# SIEMENS

### Data sheet

## 3RW5215-1AC14

SIRIUS soft starter 200-480 V 25 A, 110-250 V AC Screw terminals Analog output



Product brand name	SIRIUS
Product category	Hybrid switching devices
Product designation	Soft starter
Manufacturer's article number	
<ul> <li>of HMI module usable</li> </ul>	3RW5980-0HS00
<ul> <li>of HMI-Modul high-feature 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
• of circuit breaker usable at 400 V	3RV2032-4EA10; Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
• of the gG fuse usable up to 690 V	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA

• of full range R fuse link for semiconductor
protection usable up to 690 V

• of back-up R fuse link for semiconductor protection usable up to 690 V

#### 3NE1817-0; Type of coordination 2, Iq = 65 kA

3NE8021-1; Type of coordination 2, Iq = 65 kA

General technical data	
Starting voltage [%]	30 100 %
Start-up ramp time of soft starter	0 20 s
Current limiting value [%] adjustable	130 700 %
Product component	
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
Product feature integrated bypass contact system	Yes
Number of controlled phases	3
Trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
Insulation voltage	
• rated value	600 V
Impulse voltage rated value	6 kV
Blocking voltage of the thyristor maximum	1 600 V
Service factor	1
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
Protection class IP	IP20
Usage category acc. to IEC 60947-4-2	AC 53a
Shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
Reference code acc. to DIN EN 81346-2	Q
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
• 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>via software configurable</li> </ul>	Yes
-	

immune update         module           • emovable terminal for control circuit         Yes           • enovable terminal for control circuit         Yes           • endo "C rated value         25 A           • endo "C rated value         25 A           • endo "C rated value         35 A           • endo "C rated value         39 A           • endo "C rated value         39 A           • endo "C rated value         200 480 V           • endo "C rated value         200 480 V           • endo value         15 %           Relative negative tolerance of the operating voltage         15 %           Relative positive tolerance of the operating voltage         15 %           Relative positive tolerance of the operating voltage         15 %           Relative positive tolerance of the operating voltage         15 %           • endo Vol 1 40 °C rated value         55 KW	PROFlenergy	Yes; in connection with the PROFINET Standard communication
<ul> <li>emovable terminal for control circuit</li> <li>emovable terminal for control circuit</li> <li>Yes</li> <li>analog output</li> <li>Yes, 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> <li>Power Electronics</li> <li>25 A</li> <li>at 40 °C rated value</li> <li>25 A</li> <li>at 60 °C rated value</li> <li>26 A</li> <li>23 A</li> <li>at 60 °C rated value</li> <li>26 A</li> <li>39 A</li> <li>at 60 °C rated value</li> <li>200 480 V</li> <li>at 60 °C rated value</li> <li>200 480 V</li> <li>at inside-deita circuit rated value</li> <li>200 480 V</li> <li>at inside-deita circuit rated value</li> <li>10 %</li> <li>Relative positive tolerance of the operating voltage</li> <li>15 %</li> <li>Relative positive tolerance of the operating voltage</li> <li>at 230 V at 40 °C rated value</li> <li>35 KW</li> <li>at 230 V at 40 °C rated value</li> <li>35 KW</li> <li>at 230 V at 40 °C rated value</li> <li>35 KW</li> <li>at 230 V at 40 °C rated value</li> <li>36 KW</li> <li>at 40 °C rated value</li> <li>35 KW</li> <li>at 230 V at 40 °C rated value</li> <li>36 KW</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>36 KW</li> <li>at 40 °C rated value</li> <li>37 K</li> <li>at 30 V at 40 °C rated value</li> <li>38 KW</li> <li>at 40 °C rated value</li> <li>39 K</li> <li>30 %</li> <li>30 %<td></td><td>module</td></li></ul>		module
• analog output       Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)         Power Electronics	• firmware update	Yes
Feature HMI)           Power Electronics           Operating current         25 A           • at 40 °C rated value         25 A           • at 60 °C rated value         19.6 A           Operating current at Inside-delta circuit         39.A           • at 60 °C rated value         39.A           • at 60 °C rated value         39.A           • at 60 °C rated value         200 480 V           • at 60 °C rated value         200 480 V           • at 60 °C rated value         200 480 V           • at at orde value         200 480 V           • at inside-delta circuit rated value         200 480 V           • at inside-delta circuit rated value         200 480 V           • at inside-delta circuit rated value         200 480 V           • at inside-delta circuit rated value         10 %           Relative negative tolerance of the operating voltage at inside-delta circuit rated value         10 %           • at 230 V at 40 °C rated value         11 kW           • at 230 V at 40 °C rated value         55 kW           • at 400 V at inside-delta circuit at 40 °C rated value         11 kW           • at 400 V at inside-delta circuit at 40 °C rated value         60 Hz           • at 400 V at inside-delta circuit at 40 °C rated value         10 %	<ul> <li>removable terminal for control circuit</li> </ul>	Yes
Operating current         25 A           • at 40 °C rated value         25 A           • at 50 °C rated value         22.3 A           • at 60 °C rated value         29.6 A           Operating current at inside-delta circuit         39.A           • at 50 °C rated value         39.A           • at 50 °C rated value         39.A           • at 50 °C rated value         30.A           • at 60 °C rated value         200 480 V           • at solide-delta circuit rated value         200 480 V           • at inside-delta circuit rated value         200 480 V           Relative negative tolerance of the operating voltage         15 %           Relative negative tolerance of the operating voltage         15 %           rated value         10 %           Relative negative tolerance of the operating voltage at inside-delta circuit         10 %           Relative negative tolerance of the operating voltage at inside-delta circuit at 40 °C rated         11 kW           • at 230 V at 40 °C rated value         5.5 kW           • at 230 V at 40 °C rated value         11 kW           • at 400 V at inside-delta circuit at 40 °C rated         11 kW           • at 400 V at oric rated value         60 Hz           Relative negative tolerance of the operating frequency         10 %      <	<ul> <li>analog output</li> </ul>	
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at 80 °C rated value       19.6 A         Operating current at inside-delta circuit       43.3 A         at 40 °C rated value       39 A         at 60 °C rated value       39 A         at 60 °C rated value       39 A         at 60 °C rated value       200 480 V         at 60 °C rated value       200 480 V         at 60 °C rated value       200 480 V         at rated value       10 %         Relative positive tolerance of the operating voltage at inside-delta circuit       10 %         at 230 V at 40 °C rated value       5.5 kW         at 230 V at 40 °C rated value       11 kW         at 400 V at 40 °C rated value       60 Hz         At 400 V at 40 °C rated value       60 Hz         Relative negative tolerance of the operating frequency<	• at 40 °C rated value	25 A
Operating current at inside-delta circuit         43.3 A           • at 40 °C rated value         43.3 A           • at 50 °C rated value         39 A           • at 60 °C rated value         33.9 A           Operating voltage         200 480 V           • at ed value         200 480 V           • at inside-delta circuit rated value         200 480 V           • at inside-delta circuit rated value         200 480 V           Relative negative tolerance of the operating voltage         15 %           Relative negative tolerance of the operating voltage at inside-delta circuit         10 %           Note at 230 V at 40 °C rated value         5.5 kW           • at 230 V at 40 °C rated value         11 kW           • at 400 V at 40 °C rated value         18.5 kW           • at 400 V at 40 °C rated value         18.5 kW           • at 400 V at inside-delta circuit at 40 °C rated value         10 %           • at 400 V at inside-delta circuit at 40 °C rated value         11 kW           • at 400 V at inside-delta circuit at 40 °C rated value         10 %           • at 400 V at inside-delta circuit at 40 °C rated value         10 %           • at 400 V at inside-delta circuit at 40 °C rated value         10 %           • at 400 V at inside-delta circuit at 40 °C rated value         10 %	• at 50 °C rated value	22.3 A
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Relative positive tolerance of the operating voltage at inside-delta circuit       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 three-phase motors <ul> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>bt base delta circuit 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 or crated value</li> <li>bt base delta circuit at 40 °C rated value</li> <li>cat 400 V at inside-delta circuit at 40 °C rated value</li> <li>cat 400 V at inside-delta circuit at 40 °C rated value</li> <li>bt base delta circuit at 40 °C rated value</li> <li>cat 400 V at inside-delta circuit at 40 °C rated value</li> <li>cat 400 V at inside-delta circuit at 40 °C rated value</li> <li>cat 400 V at inside-delta circuit at 40 °C rated value</li> <li>con Hz</li> </ul> Operating frequency 1 rated value     50 Hz       Operating frequency 2 rated value               frequency               relative negative tolerance of the operating frequency               invinum               invinum               invinum               invinum load [%] <td< td=""><td><ul> <li>at inside-delta circuit rated value</li> </ul></td><td>200 480 V</td></td<>	<ul> <li>at inside-delta circuit rated value</li> </ul>	200 480 V
Relative negative tolerance of the operating voltage at inside-delta circuit       -15 %         Relative positive tolerance of the operating voltage at inside-delta circuit       10 %         Poperating power for three-phase motors       10 %         • at 230 V at 40 °C rated value       5.5 kW         • at 230 V at of °C rated value       11 kW         • at 400 V at 40 °C rated value       11 kW         • at 400 V at 0 °C rated value       18.5 kW         • at 400 V at inside-delta circuit at 40 °C rated value       18.5 kW         • at 400 V at inside-delta circuit at 40 °C rated value       60 Hz         Poperating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       10 %         Relative negative tolerance of the operating frequency       -10 %         Relative negative tolerance of the operating frequency       -10 %         Relative positive tolerance of the operating frequency       -10 %         • at inside-delta circuit minimum       11.5 A         • at inside-delta circuit minimum       15.5 k; Relative to smallest settable le         Power loss [W] for rated value of the current at AC       -10 %         • at 40 °C to power-up       20 W	Relative negative tolerance of the operating voltage	-15 %
at inside-delta circuit         Inside-delta circuit           Relative positive tolerance of the operating voltage at inside-delta circuit         10 %           Operating power for three-phase motors         .           • at 230 V at 40 °C rated value         5.5 kW           • at 230 V at inside-delta circuit at 40 °C rated value         11 kW           • at 400 V at 40 °C rated value         11 kW           • at 400 V at 0°C rated value         18.5 kW           • at 400 V at inside-delta circuit at 40 °C rated value         18.5 kW           • at 400 V at inside-delta circuit at 40 °C rated value         60 Hz           Operating frequency 1 rated value         60 Hz           Relative negative tolerance of the operating frequency         -10 %           frequency         -10 %           Relative positive tolerance of the operating frequency         -10 %           • at inside-delta circuit minimum         11.5 A           • at inside-delta circuit minimum         19.9 A           Minimum load [%]         15 %; Relative to smallest settable le           Power loss [W] for rated value of the current at AC         -           • at 40 °C to power-up         20 W	Relative positive tolerance of the operating voltage	10 %
Relative positive tolerance of the operating voltage at inside-delta circuit         10 %           Operating power for three-phase motors         .           • at 230 V at 40 °C rated value         5.5 kW           • at 230 V at 40 °C rated value         11 kW           • at 230 V at 40 °C rated value         11 kW           • at 400 V at 40 °C rated value         11 kW           • at 400 V at inside-delta circuit at 40 °C rated value         10 %           • Deprating frequency 1 rated value         50 Hz           Operating frequency 2 rated value         60 Hz           • Relative negative tolerance of the operating frequency         11.5 A           • minimum         11.5 A           • at inside-delta circuit minimum         15 %; Relative to smallest settable le           • Power loss [W] for rated value of the current at AC         20 W	Relative negative tolerance of the operating voltage	-15 %
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<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 40 °C rated value</li> <li>at 400 V at at 0 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>The W</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>50 Hz</li> <li>Operating frequency 1 rated value</li> <li>50 Hz</li> <li>Operating frequency 2 rated value</li> <li>60 Hz</li> <li>Relative negative tolerance of the operating frequency</li> <li>Relative positive tolerance of the operating frequency</li> <li>Adjustable motor current         <ul> <li>minimum</li> <li>at inside-delta circuit minimum</li> <li>11.5 A</li> <li>at inside-delta circuit minimum</li> <li>19.9 A</li> </ul> </li> <li>Minimum load [%]</li> <li>Power loss [W] for rated value of the current at AC         <ul> <li>at 0 °C to power-up</li> <li>20 W</li> </ul> </li> </ul>		5.5 kW
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Operating frequency 2 rated value60 HzRelative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current • minimum11.5 A• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC • at 40 °C to power-up20 W		
Relative negative tolerance of the operating frequency-10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current11.5 A• minimum11.5 A• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC • at 40 °C to power-up20 W	Operating frequency 1 rated value	50 Hz
frequencyImage: constraint of the operating frequency10 %Relative positive tolerance of the operating frequency10 %Adjustable motor current11.5 A• minimum11.5 A• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC20 W	Operating frequency 2 rated value	60 Hz
Adjustable motor current• minimum11.5 A• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC20 W		-10 %
• minimum11.5 A• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC • at 40 °C to power-up20 W	Relative positive tolerance of the operating frequency	10 %
• at inside-delta circuit minimum19.9 AMinimum load [%]15 %; Relative to smallest settable lePower loss [W] for rated value of the current at AC • at 40 °C to power-up20 W	Adjustable motor current	
Minimum load [%]     15 %; Relative to smallest settable le       Power loss [W] for rated value of the current at AC     20 W	• minimum	11.5 A
Power loss [W] for rated value of the current at AC       • at 40 °C to power-up       20 W	<ul> <li>at inside-delta circuit minimum</li> </ul>	19.9 A
• at 40 °C to power-up 20 W	Minimum load [%]	15 %; Relative to smallest settable le
	Power loss [W] for rated value of the current at AC	
• at 50 °C to power-up 19 W	● at 40 °C to power-up	20 W
	● at 50 °C to power-up	19 W

• at 60 °C to power-up

18 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 the by-pass mode operating rated value	75 mA
Starting current at close of by-pass contact maximum	0.17 A
Inrush current peak at connect of control supply voltage maximum	12.2 A
Duration of inrush current peak at connect 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

nputs/ 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

+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface

(mounting type)	screw fixing
Height	275 mm
Width	170 mm
Depth	152 mm
Required spacing with side-by-side mounting	
• forwards	10 mm
Backwards	0 mm
• upwards	100 mm
<ul> <li>downwards</li> </ul>	75 mm
• at the side	5 mm
Installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
Weight without packaging	2.1 kg
Connections/Terminals	
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
for control circuit	screw-type terminals
Type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 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 conductors 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
Ambient conditions	
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	
<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Communication/ Protocol	
Communication module is supported	

Communication module is supported

PROFINET standard	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
Manufacturer's article number	
• of fuse	
— at Standard Faults usable up to 575/600 V according to UL	Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
— at High Faults usable up to 575/600 V according to UL	Type: Class J / L, max. 100 A; Iq = 100 kA
<ul> <li>— at Standard Faults usable at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
— at High Faults usable at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 100 A; Iq = 100 kA
Operating power [hp] for three-phase motors	
• at 200/208 V at 50 °C rated value	5 hp
• at 220/230 V at 50 °C rated value	7.5 hp
• at 460/480 V at 50 °C rated value	15 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	10 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	10 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	25 hp
Contact rating of auxiliary contacts according to UL	R300-B300
General Product Approval	Declaration of Conformity
	<b>EFRE EG-Konf.</b> Miscellaneous

Test Certific- ates	Marine / Shipping	other
Type Test Certific- ates/Test Report	Llovd's Register LRS PRS	Confirmation

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-1AC14

#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-1AC14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC14

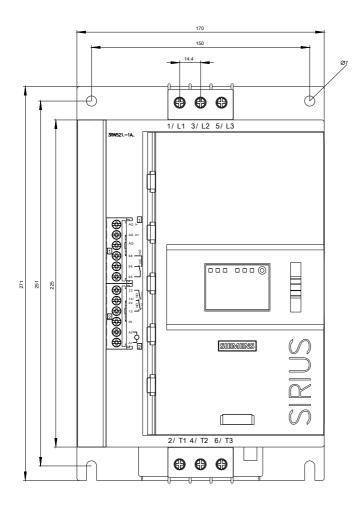
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5215-1AC14&lang=en

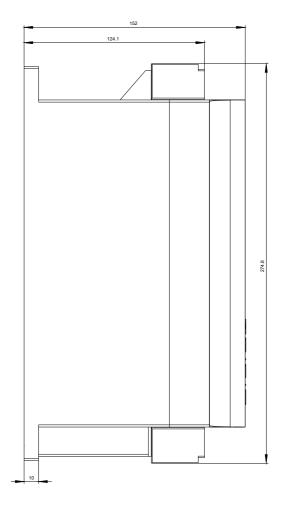
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

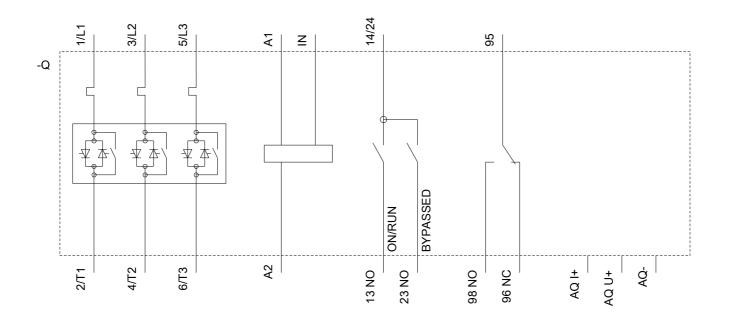
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC14/char

#### Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1AC14&objecttype=14&gridview=view1







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