SIEMENS

Data sheet

3RW5513-3HA14



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

product brand name	SIRIUS				
product category	Hybrid switching devices				
product designation	Soft starter				
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, Iq = 18 kA, CLASS 10				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10</u>				
 of the gG fuse usable up to 690 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>				
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>				
 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>				
General technical data					
starting voltage [%]	20 100 %				
stopping voltage [%]	50 50 %				
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 acc. to IEC 61557-12	5 %				
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 %				
recovery time after overload trip adjustable	60 1 800 s				
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 safe isolation					
 between main and auxiliary circuit 	480 V; does not apply for thermistor connection				
utilization category acc. to IEC 60947-4-2	AC 53a				
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				
VIDIAION TESIStance					
reference code acc. to IEC 81346-2	Q				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)					
reference code acc. to IEC 81346-2	Q				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes				
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • inside-delta circuit • auto-RESET • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor eletta circuit • auto-RESET • remote reset • communication function • operating measured value display • event list	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function ramp-up (soft starting) ramp-down (soft stop) breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection evaluation of thermistor motor protection inside-delta circuit auto-RESET remote reset communication function operating measured value display event list error logbook via software parameterizable	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				

 spring-type terminal 	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-				
	Feature 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	40.4				
• 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					
 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 400 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	440 050 1/				
• at 50 Hz	110 250 V				

• at 60 Hz	110 250 V				
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	165 mA				
locked-rotor current at close of bypass contact 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				
• parameterizable	4				
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick				
number of digital outputs	4				
number of digital outputs parameterizable	3				
number of digital outputs not parameterizable	3				
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs					
switching capacity current of the relay outputs					
at AC-15 at 250 V rated value	3 A				
 at DC-13 at 24 V rated value 	1 A				
Installation/ mounting/ dimensions					
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)				
fastening method	screw fixing				
height	275 mm				
width	170 mm				
depth	152 mm				
required spacing with side-by-side mounting					
• forwards	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards	75 mm				
• at the side	5 mm				
weight without packaging	2.3 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
for control circuit	spring-loaded terminals				
wire length for thermistor connection					
 with conductor cross-section = 0.5 mm² maximum 	50 m				
• with conductor cross-section = 1.5 mm ² maximum	150 m				
• with conductor cross-section = 2.5 mm ² maximum	250 m				
type of connectable conductor cross-sections					

 for main contacts 					
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)				
 finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)				
 at AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections					
 for control circuit solid 	2x (0.25 1.5 mm²)				
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm ²)				
 at AWG cables for control circuit solid 	2x (24 16)				
 at 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	5 000 m; Derating as of 1000 m, see catalog				
ambient temperature					
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
 during storage and transport 	-40 +80 °C				
environmental category					
• during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4				
 during transport acc. 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; Iq 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; Iq = 5 kA				
of the fuse					

 — usable for Standard Faults up to 575 according to UL 	75/600 V Type: Class RK5 / K5, max. 50 A; Iq = 5 kA						
	V	Туре	Type: Class J / L, max. 50 A; lq = 100 kA				
	delta	Type: Class RK5 / K5, max. 50 A; lq = 5 kA					
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL		Туре	: Class J / L, max. 50 A	; lq = 100 kA			
operating power [hp] for 3-phase motors							
• at 200/208 V at 50 °C rated value				2 hn			
• at 220/230 V at 50 °C rated value		2 hp					
		3 hp					
• at 460/480 V at 50 °C rated value	0 1 1		7.5 hp				
• at 200/208 V at inside-delta circuit at 50 ° value			5 hp				
 at 220/230 V at inside-delta circuit at 50 ° value 			5 hp				
 at 460/480 V at inside-delta circuit at 50 ° value 			10 hp				
contact rating of auxiliary contacts accordin	g to UL	R300)-B300				
Safety related data							
protection class IP on the front acc. to IEC 6	0529	IP20					
touch protection on the front acc. to IEC 605			r-safe, for vertical conta	act from the front			
electromagnetic compatibility	20	-	to IEC 60947-4-2				
		acc.					
ATEX				_			
certificate of suitability							
• ATEX		Yes	ſes				
• IECEx		Yes					
according to ATEX directive 2014/34/EU		BVS	18 ATEX F 003 X				
type of protection according to ATEX directi 2014/34/EU	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], I (M2) [Ex db Mb]				
hardware fault tolerance acc. to IEC 61508 relating to ATEX		0					
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX		0.008					
PFHD with high demand rate acc. to EN 62061 relating to ATEX		0.0000005 1/h					
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX		SIL1					
T1 value for proof test interval or service life IEC 61508 relating to ATEX	acc. to	3 у					
Certificates/ approvals							
					For use in hazard-		
General Product Approval				EMC	ous locations		
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	<u>(U)</u>		COF	le contra de la co	<u>(</u> <u></u> <u></u> <u></u> <u></u>)		
	<u></u>		ΓΠΙ	Ś	<u>v</u>		
CSA CCC	UL			RCM	ATEX		
For use in horord Destantion of							
For use in hazard- ous locations Conformity	Test Certifica	ates	Marine / Shipping				
ous locations Conformity							
Type Test Cert		rtific		(NU YE)			
	ates/Test Re		State of the second	<u> i ja</u>	Lloyd's		
			Sec. 1	(24)	Register		
IECEx EG-Konf.			ABS	BUREAU	LRS		
				VERITAS			
Marine / Shipping	other						



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=3RW5513-3HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5513-3HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-3HA14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5513-3HA14&lang=en

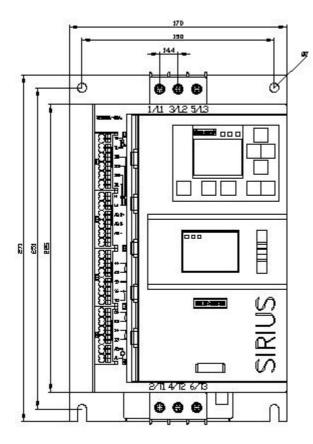
Characteristic: Tripping characteristics, I²t, Let-through current

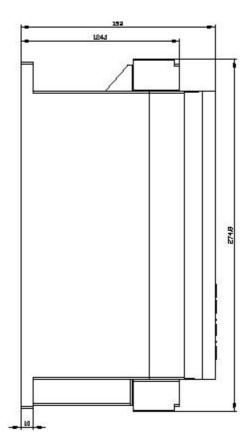
https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-3HA14/char

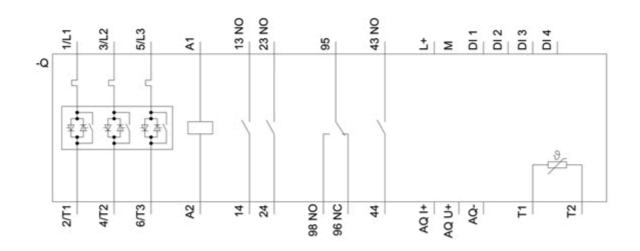
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5513-3HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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