## SIEMENS

## Data sheet

## 3RW5215-1TC14



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

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	<u>3RV2032-4EA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3RV2032-4EA10;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3822-6;</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>3NA3822-6;</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>3NE1817-0;</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>3NE8021-1;</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	

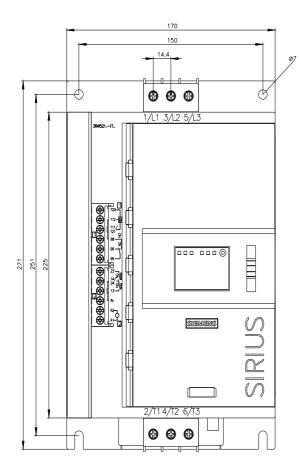
• · · ·					
for main current circuit	100 ms				
<ul> <li>for control circuit</li> </ul>	100 ms				
insulation voltage rated value	600 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 600 V				
service factor	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for 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				
• ramp-down (soft stop)	Yes				
Soft Torque	Yes				
adjustable current limitation	Yes				
pump ramp down	Yes				
intrinsic device protection	Yes				
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic				
	motor overload protection)				
evaluation of thermistor motor protection	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				
<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				
	Yes; in connection with the PROFINET Standard communication				
PROFlenergy	,				
	module				
firmware update	module Yes				
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	module Yes Yes				
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	module Yes Yes No				
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul>	module Yes Yes				
firmware update     removable terminal for control circuit     torque control     analog output Power Electronics	module Yes Yes No				
firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current	module Yes Yes No				
firmware update     removable terminal for control circuit     torque control     analog output Power Electronics	module Yes Yes No No 25 A				
<ul> <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>	module Yes Yes No No 25 A 22.3 A				
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	module Yes Yes No No 25 A				
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<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> </ul>	module Yes No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A				
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<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> </li>	module Yes Yes No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 480 V 200 480 V 200 480 V 115 % 10 %				
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<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>perating voltage <ul> <li>at end value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage 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>at 230 V at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> </ul></li>	module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 480 V 200 480 V 200 480 V -15 % 10 % -15 % 10 %				

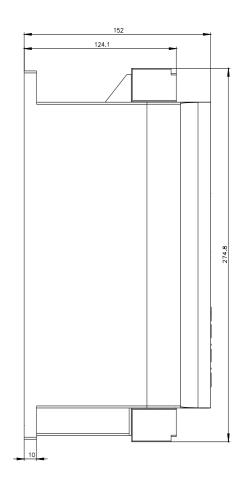
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	11.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	12.4 A
at rotary coding switch on switch position 3	13.3 A
at rotary coding switch on switch position 4	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> <li>at rotary coding switch on switch position 7</li> </ul>	16 A
<ul> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 2</li> </ul>	16.9 A 17.8 A
<ul> <li>at rotary coding switch on switch position 8</li> <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
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> </ul>	20.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	21.4 A
at rotary coding switch on switch position 13	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
at rotary coding switch on switch position 16	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
• for inside-delta circuit at rotary coding switch on switch position 3	23 A
• for inside-delta circuit at rotary coding switch on switch position 4	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> <li>for inside-delta circuit at rotary coding switch on</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</li> </ul>	29.3 A 30.8 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>	32.4 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>	33.9 A
<ul> <li>switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	35.5 A
switch position 11 <ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	37.1 A
switch position 12 <ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	38.6 A
switch position 13 <ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	40.2 A
<ul><li>switch position 14</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	41.7 A
<ul><li>switch position 15</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	43.3 A
switch position 16	
at inside-delta circuit minimum	19.9 A
minimum load [%]	15 %; Relative to smallest settable le
<ul> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> </ul>	20 W
• at 50 °C after startup	20 W 19 W
• at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	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	

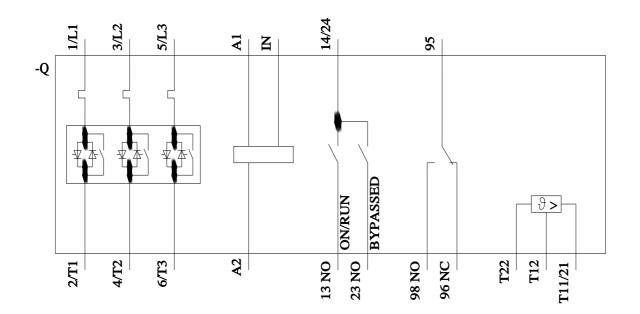
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative 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	12.2 A			
maximum				
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)			
number of analog outputs	0			
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				
	+/- 10° rotation possible and can be tilted forward or backward on			
Installation/ mounting/ dimensions	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface			
Installation/ mounting/ dimensions	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing			
Installation/ mounting/ dimensions mounting position	vertical mounting surface			
Installation/ mounting/ dimensions mounting position fastening method	vertical mounting surface screw fixing			
Installation/ mounting/ dimensions mounting position fastening method height	vertical mounting surface screw fixing 275 mm			
Installation/ mounting/ dimensions mounting position fastening method height width	vertical mounting surface screw fixing 275 mm 170 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical mounting surface screw fixing 275 mm 170 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
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	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
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	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
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	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg			
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	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals			
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 • for control circuit	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals			
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 • for control circuit wire length for thermistor connection	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals			
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 • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m			
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 • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m			
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 • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m			
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 • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum type of connectable conductor cross-sections • for main contacts	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m 250 m			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting e forwards backwards backwards backwards connections/ Terminals type of electrical connection e for main current circuit for control circuit wire length for thermistor connection e with conductor cross-section = 0.5 mm <sup>2</sup> maximum with conductor cross-section = 1.5 mm <sup>2</sup> maximum with conductor cross-section = 2.5 mm <sup>2</sup> maximum type of connectable conductor cross-sections e for main contacts — solid	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals screw-type terminals 20 m 150 m 250 m			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • mith conductor cross-section = 0.5 mm <sup>2</sup> maximum • mith conductor c	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 22x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • for main contacts - solid - finely stranded with core end processing • at AWG cables for main current circuit solid	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 22x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 250 m 22x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> ) 2x (16 12), 2x (14 8)			
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm <sup>2</sup> maximum • with conductor cross-section = 1.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum • with conductor cross-section = 2.5 mm <sup>2</sup> maximum type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid	vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 250 m 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> ) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )			

- at ANAC applies for control size it colid	4. (00 40) 0. (00 44)			
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)			
<ul> <li>wire length</li> <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</li> </ul>	7 10.3 lbf·in			
terminals				
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature				
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C			
environmental category	10			
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			
during transport according to IEC 60721	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
<ul> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> </ul>	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol				
<ul> <li>communication module is supported</li> <li>PROFINET standard</li> </ul>	Yes			
• EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
PROFIBUS	Yes			
UL/CSA ratings				
manufacturer's article number				
<ul> <li>of circuit breaker</li> </ul>				
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA			
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA			
<ul> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 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; lq = 5 kA			
5				
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 100 A; lq = 100 kA			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <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; lq = 5 kA			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>				
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA 5 hp			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA 5 hp 7.5 hp			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA 5 hp			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA 5 hp 7.5 hp 15 hp			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA Type: Class J / L, max. 100 A; lq = 100 kA 5 hp 7.5 hp 15 hp 10 hp			

Safety related data			_			
protection class IP on the front according to IEC 60529		to IEC	IP20			
touch protection on	the front according to	o IEC 60529	finger-	safe, for vertical conta	act from the front	
electromagnetic cor	npatibility		in acco	ordance with IEC 609	47-4-2	
Certificates/ approval	s					
General Product Ap	proval					EMC
	<u>Confirmation</u>			<b>U</b>	EHC	RCM
Declaration of Conf	ormity	Test Certificat	tes	Marine / Shipping		
CE EG-Konf.	UK CA	<u>Type Test Cer</u> ates/Test Rep		ABS	BUREAU VERITAS	Lloyd's Register urs
Marine / Shipping	other					
PRS	<u>Confirmation</u>					
Further information						
Information- and Do	wnloadcenter (Catalo	gs, 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⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current						
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC14/char Characteristic: Installation altitude						
Characteristic: installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1TC14&objecttype=14&gridview=view1						
Simulation Tool for Soft Starters (STS)						
https://support.industry.siemens.com/cs/ww/en/view/101494917						







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