SIEMENS

Data sheet 3RW5247-6AC04



SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC Screw terminals Analog output

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

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

3NE1436-2; Type of coordination 2, Iq = 65 kA

3NE3340-8; 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

	100
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 	Yes
 intrinsic device protection 	Yes
 motor overload protection 	Yes; Electronic motor overload protection
 evaluation of thermistor motor protection 	No
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 	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
 via software parameterizable 	No
• via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
	module
firmware update	Yes
• ***	Yes
removable terminal for control circuit	res
•	No
• removable terminal for control circuit	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 removable terminal for control circuit torque control analog output 	No
removable terminal for control circuit torque control analog output Power Electronics	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
removable terminal for control circuit torque control analog output Power Electronics operational current	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A
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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A
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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A
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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A
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 at 50 °C rated value at 60 °C rated value operating voltage	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V
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 at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 %
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 %
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage at	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 %
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative 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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 %
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 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 at 60 °C rated value at inside-delta circuit rated value 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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 %
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 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 at 60 °C rated value at inside-delta circuit rated value relative 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 operating power for 3-phase motors	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %
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 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 at 60 °C rated value at inside-delta circuit rated value 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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value 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 at 230 V at inside-delta circuit at 40 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value 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 at 230 V at 40 °C rated value at 400 V at 40 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 132 kW 250 kW 250 kW
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 at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value 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 at 230 V at inside-delta circuit at 40 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %

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	200 A
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	218 A
at rotary coding switch on switch position 3 at rotary coding switch on switch position 3	236 A
at rotary coding switch on switch position 4	254 A
at rotary coding switch on switch position 5	272 A
at rotary coding switch on switch position 6	290 A
at rotary coding switch on switch position 7	308 A
at rotary coding switch on switch position 8	326 A
at rotary coding switch on switch position 9	344 A
at rotary coding switch on switch position 10	362 A
at rotary coding switch on switch position 11	380 A
at rotary coding switch on switch position 12	398 A
at rotary coding switch on switch position 13	416 A
 at rotary coding switch on switch position 14 	434 A
 at rotary coding switch on switch position 15 	452 A
 at rotary coding switch on switch position 16 	470 A
• minimum	200 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
 for inside-delta circuit at rotary coding switch on switch position 6 	502 A
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A
 for inside-delta circuit at rotary coding switch on switch position 8 	565 A
for inside-delta circuit at rotary coding switch on switch position 9	596 A
 for inside-delta circuit at rotary coding switch on switch position 10 	627 A
for inside-delta circuit at rotary coding switch on switch position 11	658 A
for inside-delta circuit at rotary coding switch on switch position 12	689 A
for inside-delta circuit at rotary coding switch on switch position 13	721 A
for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on the circuit at rotary coding switch on switch on the circuit at rotary coding switch on switch on the circuit at rotary coding switch on switch on the circuit at rotary coding switch on switch position 14.	752 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on	783 A 814 A
for inside-delta circuit at rotary coding switch on switch position 16 stingide delta circuit minimum	
 at inside-delta circuit minimum minimum load [%] 	346 A 15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 /v, 1 Clative to simalical settable le
• at 40 °C after startup	153 W
• at 50 °C after startup	137 W
• at 60 °C after startup	126 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	7 903 W
at 50 °C during startup	6 604 W
at 60 °C during startup	5 794 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	470 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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 digital autout varion	2
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 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	174
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height width	393 mm 210 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	9.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
type of connectable conductor cross-sections	
- for DIN cable lug for main contacts stranded	0 (50 0.402)
for DIN cable lug for main contacts stranded	2x (50 240 mm²)
• for DIN cable lug for main contacts finely stranded	2x (50 240 mm²) 2x (70 240 mm²)
	· · · · · · · · · · · · · · · · · · ·

 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length ● between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	14 24 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	124 210 lbf·in
 for auxiliary and control contacts with screw-type terminals 	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	o ooo iii, beraang ao or rooo iii, ooo oatalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
	above
during storage and transport	-40 +80 °C
environmental category	OVC (no ice formation onlyin-level
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 PROFINES	Yes
PROFIBUS	Yes
UL/CSA ratings manufacturer's article number	
of the fuse	
usable for Standard Faults up to 575/600 V according to UL	Type: Class J / L, max. 1600 A; Iq = 30 kA
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	150 hp
• at 220/230 V at 50 °C rated value	150 hp
 at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated 	350 hp 250 hp
value	200 1.10
 at 220/230 V at inside-delta circuit at 50 °C rated value 	250 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	600 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

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=3RW5247-6AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-6AC04\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

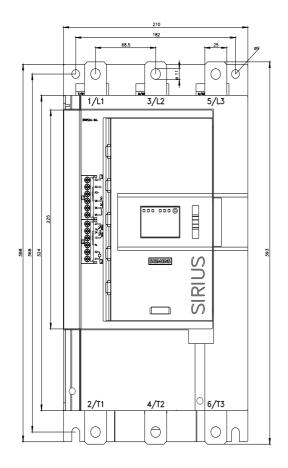
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04/char

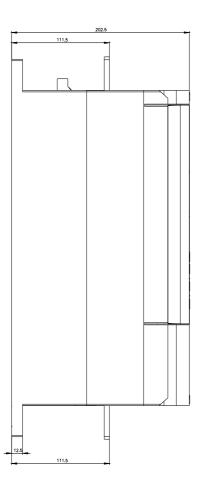
Characteristic: Installation altitude

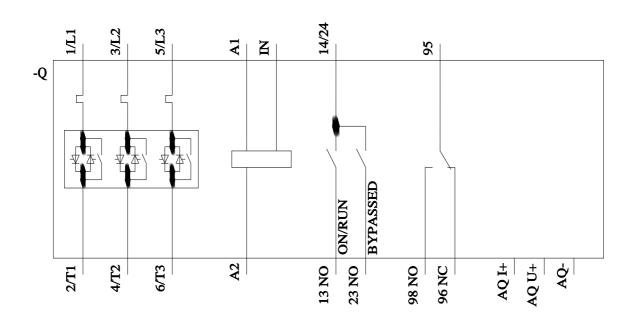
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-6AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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