# **SIEMENS**

Data sheet 3RW5545-2HF14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC, spring-type terminals Fail-safe

Figure similar

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

- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFINET high-feature 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
- of the redundant contactor for applications > SIL 1 according to EN 62061
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061
- of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1

**SIRIUS** 

Hybrid switching devices Failsafe soft starters 3RW55

3RW5980-0HF00 3RW5980-0CS00

3RW5950-0CH00

3RW5980-0CP00 3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2580-6HN32-0AA0; 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

3NE1334-2; Type of coordination 2, Iq = 65 kA

Type of coordination 2, Iq = 65 kA

3RT1076

3RT1076

3TF68

3TF68

## General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter ramp-down time of soft starter start torque [%] stopping torque [%] torque limitation [%]

20 ... 100 %

50 %; non-adjustable

0 ... 360 s

0 ... 360 s

10 ... 100 %

10 ... 100 % 20 ... 200 %



current limiting value [%] adjustable 125 ... 800 % 40 ... 100 % breakaway voltage [%] adjustable breakaway time adjustable 0 ... 2 s number of parameter sets 3 accuracy class according to IEC 61557-12 5 % certificate of suitability CE marking Yes Yes UL approval CSA approval Yes product component • HMI-High Feature Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases trip class CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current unbalance limiting value [%] 10 ... 60 % 10 ... 95 % ground-fault monitoring limiting value [%] buffering time in the event of power failure 100 ms • for main current circuit • for control circuit 100 ms idle time adjustable 0 ... 255 s insulation voltage rated value 480 V degree of pollution 3, acc. to IEC 60947-4-2 6 k\/ impulse voltage rated value blocking voltage of the thyristor maximum 1 400 V 1.15 service factor surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation • between main and auxiliary circuit 480 V; does not apply for thermistor connection shock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz recovery time after overload trip adjustable 60 ... 1 800 s utilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81346-2 0 11/22/2019 Substance Prohibitance (Date) product function • ramp-up (soft starting) Yes • ramp-down (soft stop) Yes Yes • breakaway pulse • adjustable current limitation Yes • creep speed in both directions of rotation Yes • pump ramp down Yes DC braking Yes Yes motor heating Yes • slave pointer function Yes trace function • intrinsic device protection Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta • 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 communication function Yes • operating measured value display Yes Yes event list error logbook Yes • via software parameterizable Yes • via software configurable Yes No screw terminal spring-loaded terminal Yes: in connection with the PROFINET Standard and PROFINET High-PROFlenergy



• firmware update • removable terminal for control circuit Yes Yes voltage ramp • torque control Yes · combined braking Yes Yes; 4 ... 20 mA (default) / 0 ... 10 V analog output programmable control inputs/outputs · condition monitoring Yes • automatic parameterisation Yes · application wizards Yes Yes alternative run-down • emergency operation mode Yes · reversing operation Yes · soft starting at heavy starting conditions Yes **Power Electronics** operational current 315 A at 40 °C rated value • at 40 °C rated value minimum 63 A • at 50 °C rated value 279 A • at 60 °C rated value 255 A operational current at inside-delta circuit • at 40 °C rated value 546 A • at 50 °C rated value 483 A • at 60 °C rated value 442 A operating voltage 200 ... 480 V rated value • at inside-delta circuit rated value 200 ... 480 V -15 % relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % inside-delta circuit 10 % relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors 90 kW • at 230 V at 40 °C rated value 160 kW • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value 160 kW • at 400 V at inside-delta circuit at 40 °C rated value 315 kW Operating frequency 1 rated value 50 Hz 60 Hz Operating frequency 2 rated value relative negative tolerance of the operating frequency -10 % 10 % relative positive tolerance of the operating frequency minimum load [%] 10 %; Relative to set le power loss [W] for rated value of the current at AC 95 W at 40 °C after startup 84 W • at 50 °C after startup • at 60 °C after startup 77 W power loss [W] at AC at current limitation 350 % • at 40 °C during startup 4 966 W • at 50 °C during startup 4 153 W • at 60 °C during startup 3 646 W type of the motor protection Electronic, tripping in the event of thermal overload of the motor Control circuit/ Control AC type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz 110 ... 250 V • at 60 Hz 110 ... 250 V relative negative tolerance of the control supply -15 % voltage at AC at 50 Hz relative positive tolerance of the control supply 10 % voltage at AC at 50 Hz relative negative tolerance of the control supply -15 % voltage at AC at 60 Hz

Feature communication modules



relative positive tolerance of the control supply	10 %
voltage at AC at 60 Hz	10 /0
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	40.0/
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	150 mA
inrush current by closing the bypass contacts	0.87 A
maximum	40 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control	1.6 ms
supply voltage	
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	4
• with fail-safe	1
parameterizable	4
number of digital outputs	3
Number of digital outputs with fail-safe	1
<ul> <li>number of digital outputs parameterizable</li> <li>number of digital outputs not parameterizable</li> </ul>	2
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
aigital output voicion	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
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
D	
Response times	400 mg
Response times  OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
OFF-delay time with safety-related request when switched	100 ms
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions	
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards  • backwards  • upwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m 150 m 250 m
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²)
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m 150 m 250 m
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²)
OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection spring-loaded terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²)



• at AWG cables for control circuit solid 2x (24 ... 16) 2x (24 ... 16) • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum 800 m 1 000 m • at the digital inputs at DC maximum tightening torque • for main contacts with screw-type terminals 14 ... 24 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 124 ... 210 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 2 000 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 module is supported PROFINET standard Yes • PROFINET high-feature 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: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL — usable for High Faults at 460/480 V according Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 to UL - usable for Standard Faults at 460/480 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA54, max. 600 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL - usable for High Faults at 575/600 V at inside-Siemens type: 3VA54, max. 600 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA inside-delta circuit according to UL • of the fuse usable for Standard Faults up to 575/600 V Type: Class J / L, max. 1000 A; Iq = 18 kA according to UL - usable for High Faults up to 575/600 V Type: Class J / L, max. 1000 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 1000 A; Iq = 18 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1000 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 75 hp • at 220/230 V at 50 °C rated value 100 hp • at 460/480 V at 50 °C rated value 200 hp • at 200/208 V at inside-delta circuit at 50 °C rated 150 hp value



• at 220/230 V at inside-delta circuit at 50 °C rated 200 hp • at 460/480 V at inside-delta circuit at 50 °C rated 400 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data safety device type according to IEC 61508-2 Type B B10d value 147 000 Safety Integrity Level (SIL) according to IEC 61508 SIL<sub>1</sub> SIL Claim Limit (subsystem) according to EN 62061 SIL 1 performance level (PL) according to EN ISO 13849-1 С category according to EN ISO 13849-1 2 0 stop category according to EN 60204-1 Safe failure fraction (SFF) 60 % average diagnostic coverage level (DCavg) 90 % diagnostics test interval by internal test function 1 000 s maximum 1E-6 1/h PFHD with high demand rate according to EN 62061 0.09 PFDavg with low demand rate according to IEC 61508 hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to 20 a IEC 61508 Open load circuit safe state protection class IP on the front according to IEC IP00; IP20 with cover 60529 finger-safe, for vertical contact from the front with cover touch protection on the front according to IEC 60529 acc. to IEC 60947-4-2 electromagnetic compatibility certificate of suitability ATEX Yes IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] 0 hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5E-7 1/h relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 SIL<sub>1</sub>

### Certificates/ approvals

relating to ATEX

#### **General Product Approval**

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX





Confirmation







EMC For use in hazardous locations Declaration of Conformity Test Certificates Marine / Shipping

3 a









Type Test Certificates/Test Report



Marine / Shipping other







#### **Further information**

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=3RW5545-2HF14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5545-2HF14}$ 

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HF14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5545-2HF14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

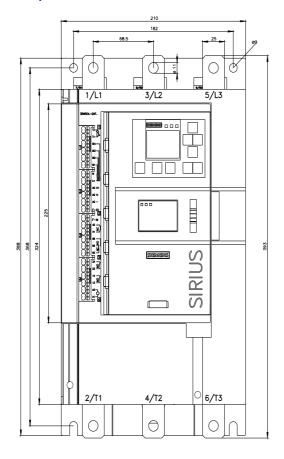
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HF14/char

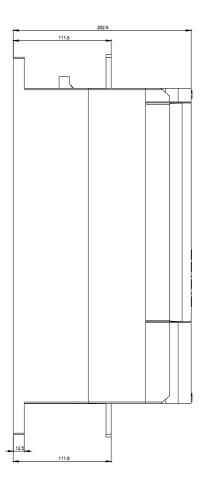
Characteristic: Installation altitude

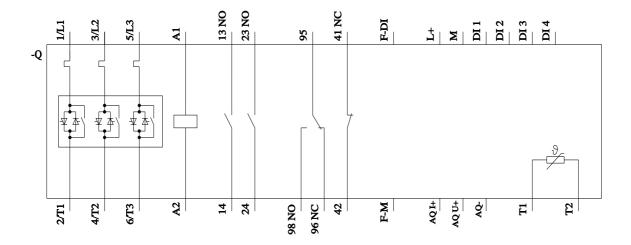
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545-2HF14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 2/3/2023 🖸

