SIEMENS

Data sheet

3RW5513-3HF14



SIRIUS soft starter 200-480 V 13 A, 110-250 V AC, spring-type terminals Fail-safe

Figuresi	milar
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product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4TA10: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10: Type of coordination 1, lq = 18 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1815-0: Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8017-1: Type of coordination 2. Iq = 65 kA</u>
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2027</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2027</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT2027</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT2027</u>
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
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	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
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	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
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)	11/22/2019
product function	
 ramp-up (soft starting) 	Yes
 ramp-down (soft stop) 	Yes
 breakaway pulse 	Yes
 adjustable current limitation 	Yes
 creep speed in both directions of rotation 	Yes
 pump ramp down 	Yes
DC braking	Yes
motor heating	Yes
slave pointer function	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.
 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
event list	Yes
error logbook	Yes
via software parameterizable	Yes
• via software configurable	Yes
screw terminal	No
 spring-loaded terminal 	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules

e firmularo undato	Yes
 firmware update removable terminal for control circuit 	Yes
	Yes
voltage ramp	Yes
torque controlcombined braking	Yes
-	
 analog output programmable control inputs/outputs 	Yes; 4 20 mA (default) / 0 10 V 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	
at 40 °C rated value	13 A
at 40 °C rated value minimum	2.5 A
at 50 °C rated value	11.5 A
at 60 °C rated value	10.5 A
operational current at inside-delta circuit	
at 40 °C rated value	22.5 A
at 50 °C rated value	19.9 A
at 60 °C rated value	18.2 A
operating voltage	10.2 A
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	-15 %
inside-delta circuit	
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	3 kW
• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
 at 200 V at 40 °C rated value 	5.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	11 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	4 W
• at 50 °C after startup	3 W
• at 60 °C after startup	3 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	198 W
• at 50 °C during startup	166 W
● at 60 °C during startup	148 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at	-15 %
AC at 50 Hz	40.07
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at	-15 %

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AC at 60 Hz	40.0/
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	165 mA
inrush current by closing the bypass contacts maximum	0.2 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
• with fail-safe	1
• parameterizable	4
 number of digital outputs 	3
 Number of digital outputs with fail-safe 	1
 number of digital outputs parameterizable 	2
 number of digital outputs not parameterizable 	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 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
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
motanation/ mounting/ unitensions	
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 275 mm
mounting position fastening method height width	screw fixing 275 mm 170 mm
mounting position fastening method height width depth	screw fixing 275 mm 170 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 275 mm 170 mm 152 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	screw fixing 275 mm 170 mm 152 mm 10 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	screw fixing 275 mm 170 mm 152 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 275 mm 170 mm 152 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 100 mm 75 mm 5 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	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 100 mm 75 mm 5 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	screw fixing 275 mm 170 mm 152 mm 0 mm 100 mm 100 mm 75 mm 5 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 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 control circuit • for control circuit wire length for thermistor connection	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 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 control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm ² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 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 wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg Screw-type terminals spring-loaded terminals 50 m 150 m
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 wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 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 control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 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 control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main current section = 2.5 mm² maximum • main contacts	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals 50 m 150 m 250 m

type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm ²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 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 	18 22 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	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	2 000 m, Doraling as or 1000 m, see calalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during operation orrespondences during storage and transport	-25 +60 °C
environmental category	
	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
during operation according to IEC 60721	(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, Class B on request
Communication/ Protocol	
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 according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
 usable for Standard Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
 usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
— usable for High Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V at inside- delta circuit according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
• of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 50 A; lq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 50 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	2 hp
• at 220/230 V at 50 °C rated value	3 hp
	· · · · · · · · · · · · · · · · · · ·

• at 460/480 V at 5	50 °C rated value	7.5 hp		
	nside-delta circuit at 50 °C rated value	5 hp		
	nside-delta circuit at 50 °C rated value	5 hp		
	nside-delta circuit at 50 °C rated value	10 hp		
	liary contacts according to UL	R300-B300		
Safety related data		1000-0000		
	cording to IEC 61508-2	Туре В		
B10d value		1 588 000		
Safety Integrity Level	(SII.)	1 300 000		
according to IEC		SIL1		
	ystem) according to EN 62061	SIL 1		
	according to EN ISO 13849-1	C		
category according to E		2		
stop category accordi		0		
Safe failure fraction (S		60 %		
average diagnostic co	•	90 %		
	val by internal test function maximum	1 000 s		
	id rate according to EN 62061	1E-6 1/h		
	and rate according to IEC 61508	0.09		
-	nce according to IEC 61508	0		
	interval or service life according to IEC	20 a		
safe state		Open load circuit		
	the front according to IEC 60529	IP20		
	he front according to IEC 60529	finger-safe, for vertical contact	from the front	
electromagnetic comp		acc. to IEC 60947-4-2		
ATEX				
certificate of suitabilit				
• ATEX		Yes		
• IECEx		Yes		
	EX directive 2014/34/EU	BVS 18 ATEX F 003 X		
	cording to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [I	Ex pxb Gb1 II (2)D [Ex tb	Db] [Ex pxb Db] (M2)
		[Ex db Mb]		2 °] [=/ p// 2 °], (=)
hardware fault toleran ATEX	nce according to IEC 61508 relating to	0		
PFDavg with low dem relating to ATEX	and rate according to IEC 61508	0.008		
		ng 5E-7 1/h		
to ATEX	nd rate according to EN 62061 relating			
Safety Integrity Level to ATEX	(SIL) according to IEC 61508 relating	SIL1		
Safety Integrity Level to ATEX T1 value for proof test	(SIL) according to IEC 61508 relating t interval or service life according to			
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to	(SIL) according to IEC 61508 relating t interval or service life according to	SIL1		
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals	(SIL) according to IEC 61508 relating t interval or service life according to ATEX	SIL1		
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to	(SIL) according to IEC 61508 relating t interval or service life according to ATEX	SIL1		
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals	(SIL) according to IEC 61508 relating t interval or service life according to ATEX	SIL1 3 a	(Ju)	FUL
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals	(SIL) according to IEC 61508 relating t interval or service life according to ATEX	SIL1 3 a	U L	EAC
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals	(SIL) according to IEC 61508 relating t interval or service life according to ATEX	SIL1 3 a 2011 2011 2011 2011 2011 2011 2011 201	UL Test Certificates	ERF Marine / Shipping
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals General Product Appr Cost	(SIL) according to IEC 61508 relating t interval or service life according to ATEX roval	SIL1 3 a	Type Test Certific-	ERC Marine / Shipping
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals General Product Appr Construction	(SIL) according to IEC 61508 relating t interval or service life according to ATEX roval	SIL1 3 a 2011 2011 2011 2011 2011 2011 2011 201		ERFC Marine / Shipping
Safety Integrity Level to ATEX T1 value for proof test IEC 61508 relating to A Certificates/ approvals General Product Appr Cost	(SIL) according to IEC 61508 relating t interval or service life according to ATEX roval Confirmation For use in hazardous locations	SIL1 3 a Declaration of Con- formity CEC	Type Test Certific-	EAC Marine / Shipping







Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5513-3HF14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5513-3HF14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-3HF14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5513-3HF14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

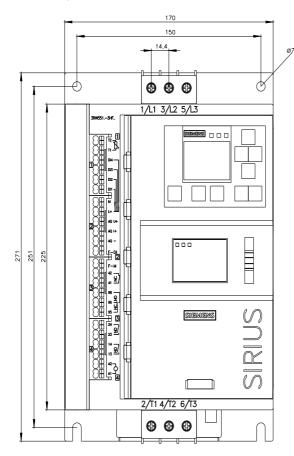
https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-3HF14/char

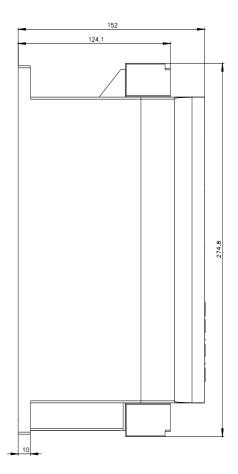
Characteristic: Installation altitude

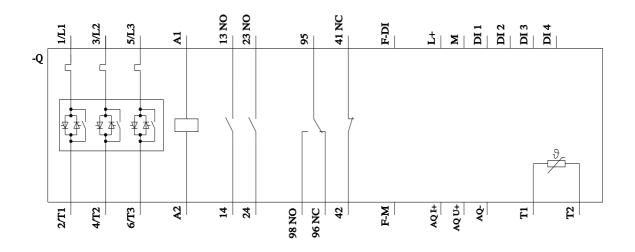
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5513-3HF14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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Siemens: <u>3RW55133HF14</u>