SIEMENS

Data sheet 3RW5215-1TC15



SIRIUS soft starter 200-600 V 25 A, 110-250 V AC Screw terminals Thermistor input

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet 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

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3NA3822-6; Type of coordination 1, Iq = 65 kA

3NA3822-6; Type of coordination 1, Iq = 65 kA

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

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

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down intrinsic devices mante et in a	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
evaluation of thermistor motor protection	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
communication function	Yes
operating measured value display orrest lephock	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
error logbookvia software parameterizable	No
• via software configurable	Vac
via software configurablePROFlenergy	Yes Yes; in connection with the PROFINET Standard communication
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
PROFlenergyfirmware update	Yes; in connection with the PROFINET Standard communication module Yes
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No
 PROFlenergy firmware update removable terminal for control circuit torque control analog output 	Yes; in connection with the PROFINET Standard communication module Yes Yes
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics	Yes; in connection with the PROFINET Standard communication module Yes Yes No
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 25 A 22.3 A
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 125 A 22.3 A 19.6 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics Operational current At 40 °C rated value At 50 °C rated value At 60 °C rated value Torque control Torque control Torque control Torque control Torque	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 45 A 22.3 A 19.6 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics Operational current At 40 °C rated value At 50 °C rated value Toperational current at inside-delta circuit At 40 °C rated value Operational current at inside-delta circuit At 40 °C rated value Operational current at inside-delta circuit At 40 °C rated value Operational current at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 43.3 A 39 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value or at 60 °C rated value or at 60 °C rated value or at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 45 A 22.3 A 19.6 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics Operational current At 40 °C rated value At 60 °C rated value Toperational current at inside-delta circuit At 40 °C rated value Operational current at inside-delta circuit At 40 °C rated value The removable translation at the control of the c	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 425 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at value operational current at value operational current value operational current value operational current value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 43.3 A 39 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value operating voltage at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V -15 %
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value operating voltage at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V -15 % 10 %
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PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V -15 % 10 % -15 %
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PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operating voltage at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 25 A 22.3 A 19.6 A 43.3 A 39 A 33.9 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %

• at 500 V at inside-delta circuit at 40 °C rated value	22 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	
 at rotary coding switch on switch position 1 	11.5 A
at rotary coding switch on switch position 2	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
at rotary coding switch on switch position 4	14.2 A
at rotary coding switch on switch position 5	15.1 A
at rotary coding switch on switch position 6	16 A
at rotary coding switch on switch position 7	16.9 A
 at rotary coding switch on switch position 8 	17.8 A
 at rotary coding switch on switch position 9 	18.7 A
 at rotary coding switch on switch position 10 	19.6 A
 at rotary coding switch on switch position 11 	20.5 A
 at rotary coding switch on switch position 12 	21.4 A
 at rotary coding switch on switch position 13 	22.3 A
 at rotary coding switch on switch position 14 	23.2 A
 at rotary coding switch on switch position 15 	24.1 A
 at rotary coding switch on switch position 16 	25 A
• minimum	11.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	19.9 A
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
 for inside-delta circuit at rotary coding switch on switch position 4 	24.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 	29.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	30.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	32.4 A
 for inside-delta circuit at rotary coding switch on switch position 10 	33.9 A
for inside-delta circuit at rotary coding switch on switch position 11	35.5 A
for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on	37.1 A 38.6 A
for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on	
for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on	40.2 A 41.7 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on	41.7 A 43.3 A
 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum 	19.9 A
minimum load [%]	15.9 A 15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 /v, Holditto to officialist solicible to
• at 40 °C after startup	20 W
at 50 °C after startup	19 W
at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	376 W
at 50 °C during startup	318 W
at 60 °C during startup	278 W
Control circuit/ Control	

type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz • at 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency	
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voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency 10 %	
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency 10 %	
voltage frequency relative positive tolerance of the control supply voltage frequency 10 %	
relative positive tolerance of the control supply voltage frequency	
control supply current in standby mode rated value 30 mA	
holding current in bypass operation rated value 75 mA	
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 275 mm	
width 170 mm	
depth 152 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 2.1 kg	
Connections/ Terminals	
type of electrical connection	
• for main current circuit screw-type terminals	
• for control circuit screw-type terminals	
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	
• for main contacts	
— solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²)	
— finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
• at AWG cables for main current circuit solid 2x (16 12), 2x (14 8)	
type of connectable conductor cross-sections	
● for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) • for control circuit finely stranded with core end processing 1x (20 ... 12), 2x (20 ... 14) • at AWG cables for control circuit solid wire length • between soft starter and motor maximum 800 m 100 m · at the digital inputs at AC maximum tightening torque • for main contacts with screw-type terminals 2 ... 2.5 N·m for auxiliary and control contacts with screw-type 0.8 ... 1.2 N·m terminals tightening torque [lbf·in] • for main contacts with screw-type terminals 18 ... 22 lbf·in 7 ... 10.3 lbf·in for auxiliary and control contacts with screw-type Ambient conditions installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature during operation -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above · during storage and transport -40 ... +80 °C environmental category • during operation according 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 according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) **EMC** emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported PROFINET standard Yes • EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes **UL/CSA** ratings manufacturer's article number • of circuit breaker usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA according to UL - usable for High Faults at 460/480 V according Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 - usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA51, max. 60 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 100 A; Iq = 5 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 100 A; Iq = 100 kA according to UL Type: Class RK5 / K5, max. 100 A; Iq = 5 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 100 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 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 • at 575/600 V at 50 °C rated value 20 hp • at 200/208 V at inside-delta circuit at 50 °C rated 10 hp

value

• at 220/230 V at inside-delta circuit at 50 °C rated

10 hp

• at 460/480 V at inside-delta circuit at 50 °C rated

• at 575/600 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

25 hp

30 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP20

finger-safe, for vertical contact from the front

in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-1TC15

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5215-1TC15}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC15\&lang=en}}$

Characteristic: Tripping characteristics, I^2t , Let-through current

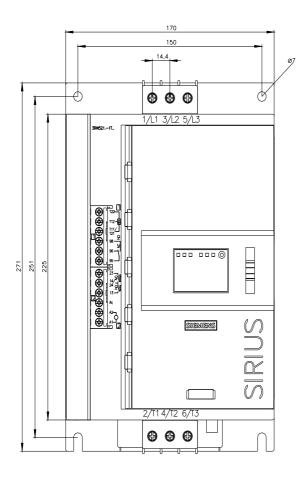
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15/char

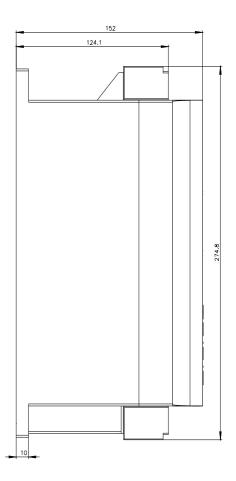
Characteristic: Installation altitude

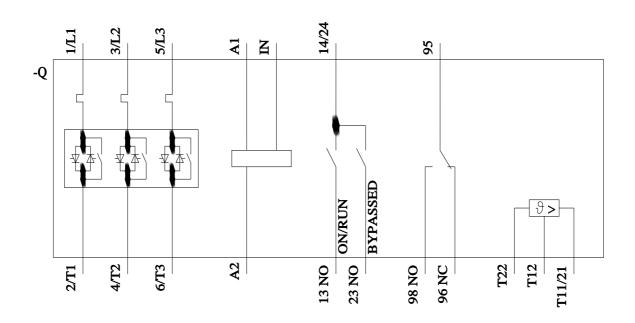
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5215-1TC15\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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