## **SIEMENS**

product brand name product category

Data sheet 3RW5224-1TC15

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-600 V 47 A, 110-250 V AC Screw terminals Thermistor input

product category	Tryblia 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>	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
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	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
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3824-6; 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>	3NE1021-2; 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>	3NE8024-1; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul><li> is supported HMI-Standard</li><li> is supported HMI-High Feature</li></ul>	
	Yes
• is supported HMI-High Feature	Yes Yes
is supported HMI-High Feature  product feature integrated bypass contact system	Yes Yes Yes
is supported HMI-High Feature  product feature integrated bypass contact system  number of controlled phases	Yes Yes Yes 3
is supported HMI-High Feature  product feature integrated bypass contact system  number of controlled phases  trip class	Yes Yes Yes 3

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	1 800 V		
service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for protective separation	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 g / 11 ms, from 12 g / 11 ms with potential contact litting		
utilization category according to IEC 60947-4-2	AC 53a		
reference code according to IEC 81346-2	Q Q		
Substance Prohibitance (Date)	02/15/2018		
product function	V2. 10.20 10		
• 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		
via software configurable	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			
• at 40 °C rated value	47 A		
at 50 °C rated value	41.6 A		
at 60 °C rated value	36.2 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	000 0001/		
• rated value	200 600 V		
at inside-delta circuit rated value  Taletina possitiva toloranae of the approximated to the second to the se	200 600 V		
relative negative telerance of the operating voltage	-15 % -10 %		
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		
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	22 kW		
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	22 kW		
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	45 kW		
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	30 kW		
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	45 kW		

Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	20 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	21.8 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	23.6 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	25.4 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	27.2 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	29 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	30.8 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	32.6 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	34.4 A
at rotary coding switch on switch position 10	36.2 A
at rotary coding switch on switch position 11	38 A
at rotary coding switch on switch position 12	39.8 A
at rotary coding switch on switch position 13	41.6 A
at rotary coding switch on switch position 14     at rotary coding switch on switch position 14	43.4 A
	45.4 A
at rotary coding switch on switch position 15     at rotary coding switch on switch position 16	45.2 A 47 A
at rotary coding switch on switch position 16	
• minimum	20 A
ofor inside-delta circuit at rotary coding switch on switch position 1	34.6 A
for inside-delta circuit at rotary coding switch on switch position 2	37.8 A
for inside-delta circuit at rotary coding switch on switch position 3	40.9 A
for inside-delta circuit at rotary coding switch on switch position 4	44 A
for inside-delta circuit at rotary coding switch on switch position 5	47.1 A
• for inside-delta circuit at rotary coding switch on switch position 6	50.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	53.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	56.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	59.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	62.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	65.8 A
for inside-delta circuit at rotary coding switch on switch position 12	68.9 A
for inside-delta circuit at rotary coding switch on switch position 13	72.1 A
<ul> <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</li> </ul>	75.2 A 78.3 A
position 15  • for inside-delta circuit at rotary coding switch on switch	81.4 A
position 16  • at inside-delta circuit minimum	34.6 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	26 W
•	26 W
• at 50 °C after startup	
• at 60 °C after startup	23 W
power loss [W] at AC at current limitation 350 %	000144
<ul> <li>at 40 °C during startup</li> </ul>	606 W
• at 50 °C during startup	522 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	-15 %			
AC at 50 Hz	10 %			
AC at 50 Hz	-15 %			
AC at 60 Hz relative positive tolerance of the control supply voltage at	10 %			
AC at 60 Hz  control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage	-10 %			
frequency				
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	30 mA			
holding current in bypass operation rated value	75 mA			
inrush current by closing the bypass contacts 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 digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	0			
switching capacity current of the relay outputs				
• 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface			
fastening method	screw fixing			
height	306 mm			
width	185 mm			
depth	203 mm			
required spacing with side-by-side mounting				
• forwards	10 mm			
• backwards	0 mm			
• upwards	100 mm			
• downwards	75 mm			
• at the side	5 mm			
weight without packaging	5.2 kg			
Connections/ Terminals				
type of electrical connection				
for main current circuit	box terminal			
for control circuit	screw-type terminals			
width of connection bar maximum	25 mm			
wire length for thermistor connection				
• with conductor cross-section = 0.5 mm² maximum	50 m			
• with conductor cross-section = 1.5 mm² maximum	150 m			
with conductor cross-section = 2.5 mm² maximum	250 m			
type of connectable conductor cross-sections	4 (0.5 40 0)			
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)			

<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)		
for main contacts for box terminal using the front	1x (10 70 mm²)		
<ul> <li>clamping point stranded</li> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)		
for AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)		
for main contacts for box terminal using both clamping points solid	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>for 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		
at the digital inputs at AC maximum	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</li> </ul>	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in		
for auxiliary and control contacts with screw-type	7 10.3 lbf·in		
terminals			
Ambient conditions			
	5 000 m. Danetina an ef 4000 m. and anti-lan		
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
ambient temperature  • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
<ul><li>ambient temperature</li><li>during operation</li><li>during storage and transport</li></ul>			
ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C		
<ul><li>ambient temperature</li><li>during operation</li><li>during storage and transport</li></ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
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ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
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ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A		
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ambient temperature  • during operation • during storage and transport  environmental category • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes		
ambient temperature  • during operation • during storage and transport  environmental category • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes		
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ambient temperature  • during operation • during storage and transport  environmental category • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA		
ambient temperature  • during operation • during storage and transport  environmental category • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		

of the fuse		
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 175 A; Iq = 5 kA	
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 175 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. 175 A; Iq = 5 kA	
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 175 A; Iq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	10 hp	
• at 220/230 V at 50 °C rated value	10 hp	
• at 460/480 V at 50 °C rated value	30 hp	
• at 575/600 V at 50 °C rated value	40 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value	20 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value	25 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value	50 hp	
• at 575/600 V at inside-delta circuit at 50 °C rated value	60 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
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

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5224-1TC15

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5224-1TC15}$ 

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

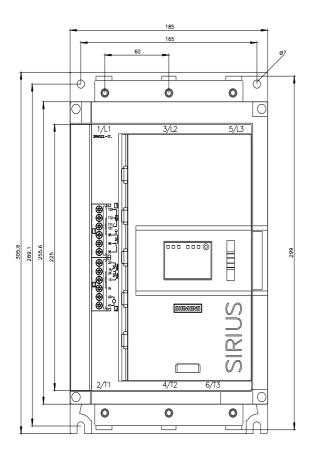
https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1TC15

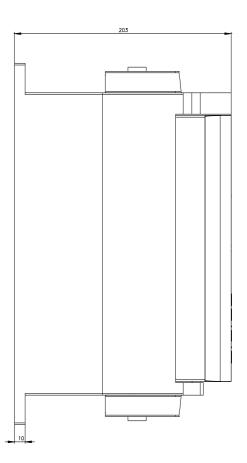
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

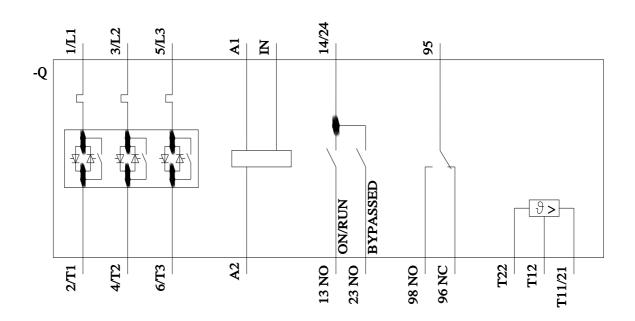
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5224-1TC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1TC15/char

Characteristic: Installation altitude







last modified: 1/14/2023 🖸

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RW52241TC15