## **SIEMENS**

Data sheet 3RW5236-6TC14



SIRIUS soft starter 200-480 V 171 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>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3365-6; 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>	3NE1230-0; 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>	3NE3335; 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	
<ul> <li>CE marking</li> </ul>	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3

trin class	CLASS 10A (default) / 10E / 20E: 200 to IEC 60047 4.2
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	100 ms
for main current circuit     for control circuit	100 ms
	600 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2 6 kV
impulse voltage rated value	1 400 V
blocking voltage of the thyristor maximum service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	O NV
between main and auxiliary circuit	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	
ramp-up (soft starting)	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)
<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
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
torque control	No
analog output	No
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	171 A
<ul> <li>at 50 °C rated value</li> </ul>	153 A
at 60 °C rated value	141 A
operational current at inside-delta circuit	
at 40 °C rated value	296 A
at 50 °C rated value	265 A
at 60 °C rated value	244 A
operating voltage	000 400 1/
• 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	

<ul> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>90 kW</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>Derating frequency 1 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 15</li></ul>
<ul> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>Deparating frequency 1 rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> </ul>
• at 400 V at inside-delta circuit at 40 °C rated value      Operating frequency 1 rated value
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 6 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15
Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency  adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 6 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15
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relative positive tolerance of the operating frequency  adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 6 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15
adjustable motor current  • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 6 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 8 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 9 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15 • at rotary coding switch on switch position 15
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<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 15</li> </ul>
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<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 15</li> </ul>
<ul> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 15</li> </ul>
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>147 A</li> <li>153 A</li> <li>159 A</li> <li>165 A</li> </ul>
<ul> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 15</li> </ul>
<ul> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> <li>159 A</li> <li>165 A</li> </ul>
• at rotary coding switch on switch position 15 165 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>171 A</li> </ul>
• minimum 81 A
adjustable motor current
• for inside-delta circuit at rotary coding switch on switch position 1
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>171 A</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>182 A</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>192 A</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>
• for inside-delta circuit at rotary coding switch on switch position 9
• for inside-delta circuit at rotary coding switch on switch position 10
• for inside-delta circuit at rotary coding switch on switch position 11  • for inside delta circuit at rotary coding switch on 244 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on 265 A</li> </ul>
switch position 13
• for inside-delta circuit at rotary coding switch on switch position 14  • for inside delta circuit at rotary coding switch on 275 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on 296 A</li> </ul>
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>at inside-delta circuit minimum</li> <li>140 A</li> </ul>
minimum load [%]  140 A  15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC
• at 40 °C after startup 63 W
• at 50 °C after startup 58 W

-t 00 °C -ftt	5430
• at 60 °C after startup	54 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	2 405 W
<ul> <li>at 50 °C during startup</li> </ul>	2 037 W
at 60 °C during startup	1 826 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
locked-rotor current at close of bypass contact	2.5 A
maximum	
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	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	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 number of digital outputs	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	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	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  • not parameterizable  digital output version  number of analog outputs	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  number of analog outputs  switching capacity current of the relay outputs	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	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  • 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	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
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	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	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
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting
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	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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 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	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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm
Inputs/ Outputs  number of digital inputs  o not parameterizable digital output version number of analog outputs  switching capacity current of the relay outputs  o at AC-15 at 250 V rated value  o 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  o forwards  backwards  upwards	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
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	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  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg

width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (16 95 mm²)
for DIN cable lug for main contacts finely stranded	2x (25 120 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	4(0040), 0(0044)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	900 m
<ul> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> </ul>	800 m 100 m
	100 111
<ul> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2 IV III
tightening torque [lbf·in]	
for main contacts with screw-type terminals	89 124 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
during storage and transport	-40 +80 °C
environmental category	40 100 O
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
asing specialist describing to the out his	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
during transport according to IEC 60721	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	V
PROFINET standard	Yes
• EtherNet/IP	Yes
Modbus RTU  Modbus TOP	Yes
Modbus TCP     PROFIBLIS	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker      unable for Standard Faults at 460/490 V	Sigmong type: 2\/A52 may 250 A 1a = 40 kA
<ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
— usable for High Faults at 460/480 V according	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
to UL	, , , , , , , , , , , , , , , , , , , ,
— usable for Standard Faults at 460/480 V at	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
inside-delta circuit according to UL	0
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 400 A; lq = 10 kA
— usable for High Faults up to 575/600 V	Type: Class J / L, max. 350 A; Iq = 100 kA

according to UL - usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 400 A; Iq = 10 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 350 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value 50 hp at 220/230 V at 50 °C rated value 50 hp • at 460/480 V at 50 °C rated value 100 hp • at 200/208 V at inside-delta circuit at 50 °C rated 75 hp at 220/230 V at inside-delta circuit at 50 °C rated 100 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 200 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility in accordance with IEC 60947-4-2

Certificates/ approvals

**General Product Approval** 

**EMC** 



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5236-6TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5236-6TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5236-6TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

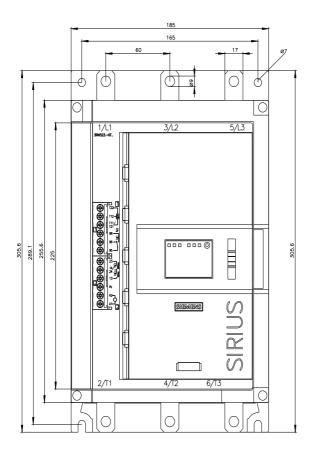
https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6TC14/char

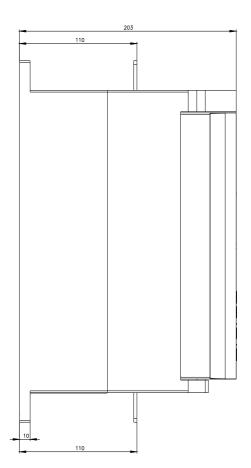
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5236-6TC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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





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