## SIEMENS

## Data sheet

## 3RW5224-1AC14



SIRIUS soft starter 200-480 V 47 A, 110-250 V AC Screw terminals Analog output

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>	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4RA10: Type of coordination 1. Iq = 65 kA. CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>		
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1021-2; 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>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>		
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 approval	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		

huffering time in the event of newer failure			
<ul> <li>buffering time in the event of power failure</li> <li>for main current circuit</li> </ul>	100 mg		
	100 ms		
for control circuit	100 ms 600 V		
insulation voltage rated value			
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		
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		
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes		
Soft Torque	Yes		
<ul> <li>adjustable current limitation</li> </ul>	Yes		
<ul> <li>pump ramp down</li> </ul>	Yes		
<ul> <li>intrinsic device protection</li> </ul>	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		
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		
<ul> <li>firmware update</li> </ul>	Yes		
<ul> <li>removable terminal for control circuit</li> </ul>	Yes		
torque control	No		
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature		
	HMI)		
Power Electronics			
operational current			
• at 40 °C rated value	47 A		
• at 50 °C rated value	42 A		
at 60 °C rated value	36 A		
operational current at inside-delta circuit			
• at 40 °C rated value	81.4 A		
• at 50 °C rated value	72 A		
• at 60 °C rated value	62.7 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	11 kW		

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Operating frequency 1 rated value         60 Hz           Operating frequency 2 rated value         60 Hz           Operating frequency 2 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           eitrotary coding switch on switch position 1         20 A           eitrotary coding switch on switch position 2         21.8 A           eitrotary coding switch on switch position 5         27.2 A           eitrotary coding switch on switch position 6         29.4 A           eitrotary coding switch on switch position 6         29.4 A           eitrotary coding switch on switch position 6         29.4 A           eitrotary coding switch on switch position 1         38.8 A           eitrotary coding switch on switch position 1         38.4 A           eitrotary coding switch on switch position 1         38.4 A           eitrotary coding switch on switch position 1         38.4 A           eitrotary coding switch on switch position 1         34.4 A           eitrotary coding switch on switch position 1         34.7 A           eitrotary coding switch on switch position 1         45.2 A           eitrotary coding switch on switch position 1         47.4 A           eitrotary coding switch on switch position 1         47.4 A           eitrotary coding switch on switch position 1		
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<ul> <li>at rolary coding switch on switch position 15</li> <li>at rolary coding switch on switch position 15</li> <li>at rolary coding switch on switch position 16</li> <li>at rolary coding switch on switch position 16</li> <li>adjustable motor current</li> <li>adjustable motor current</li> <li>adjustable motor current</li> <li>adjustable motor current</li> <li>adjustable delta circuit at rolary coding switch on switch position 1</li> <li>adjustable delta circuit at rolary coding switch on switch position 1</li> <li>adjustable delta circuit at rolary coding switch on switch position 4</li> <li>adjustable delta circuit at rolary coding switch on switch position 5</li> <li>af rinside-delta circuit at rolary coding switch on switch position 5</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 5</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 7</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 7</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 7</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 9</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 10</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 11</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 12</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 12</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 13</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 13</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 13</li> <li>af roi rinside-delta circuit at rolary coding switch on switch position 13</li> <li>bi roi rinside-delta circuit at rolary coding switch on switch position 14</li> <li>bi</li></ul>	, , , , , , , , , , , , , , , , , , , ,	
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• minimum20 Aadjustable motor current • for inside-delta circuit at rotary coding switch on switch position 134.6 A• for inside-delta circuit at rotary coding switch on switch position 237.8 A• for inside-delta circuit at rotary coding switch on switch position 340.9 A• for inside-delta circuit at rotary coding switch on switch position 447.1 A• for inside-delta circuit at rotary coding switch on switch position 550.2 A• for inside-delta circuit at rotary coding switch on switch position 650.2 A• for inside-delta circuit at rotary coding switch on switch position 750.2 A• for inside-delta circuit at rotary coding switch on switch position 750.2 A• for inside-delta circuit at rotary coding switch on switch position 750.2 A• for inside-delta circuit at rotary coding switch on switch position 750.6 A• for inside-delta circuit at rotary coding switch on switch position 1050.6 A• for inside-delta circuit at rotary coding switch on switch position 1150.6 A• for inside-delta circuit at rotary coding switch on switch position 1252.8 A• for inside-delta circuit at rotary coding switch on switch position 1352.2 A• for inside-delta circuit at rotary coding switch on switch position 1472.1 A• for inside-delta circuit at rotary coding switch on switch position 1572.2 A• for inside-delta circuit at rotary coding switch on switch position 1575.2 A• for inside-delta circuit at rotary coding switch on switch position 1676.3 A• for ins		
adjustable motor current <ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <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 position 6</li> <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 position 7</li> <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 position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit</li></ul>		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <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 position 7</li> <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 position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rota</li></ul>		
witch position 240.9 A• for inside-delta circuit at rotary coding switch on switch position 440.9 A• for inside-delta circuit at rotary coding switch on switch position 544 A• for inside-delta circuit at rotary coding switch on switch position 547.1 A• for inside-delta circuit at rotary coding switch on switch position 550.2 A• for inside-delta circuit at rotary coding switch on switch position 750.2 A• for inside-delta circuit at rotary coding switch on switch position 756.5 A• for inside-delta circuit at rotary coding switch on switch position 756.5 A• for inside-delta circuit at rotary coding switch on switch position 1059.6 A• for inside-delta circuit at rotary coding switch on switch position 1162.7 A• for inside-delta circuit at rotary coding switch on switch position 1262.8 A• for inside-delta circuit at rotary coding switch on switch position 1262.7 A• for inside-delta circuit at rotary coding switch on switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit a	• for inside-delta circuit at rotary coding switch on	34.6 A
witch position 344 A• for inside-delta circuit at rotary coding switch on switch position 544 A• for inside-delta circuit at rotary coding switch on switch position 547.1 A• for inside-delta circuit at rotary coding switch on switch position 750.2 A• for inside-delta circuit at rotary coding switch on switch position 753.3 A• for inside-delta circuit at rotary coding switch on switch position 756.5 A• for inside-delta circuit at rotary coding switch on switch position 859.6 A• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1264.8 A• for inside-delta circuit at rotary coding switch on switch position 1365.8 A• for inside-delta circuit at rotary coding switch on switch position 1367.2 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1576.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at		37.8 A
switch position 447.1 A• for inside-delta circuit at rotary coding switch on switch position 550.2 A• for inside-delta circuit at rotary coding switch on switch position 653.3 A• for inside-delta circuit at rotary coding switch on switch position 756.5 A• for inside-delta circuit at rotary coding switch on switch position 859.6 A• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1065.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1172.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1481.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit at rotary coding switch on switch position 1634.6 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at 40 °C after startup26 W		40.9 A
switch position 5Summary coding switch on switch position 6• for inside-delta circuit at rotary coding switch on switch position 753.3 A• for inside-delta circuit at rotary coding switch on switch position 856.5 A• for inside-delta circuit at rotary coding switch on switch position 859.6 A• for inside-delta circuit at rotary coding switch on switch position 962.7 A• for inside-delta circuit at rotary coding switch on switch position 1065.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1167.9 A• for inside-delta circuit at rotary coding switch on switch position 1167.9 A• for inside-delta circuit at rotary coding switch on switch position 1267.9 A• for inside-delta circuit at rotary coding switch on switch position 1367.9 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• for inside-delta circuit at rotary coding switch on switch position 1654.6 A• at inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit at rotary coding switch on switch position 1634.6 A <td></td> <td>44 A</td>		44 A
switch position 653.3 A• for inside-delta circuit at rotary coding switch on switch position 756.5 A• for inside-delta circuit at rotary coding switch on switch position 859.6 A• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1373.2 A• for inside-delta circuit at rotary coding switch on switch position 1374.4• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1674.4• for inside-delta circuit at rotary coding switch on switch position 1575.2 A• for inside-delta circuit at rotary coding switch on switch position 1678.3 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at 10 °C after starup26 W	switch position 5	
switch position 75• for inside-delta circuit at rotary coding switch on switch position 856.5 A• for inside-delta circuit at rotary coding switch on switch position 959.6 A• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• at inside-delta circuit at rotary coding switch on switch position 1634.6 A• at 40 °C after startup26 W	switch position 6	
switch position 859.6 A• for inside-delta circuit at rotary coding switch on switch position 1059.6 A• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1265.8 A• for inside-delta circuit at rotary coding switch on switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit minimum34.6 A• at 40 °C after startup26 W	switch position 7	
switch position 962.7 A• for inside-delta circuit at rotary coding switch on switch position 1065.8 A• for inside-delta circuit at rotary coding switch on switch position 1168.9 A• for inside-delta circuit at rotary coding switch on switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit minimum34.6 A• at 0 °C after startup26 W	switch position 8	
switch position 106• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC • at 40 °C after startup26 W	switch position 9	
switch position 116• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit minimum34.6 A• at 40 °C after startup26 W	switch position 10	
switch position 1272.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1581.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit minimum34.6 A• at 40 °C after startup26 W	switch position 11	
• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit minimum34.6 Aminimum load [%]15 %; Relative to smallest settable le• at 40 °C after startup26 W	<ul><li>switch position 12</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	72.1 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 switch position 16</li> <li>at inside-delta circuit minimum</li> <li>34.6 A</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>26 W</li> </ul>	<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	75.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>at inside-delta circuit minimum</li> <li>34.6 A</li> <li>34.6 I</li> <li>35%; Relative to smallest settable le</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>26 W</li> </ul>	<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	78.3 A
• at inside-delta circuit minimum34.6 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC26 W	<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	81.4 A
minimum load [%]       15 %; Relative to smallest settable le         power loss [W] for rated value of the current at AC       26 W	•	34.6 A
power loss [W] for rated value of the current at AC       • at 40 °C after startup       26 W		
• at 40 °C after startup 26 W		
		26 W
• at 60 °C after startup 23 W		23 W

power loss [W] at AC at current limitation 350 %					
<ul> <li>at 40 °C during startup</li> </ul>	606 W				
<ul> <li>at 50 °C during startup</li> </ul>	522 W				
<ul> <li>at 60 °C during startup</li> </ul>	438 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 about sizewit protection for control sizewit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature				
design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is				
Inputs/ Outputs	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply				
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is				
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 inputs for thermistor connection	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 inputs for thermistor connection number of digital 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 number of inputs for thermistor connection 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				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection number of digital outputs onot 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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	circuit breaker (Icu= 600 A); C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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	<pre>circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on</pre>				
Inputs/ Outputs number of digital inputs number of inputs for thermistor connection 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	<pre>circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply  1 0 3 2 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface</pre>				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         0         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         1         3 A         1 A				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         0         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         1         3 A         1 A				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         0         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         1         3 A         1 A         +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface         screw fixing         306 mm         185 mm         203 mm				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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	<ul> <li>circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply</li> <li>1</li> <li>0</li> <li>3</li> <li>2</li> <li>2 normally-open contacts (NO) / 1 changeover contact (CO)</li> <li>1</li> <li>3 A</li> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface</li> <li>screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> </ul>				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         • at the side	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface 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 inputs for thermistor connection         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         oforwards         odwnwards         odwnwards         odwnwards         odth side         weight without packaging	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         • 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface 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 inputs for thermistor connection         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         • 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 5 mm 5.2 kg				
Inputs/ Outputs         number of digital inputs         number of inputs for thermistor connection         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         • 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm				

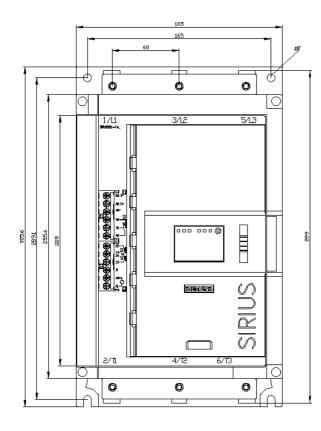
width of connection bar maximum	25 mm		
type of connectable conductor cross-sections			
for main contacts for box terminal using the front	1x (2.5 16 mm²)		
clamping point solid	X (2.3 10 IIIIIF)		
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)		
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)		
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)		
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)		
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)		
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)		
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)		
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)		
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)		
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)		
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>	4.5 6 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>	40 53 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			
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C		
environmental category			
• during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must 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			
<ul> <li>PROFINET standard</li> </ul>	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			

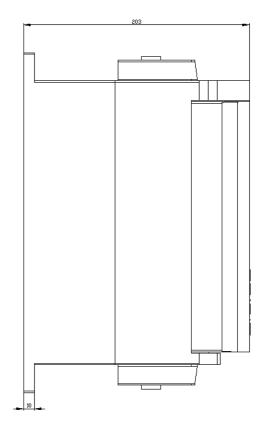
manufacturer's artic						
<ul> <li>of circuit brea</li> </ul>		00 V (				
according to			Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA			
— usable for to UL	r High Faults at 460/480 V	according	Siemens type: 3VA51, I	Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
	r Standard Faults at 460/4 circuit according to UL	80 V at	Siemens type: 3VA51, max. 90 A; Iq = 5 kA			
	r High Faults at 460/480 V according to UL	' at inside-	Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
<ul> <li>— usable for according to</li> </ul>	r Standard Faults at 575/6 UL	00 V	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA			
	r Standard Faults at 575/6 circuit according to UL	00 V at	Siemens type: 3VA51, I	max. 90 A; Iq = 5 kA		
<ul> <li>of the fuse</li> </ul>						
<ul> <li>— usable for according to</li> </ul>	r Standard Faults up to 57 UL	5/600 V	Type: Class RK5 / K5, r	max. 175 A; Iq = 5 kA		
<ul> <li>— usable for according to</li> </ul>	r High Faults up to 575/60 UL	0 V	Type: Class J / L, max.	175 A; Iq = 100 kA		
	r Standard Faults at inside 575/600 V according to Ul		Type: Class RK5 / K5, r	Type: Class RK5 / K5, max. 175 A; Iq = 5 kA		
to 575/600 V	r High Faults at inside-delt / according to UL	ta circuit up	Type: Class J / L, max.	Type: Class J / L, max. 175 A; Iq = 100 kA		
	p] for 3-phase motors					
• at 200/208 V a	t 50 °C rated value		10 hp			
	t 50 °C rated value		10 hp			
	t 50 °C rated value		30 hp			
value	t inside-delta circuit at 50		20 hp			
value	t inside-delta circuit at 50		25 hp			
value	t inside-delta circuit at 50		50 hp			
_	ixiliary contacts accordi	ng to UL	R300-B300			
Safety related data						
· · · · ·	on the front acc. to IEC		IP00; IP20 with cover			
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2				
electromagnetic co			In accordance with IEC	60947-4-2		
Certificates/ approva	IS	_				
General Product A	pproval			EMC	Declaration of Conformity	
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Q.	(m)	৻৻৻	L HL	$\sim$	Ce	
CSA	ccc	UL		RCM	EG-Konf.	
<b>T</b> ( <b>C</b> ( <b>N</b> )						
Test Certificates	Marine / Shipping					
<u>Type Test Certific-</u> ates/Test Report	<b>A</b>		Lloydis	65)	Annual 1	
	ABS			PRS	DNV-GL	
		VERITAS	I			
other						
Confirmation						
<b>Confirmation</b>						

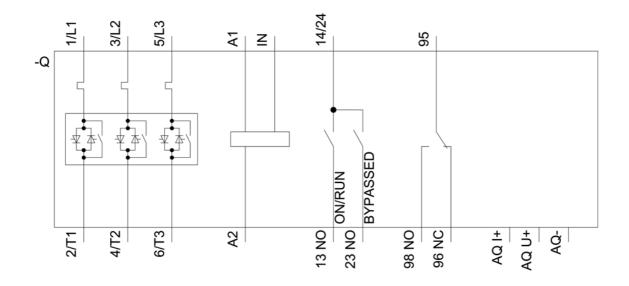
## Further information

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=3RW5224-1AC14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5224-1AC14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5224-1AC14&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC14/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5224-1AC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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