# SIEMENS

#### Data sheet

### 3RW5248-2TC14



SIRIUS soft starter 200-480 V 570 A, 110-250 V AC spring-type 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>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; 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>	<u>3NE1437-2; 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>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>		

#### General technical data

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
for main current circuit	100 ms
<ul> <li>for control circuit</li> </ul>	100 ms

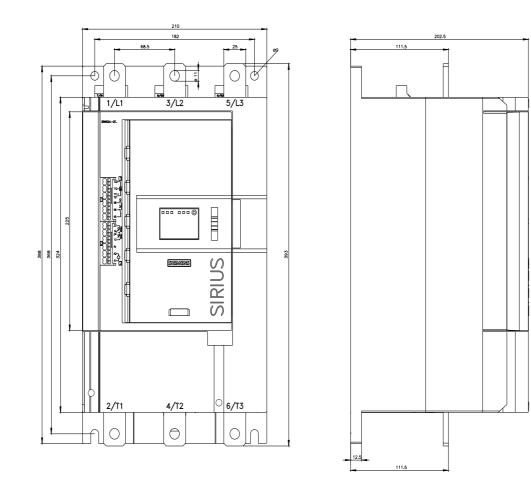
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 600 V			
service factor	1			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for protective separation				
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V			
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz			
utilization category according to IEC 60947-4-2	AC 53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	02/15/2018			
product function				
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes			
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes			
Soft Torque	Yes			
<ul> <li>adjustable current limitation</li> </ul>	Yes			
• pump ramp down	Yes			
<ul> <li>intrinsic device protection</li> </ul>	Yes			
<ul> <li>motor overload protection</li> </ul>	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			
<ul> <li>communication function</li> </ul>	Yes			
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories			
error logbook	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			
firmware update	Yes			
<ul> <li>removable terminal for control circuit</li> </ul>	Yes			
torque control	No			
<ul> <li>analog output</li> </ul>	No			
Power Electronics				
operational current				
<ul> <li>at 40 °C rated value</li> </ul>	570 A			
<ul> <li>at 50 °C rated value</li> </ul>	504 A			
<ul> <li>at 60 °C rated value</li> </ul>	460 A			
operational current at inside-delta circuit				
• at 40 °C rated value	987 A			
• at 50 °C rated value	873 A			
• at 60 °C rated value	796 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 %			
relative positive tolerance of the operating voltage	10 %			
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %			
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	160 kW			
• at 230 V at inside-delta circuit at 40 °C rated value	315 kW			
• at 400 V at 40 °C rated value	315 kW			
• at 400 V at inside-delta circuit at 40 °C rated value	560 kW			
Operating frequency 1 rated value	50 Hz			
Operating frequency 2 rated value	60 Hz			

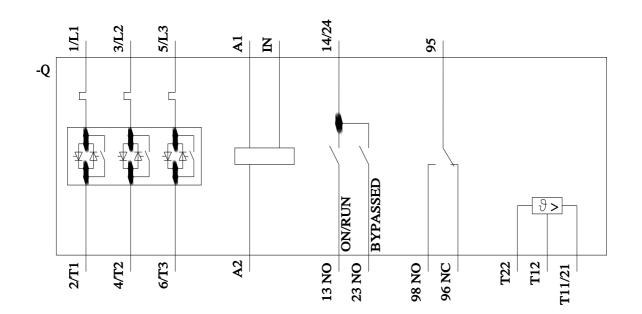
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	240 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	262 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	284 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	306 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	328 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	350 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	372 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	394 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	416 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	438 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	460 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	482 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	504 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	526 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	548 A
at rotary coding switch on switch position 16	570 A
• minimum	240 A
adjustable motor current	
for inside-delta circuit at rotary coding switch on switch     position 1	416 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	454 A
for inside-delta circuit at rotary coding switch on switch     position 3	492 A
for inside-delta circuit at rotary coding switch on switch     position 4	530 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	568 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 switch</li> </ul>	606 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>	644 A 682 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	721 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	759 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	797 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	835 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	873 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	911 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	949 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	987 A
<ul> <li>o for inside delta circuit at rotary county county owner or owner owner or owner owner or owner or owner or owner or own</li></ul>	416 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	183 W
• at 50 °C after startup	163 W
• at 60 °C after startup	153 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	10 241 W
• at 50 °C during startup	8 500 W
• at 60 °C during startup	7 663 W
control circuit/ Control	
type of voltage of the control supply voltage	AC
-JE termine et alle sonnier employ terminge	

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 atAC 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	100 mA			
inrush current by closing the bypass contacts maximum	2.2 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 digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs				
switching capacity current of the relay outputs	-			
at AC-15 at 250 V rated value	3 A			
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	3 A 1 A			
• at DC-13 at 24 V rated value	3 A 1 A			
at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A			
• at DC-13 at 24 V rated value				
at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface			
at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm			
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height width	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm			
the at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width depth	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm			
tar DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm			
tar DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  oforwards	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm			
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm			
tar 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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm			
tart DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     backwards     upwards     downwards     at the side weight without packaging	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm			
tart 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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 5 mm			
tart DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     backwards     upwards     downwards     at the side weight without packaging	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 5 mm			
the side     weight without packaging	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 5 mm			
t DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     backwards     upwards     downwards     at the side weight without packaging Connections/ Terminals type of electrical connection	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection spring-loaded terminals			
the side     type of electrical connection         eta the side         type of electrical connection         eta the side         type of electrical connection         eta the side         type of electrical connection         eta the side         eta the side         type of electrical connection         eta the side         eta the side         type of electrical connection         eta the side         eta the side         type of electrical connection         eta the side         eta the side         type of electrical connection         eta the side         eta the side         type of electrical connection         eta the side         type of electrical connection	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection			
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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     oforwards     backwards     upwards     downwards     o at the side weight without packaging Connections/ Terminals type of electrical connection     ofor main current circuit     ofor control circuit width of connection bar maximum	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection spring-loaded terminals			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> <ul> <li>weight without packaging</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection             <ul> <li>for control circuit</li> <li>for connection bar maximum</li> <li>wire length for thermistor connection</li> </ul> </li> </ul>	1 A         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         screw fixing         393 mm         210 mm         203 mm         10 mm         0 mm         100 mm         75 mm         5 mm         10.6 kg			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for control circuit</li> <li>for connection bar maximum</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul> </li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection spring-loaded terminals 45 mm 50 m			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>required spacing with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> </ul> <li>Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul></li>	1 A         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         screw fixing         393 mm         210 mm         203 mm         10 mm         0 mm         100 mm         75 mm         5 mm         10.6 kg         busbar connection spring-loaded terminals         45 mm         50 m         150 m			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for control circuit</li> <li>for connection bar maximum</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul> </li> </ul>	1 A         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         screw fixing         393 mm         210 mm         203 mm         10 mm         0 mm         100 mm         75 mm         5 mm         10.6 kg         busbar connection spring-loaded terminals         45 mm         50 m         150 m			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>type of connectable conductor cross-sections</li> </ul> </li> </ul>	1 A         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         screw fixing         393 mm         210 mm         203 mm         10 mm         0 mm         100 mm         75 mm         5 mm         10.6 kg         busbar connection         spring-loaded terminals         45 mm         50 m         150 m         250 m			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection             <ul> <li>for control circuit</li> <li>of connection bar maximum</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> </ul> </li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m 2x (50 240 mm²)			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for control circuit</li> <li>for control circuit</li> <li>if or control circuit</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> </ul> </li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 100 mm 75 mm 5 mm 10.6 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m 2x (50 240 mm²)			

a for control circuit finally stranded with core and processing	$2 \times (0.25 - 1.5 \text{ mm}^2)$				
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )				
	2x (24 16) 2x (24 16)				
<ul> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>	ZA (24 10)				
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>	14 24 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>	124 210 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 (sand must not get into the devices), 3M6				
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not g inside the devices), 1M4				
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
EMC emitted interference	acc. to IEC 60947-4-2: Class A				
Communication/ Protocol					
communication module is supported					
PROFINET standard	Yes				
• EtherNet/IP	Yes				
Modbus RTU	Yes				
Modbus TCP	Yes				
PROFIBUS	Yes				
UL/CSA ratings					
manufacturer's article number					
• of the fuse					
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1600 A; Iq = 30 kA				
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 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 J / L, max. 1600 A; Iq = 30 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. 1200 A; Iq = 100 kA				
operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	150 hp				
● at 220/230 V at 50 °C rated value	200 hp				
● at 460/480 V at 50 °C rated value	400 hp				
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	300 hp				
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	350 hp				
• at 460/480 V at inside-delta circuit at 50 °C rated value	750 hp				
contact rating of auxiliary contacts according to UL	R300-B300				
Safety related data					
	IP00; IP20 with cover				
protection class IP on the front according to IEC 60529					
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover				
•					

(SP) CM	<u>Confirmation</u>			EHC	RCM
Declaration of Conformity		Test Certificates	Marine / Shipping		
UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS	B U REAU VERITAS	Lloyd's Register us
Marine / Shipping	other				
PRS Further information	<u>Confirmation</u>				
Siemens has decided https://press.siemens.cc Siemens is working o Please contact your loc EAC relevant market (cc Information on the pa	n the renewal of the cu cal Siemens office on the other than the sanctioned	se/siemens-wind-down-rus irrent EAC certificates. e status of validity of the EA d EAEU member states Rus	C certification if you inten	d to import or offer to supp	oly these products to an
Information- and Dow https://www.siemens.co Industry Mall (Online https://mall.industry.sie	nloadcenter (Catalogs om/ic10 ordering system)		<u>248-2TC14</u>		
Service&Support (Ma https://support.industry	nuals, Certificates, Cha siemens.com/cs/ww/en/	ps/3RW5248-2TC14		_	
http://www.automation. Characteristic: Trippin https://support.industry	siemens.com/bilddb/cax ng characteristics, l²t, l siemens.com/cs/ww/en/	sion drawings, 3D models _de.aspx?mlfb=3RW5248- Let-through current /ps/3RW5248-2TC14/char		s, Eplan macros,)	
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5248-2TC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917					





8/10/2023 🖸

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