## SIEMENS

## Data sheet

## 3RW5217-1AC15



SIRIUS soft starter 200-600 V 38 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>	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4WA10; 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>3RV2032-4RA10: Type of coordination 1. Iq = 65 kA. CLASS 10</u>	
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10</u>	
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; 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>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>	
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1820-0: Type of coordination 2. Iq = 65 kA</u>	
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>	
General technical data		
starting voltage [%]	30 100 %	
stopping voltage [%]	50 50 %	
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 is supported		
HMI-Standard	Yes	
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 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 service factor	1 600 V 1		
surge voltage resistance rated value	6 kV		
<ul> <li>maximum permissible voltage for safe isolation</li> <li>between main and auxiliary circuit</li> </ul>	600 V		
shock resistance			
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
utilization category acc. to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a		
reference code acc. to IEC 81346-2	AC 53a Q		
Substance Prohibitance (Date)	15.02.2018 00:00:00		
product function			
• ramp-up (soft starting)	Yes		
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes		
	Yes		
Soft Torque     adjustable current limitation			
adjustable current limitation	Yes		
• pump ramp down	Yes		
intrinsic device protection	Yes		
<ul> <li>motor overload protection</li> </ul>	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		
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories		
<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories		
<ul> <li>via software parameterizable</li> </ul>	No		
<ul> <li>via software configurable</li> </ul>	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
<ul> <li>firmware update</li> </ul>	Yes		
<ul> <li>removable terminal for control circuit</li> </ul>	Yes		
torque control	No		
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)		
Power Electronics			
operational current			
• at 40 °C rated value	38 A		
• at 50 °C rated value	34 A		
• at 60 °C rated value	31 A		
operational current at inside-delta circuit			
• at 40 °C rated value	65.8 A		
• at 50 °C rated value	58 A		
• at 60 °C rated value	52.8 A		
operating voltage			
rated value	200 600 V		
<ul> <li>at inside-delta circuit rated value</li> </ul>	200 600 V		
relative negative tolerance of the operating voltage	-15 %		
relative positive tolerance of the operating voltage	10 %		
relative negative tolerance of the operating voltage at	-15 %		
inside-delta circuit			

relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	11 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	22 kW
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	37 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	15.5 A
at rotary coding switch on switch position 1	17 A
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	18.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	20 A
at rotary coding switch on switch position 5	21.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	23 A
• at rotary coding switch on switch position 7	24.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	26 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	27.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	29 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	30.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	32 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	33.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	35 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	36.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	38 A
• minimum	15.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	26.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	29.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	32 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	34.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	37.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	39.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	42.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	45 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	47.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	50.2 A 52.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	52.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	58 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	60.6 A
<ul> <li>switch position 14</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	63.2 A
switch position 15	

<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	65.8 A		
switch position 16			
<ul> <li>at inside-delta circuit minimum</li> </ul>	26.8 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	23 W		
• at 50 °C after startup	22 W		
• at 60 °C after startup	21 W		
power loss [W] at AC at current limitation 350 %			
<ul> <li>at 40 °C during startup</li> </ul>	628 W		
<ul> <li>at 50 °C during startup</li> </ul>	526 W		
<ul> <li>at 60 °C during startup</li> </ul>	464 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 %		
	10 %		
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 70		
	-15 %		
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %		
relative positive tolerance of the control supply	- 10 %		
voltage at AC at 60 Hz			
control supply voltage frequency	- 50 60 Hz		
relative negative tolerance of the control supply	-10 %		
voltage frequency			
relative positive tolerance of the control supply voltage frequency	10 %		
control supply current in standby mode rated value	- 30 mA		
	75 mA		
holding current in bypass operation rated value			
locked-rotor current at close of bypass contact maximum	0.17 A		
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 inputs for thermistor connection	0		
number of digital outputs	3		
<b>C</b> .			
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>at AC-15 at 250 V rated value</li> </ul>	3 A		
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
	275 mm		
height			
width	170 mm		
depth	152 mm		
required spacing with side-by-side mounting			
<ul> <li>forwards</li> </ul>	10 mm		

h e el sue ade	0	
backwards	0 mm	
• upwards	100 mm	
• downwards	75 mm	
at the side	5 mm	
weight without packaging	2.3 kg	
Connections/ Terminals		
type of electrical connection <ul> <li>for main current circuit</li> </ul>		
	screw-type terminals	
for control circuit     type of connectable conductor cross-sections	screw-type terminals	
for main contacts		
- solid	$2x(40 - 25 mm^2) 2x(25 - 40 mm^2)$	
	$2x (1.0 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$	
<ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main current circuit solid</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8)	
type of connectable conductor cross-sections	ZA (10 12), ZA (17 0)	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> </ul>	$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$	
processing	1 (0.5 2.5 mm), 22 (0.5 1.5 mm)	
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)	
wire length		
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m	
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m	
tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 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>	18 22 lbf·in	
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in	
Ambient conditions		
	5 000 m; Derating as of 1000 m, see catalog	
Ambient conditions	5 000 m; Derating as of 1000 m, see catalog	
Ambient conditions installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul>	
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Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • EMC emitted interference	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • Communication/ Protocol         Communication module is supported         • PROFINET standard	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul>	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • Communication/ Protocol         communication module is supported         • PROFINET standard         • EtherNet/IP	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> Yes	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • Communication/ Protocol         Communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> </ul>	
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Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • Communication/ Protocol         Communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         UL/CSA ratings	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> Yes Yes Yes	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • Communication/ Protocol         Communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         UL/CSA ratings         manufacturer's article number	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> Yes Yes Yes	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         EMC emitted interference         Communication/ Protocol         communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         UL/CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> Yes Yes Yes Yes	
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721         EMC emitted interference         Communication/ Protocol         communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         UL/CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V according to UL         — usable for High Faults at 460/480 V according	<ul> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA</li> <li>Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65</li> </ul>	

delta circuit according to UL 							
according to UL define to UL de				107.10 70.1			
inside-delta circuit according to UL  I - usable for Standard Faults up to 575/600 V according to UL  L - usable for Standard Faults up to 575/600 V according to UL  L - usable for Standard Faults up to 575/600 V according to UL  L - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL  L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL  L - usable for Vision Faults at inside-delta circuit up to 575/600 V according to UL  Depending Dower (PI) for 3-phase motors  A t 200/208 V at 50 °C rated value  A t 200/208 V at 50 °C rated value  A t 220/230 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 460/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 450/480 V at inside-delta circuit at 50 °C rated value  A t 575/600 V at inside-delta circuit at 50 °C rated value  A t 575/600 V at inside-delta circuit at 50 °C rated value  A t 575/600 V at inside-delta circuit at 50 °C rated value  A t 575/600 V at inside-delta circuit at 50 °C rated value  A t 575/600 V at inside-delta circui			Siemens type: 3RV	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA			
			Siemens type: 3RV	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA			
according to UL       Type: Class J / L, max. 150 A; lq = 100 kA	<ul> <li>of the fuse</li> </ul>						
according to UL 			Type: Class RK5 /	K5, max. 150 A; Iq = 5 kA			
dreuit up to 575/600 V according to U - usable for High Faults at inside-delta circuit up to 5000 V according to U <b>per effective of the set of t</b>			Type: Class J / L, r	nax. 150 A; lq = 100 kA			
to 575/600 V according to UL     Index       operating power [thp] for 3-phase motors     10 hp       at 200/200 V at 50 °C rated value     10 hp       at 480/480 V at 50 °C rated value     20 hp       at 200/200 V at 50 °C rated value     20 hp       at 200/200 V at inside-delta circuit at 50 °C rated value     20 hp       at 420/400 V at inside-delta circuit at 50 °C rated value     20 hp       at 450/480 V at inside-delta circuit at 50 °C rated value     20 hp       at 450/480 V at inside-delta circuit at 50 °C rated value     20 hp       at 450/480 V at inside-delta circuit at 50 °C rated value     50 hp       at 457/600 V at inside-delta circuit at 50 °C rated value     50 hp       eat 657/600 V at inside-delta circuit at 50 °C rated value     120       at 657/600 V at inside-delta circuit at 50 °C rated value     50 hp       ecortact rating of auxillary contacts according to UL     R300-B300       Safety related data     120       protection class IP on the front acc. to IEC 60529     1P20       functor approvals     10 hp       cortificates/ approvals     10 hp       acc     10 hp       acc     10 hp			Type: Class RK5 /	Type: Class RK5 / K5, max. 150 A; lq = 5 kA			
• at 200/208 V at 50 °C rated value     10 hp       • at 220/230 V at 50 °C rated value     10 hp       • at 400/440 V at 50 °C rated value     20 hp       • at 200/208 V at inside-delta circuit at 50 °C rated value     30 hp       • at 200/208 V at inside-delta circuit at 50 °C rated value     20 hp       • at 400/440 V at 50 °C rated value     30 hp       • at 200/208 V at inside-delta circuit at 50 °C rated value     20 hp       • at 400/440 V at inside-delta circuit at 50 °C rated value     20 hp       • at 400/440 V at inside-delta circuit at 50 °C rated value     40 hp       • at 400/440 V at inside-delta circuit at 50 °C rated value     800-8300       • at 400/440 V at inside-delta circuit at 50 °C rated value     800-8300       • at trip of auxiliary contacts according to UL     8200-8300       • at protection class IP on the front acc. to IEC 60529     IP20       fordersides/ approval     Inger-safe, for vertical contact from the front       electromagnetic compatibility     in accordance with IEC 60947.4-2       cortificetes/ approval     Image: Safe, for vertical contact from the front       for formity     Image: Safe, for vertical contact from the front       for formity     Image: Safe, for vertical contact from the front       for formity     Image: Safe, for vertical contact from the front       for formity     Image: Safe, for vertical contact from the front       for	— usable for to 575/600 V	High Faults at inside-delta circuit up according to UL	Type: Class J / L, r	nax. 150 A; Iq = 100 kA			
• at 220/230 V at 50 °C rated value       10 hp         • at 440/480 V at 50 °C rated value       20 hp         • at 220/230 V at inside-delta circuit at 50 °C rated       30 hp         • at 220/230 V at inside-delta circuit at 50 °C rated       20 hp         • at 460/480 V at inside-delta circuit at 50 °C rated       20 hp         • at 460/480 V at inside-delta circuit at 50 °C rated       40 hp         • at 460/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 460/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 460/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 450/480 V at inside-delta circuit at 50 °C rated       50 hp         • at 55/500 V at inside-delta circuit at 50 °C rated       1920	operating power [hp	o] for 3-phase motors					
• at 480480 V at 50 °C rated value       20 hp         • at 575600 V at inside-delta circuit at 50 °C rated value       30 hp         • at 220/230 V at inside-delta circuit at 50 °C rated value       20 hp         • at 220/230 V at inside-delta circuit at 50 °C rated value       20 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       20 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       20 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       60 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       50 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       60 hp         • at 257600 V at inside-delta circuit at 50 °C rated value       10 P20         • at 257600 V at inside-delta circuit at 50 °C rated value       10 P20	• at 200/208 V a	t 50 °C rated value	10 hp				
• at 575/600 V at 50 °C rated value     30 hp       • at 202/203 V at inside-delta circuit at 50 °C rated value     20 hp       • at 220/230 V at inside-delta circuit at 50 °C rated value     20 hp       • at 450/480 V at inside-delta circuit at 50 °C rated value     40 hp       • at 575/600 V at inside-delta circuit at 50 °C rated value     40 hp       • at 575/600 V at inside-delta circuit at 50 °C rated value     50 hp       • at 575/600 V at inside-delta circuit at 50 °C rated value     50 hp       • contact rating of auxiliary contacts according to UL     R300-B300       • at 575/600 V at inside-delta circuit at 50 °C rated value     50 hp       • contact rating of auxiliary contacts according to UL     R300-B300       • at 575/600 V at inside-delta circuit at 50 °C rated value     15 hp       • protection calss IP on the front acc. to IEC 60529     IP20       fuence rate rating of auxiliary contacts according to UL     R300-B300       • at 575/600 V at inside-delta circuit at 50 °C rated value     IP20       fuence rating of auxiliary contacts according to UL     R300-B300       • at 575/600 V at inside-delta circuit at 50 °C rated value     IP20       fuence rate contact trains of the front acc. to IEC 60529     IP20       • at 575/600 V at inside-delta circuit at 50 °C rated value     IP20       • at 575/600 V at inside-delta circuit at 50 °C rated value     IP20       • at 575/600 V at inside-delta circuit	• at 220/230 V a	t 50 °C rated value					
• at 575/600 V at 50 °C rated value     30 hp       • at 200/208 V at inside-delta circuit at 50 °C rated value     15 hp       • at 220/230 V at inside-delta circuit at 50 °C rated value     20 hp       • at 450/480 V at inside-delta circuit at 50 °C rated value     40 hp       • at 4575/600 V at inside-delta circuit at 50 °C rated value     40 hp       • at 4575/600 V at inside-delta circuit at 50 °C rated value     50 hp       • at 4575/600 V at inside-delta circuit at 50 °C rated value     800-B300       • contact rating of auxiliary contacts according to UL     R300-B300       • atter value     90 hp       • protection class P on the front acc. to IEC 60529     IP20       four protection on the front acc. to IEC 60529     IP20       electromagnetic compatibility     in accordance with IEC 60947-4-2       • atter value     • on the front acc. to IEC 60529       electromagnetic compatibility     Image: See Net Net Net Net Net Net Net Net Net N	• at 460/480 V a	t 50 °C rated value	20 hp				
e at 200/208 V at inside-delta circuit at 50 °C rated value e. at 220/230 V at inside-delta circuit at 50 °C rated value e. at 460/480 V at inside-delta circuit at 50 °C rated value e. at 575/600 V at inside-delta circuit at 50 °C rated value e. at 575/600 V at inside-delta circuit at 50 °C rated value e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts according to UL e. R300-B300 e. contact rating of auxiliary contacts e. contact rating of auxiliary contacts e. contact rating contact e. contact rating contact e. contact rating cont	• at 575/600 V a	t 50 °C rated value					
value     40 4 0/9       • at 460/480 V at inside-delta circuit at 50 °C rated value     40 hp       • at 575/600 V at inside-delta circuit at 50 °C rated value     50 hp       • contact rating of auxillary contacts according to UL     R300-B300       • atfor related data     IP20       for related fata     finger-safe, for vertical contact from the front       • decordance with IEC 60947-4-2     IP20       • order related approvals     in accordance with IEC 60947-4-2       • order     IP20       • order related approvals     IP20       • order related approva	• at 200/208 V a						
value value value     st 575/600 V at inside-delta circuit at 50 °C rated value     50 hp       contact rating of auxiliary contacts according to UL contact rating of auxiliary contacts according to UL cafety related data     R300-B300       protection class IP on the front acc. to IEC 60529 electromagnetic compatibility     IP20 finger-safe, for vertical contact from the front electromagnetic compatibility     in accordance with IEC 60947-4-2       contract sypproval     EMC     Declaration of Conformity       conter     EMC     Declaration of Conformity       test Certificates     Marine / Shipping     EMC     Declaration of Conformity       Type Test Certific- ales/Test Report     EMC     Declaration of Conformity       test Certific- ales/Test Report     Marine / Shipping     EMC     Declaration of Conformity       test Certific- ales/Test Report     Marine / Shipping     EMC     Declaration of Conformity       test Certific- ales/Test Report     Marine / Shipping     EMC     Declaration of Conformity		t inside-delta circuit at 50 °C rated	20 hp	20 hp			
value     R300-B300       Safety related data     IP20       protection class IP on the front acc. to IEC 60529     Inger-safe, for vertical contact from the front       electromagnetic compatibility     in accordance with IEC 60947-4-2       Central Product Approval     EMC       General Product Approval     EMC       Ccc     Declaration of Conformity       Ccc     Up to the front acc. to IEC 60529       Test Certificates     Marine / Shipping       Type Test Certificates Report     If to the front sec for vertical contact from the fr		t inside-delta circuit at 50 °C rated	40 hp	40 hp			
Shafety related data       IP20         protection class IP on the front acc. to IEC 60529       IP20         touch protection on the front acc. to IEC 60529       finger-safe, for vertical contact from the front         electromagnetic compatibility       in accordance with IEC 60947-4-2         Portificates/ approvals       EMC       Declaration of Conformity         Centeral Product Approval       EMC       Declaration of Conformity         Test Certificates       Marine / Shipping       EFFC       EFFC         Type Test Certificates Report       EFFC       EFFC       EFFC         other       Other       EFFC       EFFC       EFFC		t inside-delta circuit at 50 °C rated	50 hp	50 hp			
protection class IP on the front acc. to IEC 60529     IP20       touch protection on the front acc. to IEC 60529     finger-safe, for vertical contact from the front       electromagnetic compatibility     in accordance with IEC 60947-4-2       Certificates/ approvals     EMC     Declaration of Conformity       General Product Approval     EMC     Declaration of Conformity       Image: Certificates     Marine / Shipping     Image: Certificates     Image: Certificates       Type Test Certificates Report     Image: Certificates     Image: Certificates     Image: Certificates       Aus: Note Note Note Note Note Note Note Note	contact rating of au	xiliary contacts according to UL	R300-B300	- R300-B300			
finger-safe, for vertical contact from the front         inger-safe, for vertical contact from the front         Image: Safe for vertical contact from the front         Image: Safe for vertical contact from the front         Image: Safe for vertical contact from the fort         Image: Safe for vertical contact from the fort         Image: Safe for vertical contact for ve	Safety related data						
finger-safe, for vertical contact from the front         electromagnetic compatibility         electromagnetic compatibility         EMC       Declaration of Conformity         Conformity         Conformity       Declaration of Conformity         Type Test Certificates       Marine / Shipping       Declaration of Conformity         Declaration of Conformity         Declaration of Conformity         Declaration of Conformity         Typ	protection class IP	on the front acc. to IEC 60529	IP20				
electromagnetic compatibility in accordance with IEC 60947-4-2         Certificates/ approval         General Product Approval       EMC       Declaration of Conformity         General Product Approval       EMC       Declaration of Conformity         General Product Approval       EMC       Declaration of Conformity         Figure 1       EMC       Declaration of Conformity         Image: 1       Image: 1<	•						
Certificates/ approvals         EMC       Declaration of Conformity         Conformity       Conformity       Conformity       Conformity       Conformity       Conformity       Conformity         Type Test Certific- ates/Test Report       Marine / Shipping       Conformity       Conformity </td <td></td> <td></td> <td></td> <td colspan="3"></td>							
EMC       Declaration of Conformity         Image: Conformity <thimage: conformity<="" th="">       Image: Conformity       <th< td=""><td>-</td><td></td><td></td><td></td><td></td></th<></thimage:>	-						
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ates/Test Report ABS EUREAU VERITAS LIS PRS ONVERIONALI ONVERIONALI ONVE	Test Certificates	Marine / Shipping					
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	other	BURE	A U				

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-1AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1AC15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5217-1AC15&lang=en

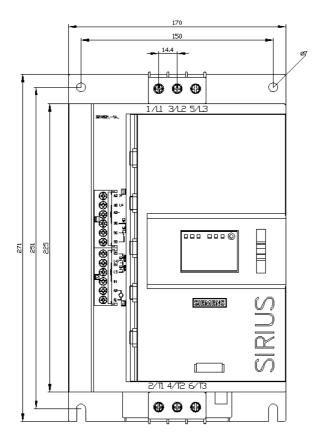
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

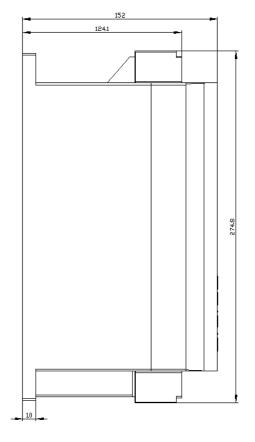
https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1AC15/char

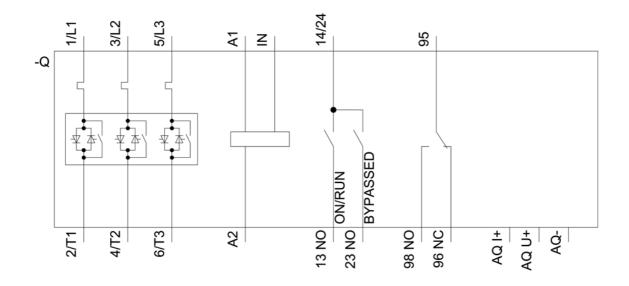
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-1AC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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