## **SIEMENS**

product brand name

Data sheet 3RW5235-6AC14

SIRIUS



SIRIUS soft starter 200-480 V 143 A, 110-250 V AC Screw terminals Analog output

product brand name	311103			
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>	3RW5980-0HS00			
<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>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6: Type of coordination 1, Iq = 65 kA			
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3244-6; 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>	3NE1227-0; 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>	3NE3334-0B; Type of coordination 2, Iq = 65 kA			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 20 s			
current limiting value [%] adjustable	130 700 %			
certificate of suitability				
CE marking	Yes			
<ul> <li>UL approval</li> </ul>	Yes			
CSA approval	Yes			
product component is supported				
HMI-Standard	Yes			
HMI-High Feature	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	3			
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			
buffering time in the event of power failure				

for main current circuit	100 ms			
for control circuit	100 ms			
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 400 V			
service factor	1 400 V			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
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 acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
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			
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No			
<ul> <li>inside-delta circuit</li> </ul>	Yes			
<ul><li>auto-RESET</li></ul>	Yes			
manual RESET	Yes			
<ul><li>remote reset</li></ul>	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			
<ul><li>torque control</li></ul>	No			
<ul><li>analog output</li></ul>	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature			
Daway Flactus visa	HMI)			
Power Electronics				
operational current  • at 40 °C rated value	143 A			
at 50 °C rated value     at 50 °C rated value	143 A 128 A			
at 60 °C rated value     at 60 °C rated value	118 A			
operational current at inside-delta circuit	1107			
at 40 °C rated value	248 A			
at 40 Crated value      at 50 °C rated value	222 A			
at 60 °C rated value	204 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				
•				

<ul> <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>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>adjustable motor current</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 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> </ul>	37 kW 75 kW 75 kW 132 kW 50 Hz 60 Hz -10 % 10 %  68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A
<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>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>adjustable motor current</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 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> </ul>	75 kW 132 kW 50 Hz 60 Hz -10 % 10 %  68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 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 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	132 kW 50 Hz 60 Hz -10 % 10 %  68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
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 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 12	50 Hz 60 Hz -10 % 10 %  68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
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 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 12	60 Hz -10 %  10 %  68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
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 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 12	-10 %  68 A  73 A  78 A  83 A  88 A  93 A  98 A  103 A  108 A  113 A  118 A  123 A  128 A  133 A
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 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	10 %  68 A  73 A  78 A  83 A  88 A  93 A  98 A  103 A  108 A  113 A  118 A  123 A  128 A  133 A
<ul> <li>adjustable motor current</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 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> </ul>	68 A 73 A 78 A 83 A 88 A 93 A 98 A 103 A 113 A 118 A 123 A 128 A 133 A
<ul> <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 10</li> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> </ul>	73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<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> </ul>	73 A 78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<ul> <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> </ul>	78 A 83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<ul> <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> </ul>	83 A 88 A 93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<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 12</li> </ul>	88 A 93 A 98 A 103 A 108 A 118 A 118 A 123 A 128 A 133 A
<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 12</li> </ul>	93 A 98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<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 12</li> </ul>	98 A 103 A 108 A 113 A 118 A 123 A 128 A 133 A
<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> </ul>	103 A 108 A 113 A 118 A 123 A 128 A 133 A
<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> </ul>	108 A 113 A 118 A 123 A 128 A 133 A
<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> </ul>	113 A 118 A 123 A 128 A 133 A
<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> </ul>	113 A 118 A 123 A 128 A 133 A
<ul><li>at rotary coding switch on switch position 11</li><li>at rotary coding switch on switch position 12</li></ul>	118 A 123 A 128 A 133 A
at rotary coding switch on switch position 12	123 A 128 A 133 A 138 A
, ,	128 A 133 A 138 A
<ul> <li>at totally cooling switch on switch position 13</li> </ul>	133 A 138 A
<ul> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> </ul>	138 A
at rotary coding switch on switch position 15	
<ul> <li>at rotary coding switch on switch position 16</li> <li>minimum</li> </ul>	143 A 68 A
	00 A
adjustable motor current	440.4
for inside-delta circuit at rotary coding switch on switch position 1	118 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	126 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	135 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	144 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	152 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	161 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	170 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	178 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	187 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	196 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	204 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	213 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	222 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	230 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	239 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	248 A
at inside-delta circuit minimum	118 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	

<ul> <li>at 40 °C after startup</li> </ul>	55 W			
<ul> <li>at 50 °C after startup</li> </ul>	50 W			
at 60 °C after startup	47 W			
power loss [W] at AC at current limitation 350 %				
<ul> <li>at 40 °C during startup</li> </ul>	2 127 W			
<ul> <li>at 50 °C during startup</li> </ul>	1 807 W			
<ul> <li>at 60 °C during startup</li> </ul>	1 605 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 maximum	2.5 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 ms			
design of the overvoltage protection	Varistor			
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply			
Inputs/ Outputs				
number of digital inputs	1			
number of inputs for thermistor connection	0			
number of digital outputs	3			
<ul> <li>not parameterizable</li> </ul>	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	1			
switching capacity current of the relay outputs				
• at AC-15 at 250 V rated value	3 A			
• at DC-13 at 24 V rated value	1 A			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	306 mm			
width	185 mm			
depth	203 mm			
required spacing with side-by-side mounting				
• forwards	10 mm			
<ul><li>backwards</li></ul>	0 mm			
• upwards	100 mm			
<ul><li>downwards</li></ul>	75 mm			
• at the side	5 mm			
weight without packaging	6.6 kg			
· 3 · ·······				

type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid • for control circuit finely stranded with core end processing  type of electrical connection  busbar connection  25 mm  22 (16 95 mm²)  2x (25 120 mm²)  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	<b>'</b>		
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>type of connectable 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> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> </ul>	'		
<ul> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>type of connectable 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> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> </ul>	<i>'</i>		
width of connection bar maximum     25 mm       type of connectable conductor cross-sections     2x (16 95 mm²)       • for DIN cable lug for main contacts stranded     2x (25 120 mm²)       type of connectable conductor cross-sections     4x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)       • for control circuit finely stranded with core end     1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	<b>'</b>		
<ul> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>2x (16 95 mm²)</li> <li>2x (25 120 mm²)</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> </ul>	<b>'</b>		
<ul> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> </ul>	<b>'</b>		
type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<b>'</b>		
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mn²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mn²)</li> </ul>	<b>'</b>		
• for control circuit finely stranded with core end 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<b>'</b>		
	n²)		
• at AWG cables for control circuit solid 1x (20 12), 2x (20 14)			
wire length			
<ul> <li>between soft starter and motor maximum</li> </ul> 800 m			
at the digital inputs at AC maximum  100 m			
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> </ul>			
tightening torque [lbf·in]			
• for main contacts with screw-type terminals 89 124 lbf-in			
• for auxiliary and control contacts with screw-type  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			
• during operation -25 +60 °C; Please observe derating above	ng at temperatures of 40 °C or		
◆ during storage and transport     −40 +80 °C			
environmental category			
<ul> <li>during operation acc. to IEC 60721</li> <li>3K6 (no ice formation, only occasional mist), 3S2 (sand must not get into the</li> </ul>	e devices), 3M6		
not get inside the devices), 1M4			
• during transport acc. 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			
PROFINET standard     Yes     Standard     Yes			
EtherNet/IP     Yes     Medibus PTII			
Modbus RTU  Yes  Medibus TCP  Yes			
<ul><li>Modbus TCP</li><li>PROFIBUS</li><li>Yes</li></ul>			
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
<ul> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V</li> <li>according to UL</li> <li>Siemens type: 3VA52, max. 250 A; Ic</li> </ul>	q = 10 kA		
— usable for High Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; Ic	q max = 65 kA		
— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	q = 10 kA		
— usable for High Faults at 460/480 V at insidedelta circuit according to UL  Siemens type: 3VA52, max. 250 A; Ic	q max = 65 kA		
— usable for Standard Faults at 575/600 V Siemens type: 3VA52, max. 250 A; lo according to UL	q = 10 kA		
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	q = 10 kA		
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> <li>Type: Class RK5 / K5, max. 350 A; Ic</li> </ul>	q = 10 kA		

electromagnetic compatibility Certificates/ approvals	in accordance with IEC 60947-4-2			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover			
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover			
Safety related data				
contact rating of auxiliary contacts according to UL	R300-B300			
at 460/480 V at inside-delta circuit at 50 °C rated value	150 hp			
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp			
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp			
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	100 hp			
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	40 hp			
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	40 hp			
operating power [hp] for 3-phase motors				
<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. 350 A; Iq = 100 kA			
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA			
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 350 A; Iq = 100 kA			
according to UL				













Conformity

**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











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=3RW5235-6AC14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5235-6AC14}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC14

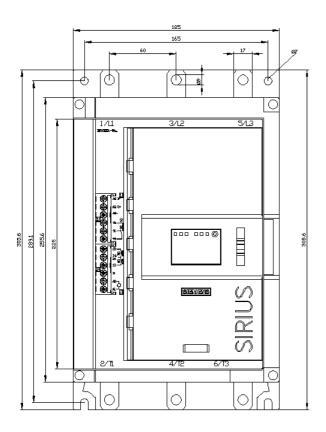
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

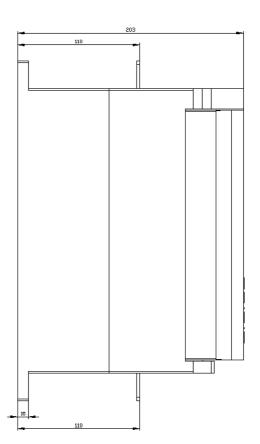
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5235-6AC14&lang=en

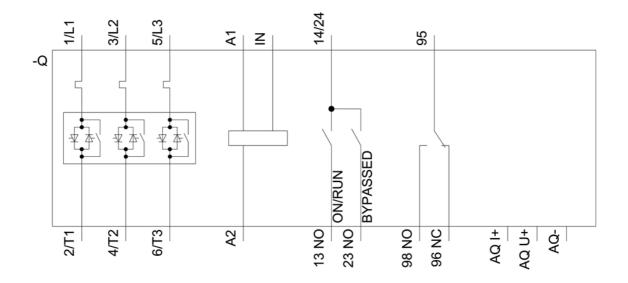
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5235-6AC14&objecttype=14&gridview=view1







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