## **SIEMENS**

Data sheet 3RW5215-1TC14

SIRIUS



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC Screw terminals Thermistor input



product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	UNIVOZ
of standard HMI module usable	3RW5980-0HS00
of high feature HMI module usable	3RW5980-0H500
of ringin reature rinni module dsable     of communication module PROFINET standard usable	
of communication module PROFIBUS usable	3RW5980-0CS00
	3RW5980-0CP00
of communication module Modbus TCP usable	3RW5980-0CT00
of communication module Modbus RTU usable	3RW5980-0CR00
of communication module Ethernet/IP	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3822-6; 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>	3NE1817-0; 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>	3NE8021-1; Type of coordination 2, Iq = 65 kA
eneral technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
is supported HMI-Standard	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Diboron trioxide - 1303-86-2
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
pump ramp down	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function     constring managinal value display	Yes
<ul><li>operating measured value display</li><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
removable terminal for control circuit	Yes
• torque control	No
analog output	No
Power Electronics	
operational current	
at 40 °C rated value	25 A
• at 50 °C rated value	22.3 A
at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
at 50 °C rated value	39 A
at 60 °C rated value	33.9 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 % -10 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %

inside-delta circuit	10 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	5.5 kW
• at 230 V at inside-delta circuit at 40 °C rated value	11 kW
• at 400 V at 40 °C rated value	11 kW
• at 400 V at inside-delta circuit at 40 °C rated value	18.5 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>	11.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	12.4 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	13.3 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	14.2 A
at rotary coding switch on switch position 5	15.1 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	16 A
at rotary coding switch on switch position 7	16.9 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	17.8 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	18.7 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	19.6 A
at rotary coding switch on switch position 11	20.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	21.4 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	22.3 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	23.2 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	24.1 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	25 A
• minimum	11.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	19.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	21.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	23 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	24.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	26.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	27.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	29.3 A 30.8 A
position 8  • for inside-delta circuit at rotary coding switch on switch	32.4 A
position 9  • for inside delta circuit at rotary coding switch on switch	33.9 A
position 10 • for inside-delta circuit at rotary coding switch on switch	35.5 A
position 11 • for inside-delta circuit at rotary coding switch on switch	37.1 A
position 12     for inside-delta circuit at rotary coding switch on switch	38.6 A
<ul> <li>position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	40.2 A
for inside-delta circuit at rotary coding switch on switch position 15	41.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	43.3 A
at inside-delta circuit minimum	19.9 A
minimum load [%]	15 %; Relative to smallest settable le

<ul> <li>at 40 °C after startup</li> </ul>	20 W
<ul> <li>at 50 °C after startup</li> </ul>	19 W
at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	376 W
at 50 °C during startup	318 W
at 60 °C during startup	278 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	-15 %
AC at 50 Hz	
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 by closing the bypass contacts maximum	0.17 A
inrush current peak at application of control supply voltage	12.2 A
maximum	2.2 ms
duration of inrush current peak at application of control supply voltage	Varistor
Upsign of the overvoitage protection	Varistor
design of the overvoltage protection	
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
	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
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
design of short-circuit protection for control circuit  Inputs/ Outputs  number of digital inputs	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 outputs	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  1 3
Inputs/ Outputs  number of digital inputs  number of digital outputs  not parameterizable	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  1 3 2
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
Inputs/ Outputs  number of digital inputs  number of digital outputs  ont parameterizable  digital output version  number of analog outputs	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  1 3 2
Inputs/ Outputs  number of digital inputs  number of digital outputs  onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
Inputs/ Outputs  number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
Inputs/ Outputs  number of digital inputs number of digital outputs  • not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A
Inputs/ Outputs  number of digital inputs number of digital outputs  • not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
Inputs/ Outputs  number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm
Inputs/ Outputs  number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
Inputs/ Outputs  number of digital inputs number of digital outputs  • not parameterizable  digital output version number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable digital output version number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
Inputs/ Outputs  number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
Inputs/ Outputs  number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm
Inputs/ Outputs  number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 0 mm 100 mm
Inputs/ Outputs  number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs 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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 100 mm 5 mm
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable digital output version number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 100 mm 5 mm
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable digital output version number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
Inputs/ Outputs  number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  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	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  1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg

a with conductor cross section = 0.5?	50 m
with conductor cross-section = 0.5 mm² maximum      with conductor cross-section = 1.5 mm² maximum	50 m
with conductor cross-section = 1.5 mm² maximum      with conductor cross-section = 2.5 mm² maximum	150 m
with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
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)
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
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	
<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	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	•
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
during storage according to IEC 60721	(sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
	inside the devices), 1M4
during transport according to IEC 60721  - during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	0' 5 7 1
Siemens Eco Profile (SEP)	Siemens EcoTech
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
<ul><li>EtherNet/IP</li></ul>	Yes
<ul> <li>Modbus RTU</li> </ul>	Yes
<ul><li>Modbus TCP</li></ul>	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
<ul> <li>of circuit breaker usable for Standard Faults</li> </ul>	
— at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
— 60/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
— at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA
— at 575/600 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
• of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 100 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; Iq = 5 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. 100 A; Iq = 100 kA

<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	5 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	7.5 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	15 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	10 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	10 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

## **General Product Approval**







<u>KC</u>

Confirmation





**General Product Ap**proval

EMV

**Test Certificates** 

Type Test Certificates/Test Report



Marine / Shipping



Marine / Shipping

other

**Environment** 





Confirmation





**Environmental Confirmations** 

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5215-1TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-1TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5215-1TC14&lang=en

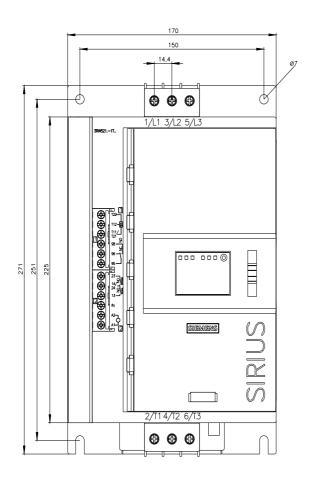
Characteristic: Tripping characteristics, I2t, Let-through current

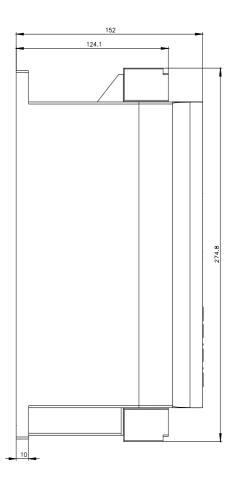
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC14/char

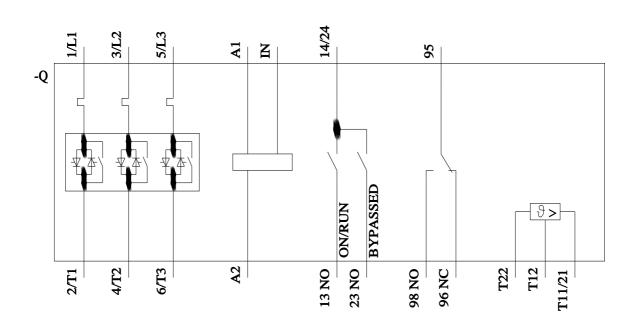
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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