/ic10

 Industry Mall (Online ordering system)

 https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5227-1AC15

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5227-1AC15

 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 http://support.industry.siemens.com/cs/ww/en/ps/3RW5227-1AC15

 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

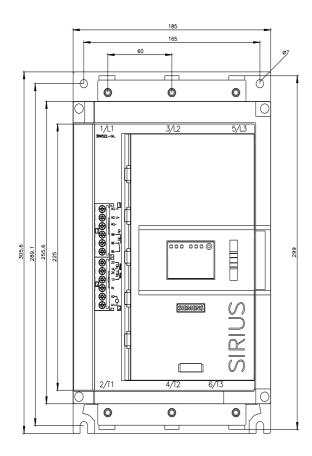
 http://www.automation.siemens.com/cs/ww/en/ps/3RW5227-1AC15&lang=en

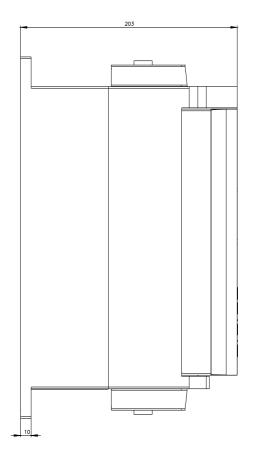
 Characteristic: Tripping characteristics, I²t, Let-through current

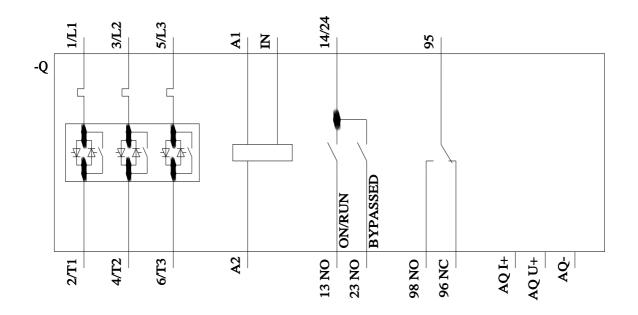
 https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-1AC15/char

 Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5227-1AC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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