## **SIEMENS**

product brand name

product category

Data sheet 3RW5543-2HA14

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC spring-type terminals





product category	Trybha switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
• of communication module PROFINET standard usable	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, lq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; Type of coordination 1, lq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1230-2; for supply systems up to 500 V; type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3333; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes

a CSA approval	Von
CSA approval  product component	Yes
product component	Vee
HMI-High Feature	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
• for main current circuit	100 ms
• 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
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	400 V. dans and small families in
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	Q
Substance Prohibitance (Date)  SVHC substance name	02/15/2018 Lead - 7439-92-1
	Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Dibutylbis(pentane-2,4-dionato-0,0')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
Weight	11.56 kg
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
<ul> <li>breakaway pulse</li> </ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
pump ramp down	Yes
DC braking	Yes
motor heating	Yes
min/max pointer	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	
• auto-RESET	Yes
• manual RESET	Yes Yes
• remote reset	
remote reset	Yes
remote reset     communication function	Yes Yes
	Yes Yes Yes
• communication function	Yes Yes Yes Yes
<ul><li>communication function</li><li>operating measured value display</li></ul>	Yes Yes Yes Yes Yes Yes
<ul><li>communication function</li><li>operating measured value display</li><li>event list</li></ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> </ul>	Yes

	communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
• condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	210 A
at 40 °C rated value minimum	42 A
at 50 °C rated value	186 A
at 60 °C rated value	170 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	364 A
at 50 °C rated value	322 A
at 60 °C rated value	294 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	55 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	110 kW
at 400 V at inside-delta circuit at 40 °C rated value	200 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 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	63 W
at 50 °C after startup	56 W
at 60 °C after startup  TOWARD LOSS THAT SET ACC at autment limitation 250 %	51 W
power loss [W] at AC at current limitation 350 %	2.550.14
• at 40 °C during startup	3 550 W
at 50 °C during startup     at 60 °C during startup	2 967 W
at 60 °C during startup  type of the mater protection	2 605 W
type of the motor protection  Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage  control supply voltage at AC	AU
at 50 Hz	110 250 V
• at 50 Hz	110 250 V 110 250 V
• at 60 Hz  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	100 mA
holding current in bypass operation rated value	150 mA
inrush current by closing the bypass contacts maximum	0.87 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 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	4
parameterizable	4
·	
• number of digital outputs	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable	1
digital output version	3 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	
Installation/ mounting/ dimensions mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
mounting position	
mounting position fastening method	screw fixing
mounting position fastening method height	screw fixing 393 mm
mounting position fastening method height width	screw fixing 393 mm 210 mm
mounting position fastening method height width depth	screw fixing 393 mm 210 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm
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	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
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	screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
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	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
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	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
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	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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
mounting position fastening method height width depth required spacing with side-by-side mounting	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)
mounting position fastening method height width depth required spacing with side-by-side mounting	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) 2x (0.25 1.5 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	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) 2x (0.25 1.5 mm²)

800 m
1 000 m
14 24 N·m
0.8 1.2 N·m
124 210 lbf·in
7 10.3 lbf-in
F000 P " (4000
5 000 m; Derating as of 1000 m, see catalog
-25 +60 °C; Please observe derating at temperatures of 40 °C or above
-40 +80 °C
3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
833 kg
95.3 kg
2.8 kg
756 kg
-21 kg
Siemens EcoTech
acc. to IEC 60947-4-2: Class A
Yes
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
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Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
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Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 100 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 100 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 100 kA
Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA  Type: Class J / L, max. 700 A; Iq = 10 kA

• at 220/230 V at inside-delta circuit at 50 °C rated value	125 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	250 hp
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	
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
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]

**Approvals Certificates** 

**General Product Approval** 

**EMV** 













**EMV** For use in hazardous locations **Test Certificates** 

Marine / Shipping

<u>KC</u>





Type Test Certificates/Test Report





Marine / Shipping

other

Environment





Confirmation







Environmental Con-firmations

## 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=3RW5543-2HA14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5543-2HA14}}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5543-2HA14

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

Characteristic: Tripping characteristics, I2t, Let-through current

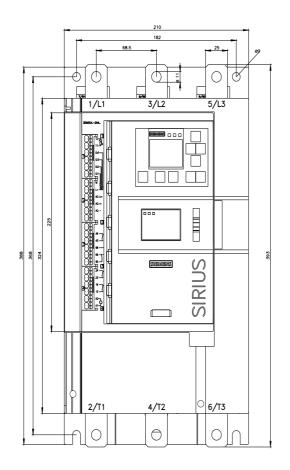
https://support.industry.siemens.com/cs/ww/en/ps/3RW5543-2HA14/char

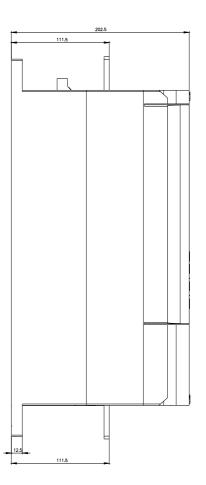
Characteristic: Installation altitude

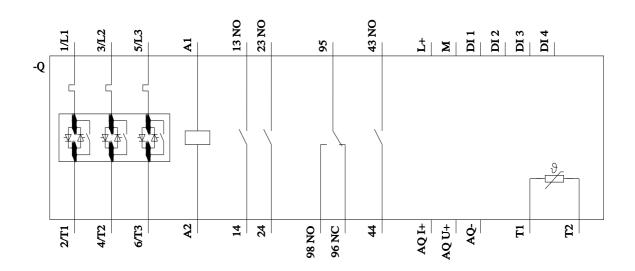
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5543-2HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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