SIEMENS

Data sheet

3RW5524-1HA14



SIRIUS soft starter 200-480 V 47 A, 110-250 V AC Screw terminals

Direct Control of Cont	
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 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1021-2; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</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

accuracy class

start torque [%]

stopping torque [%] torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

10 ... 100 % 10 ... 100 %

20 ... 200 %

125 ... 800 % 40 ... 100 %

5 (based on IEC 61557-12)

0 ... 2 s 3

Yes

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
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	
 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
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)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3
product function	
 ramp-up (soft starting) 	Yes
 ramp-down (soft stop) 	Yes
breakaway pulse	Yes
 adjustable surrent limitation 	Yes
adjustable current limitation	
• creep speed in both directions of rotation	Yes
creep speed in both directions of rotationpump ramp down	Yes
creep speed in both directions of rotationpump ramp downDC braking	Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating 	Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function 	Yes Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function 	Yes Yes Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection 	Yes Yes Yes Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function 	Yes Yes Yes Yes
 creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection 	Yes Yes Yes Yes Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to
 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 	Yes Yes Yes Yes Yes Yes Yes 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.
 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 	Yes Yes Yes Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick
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a removable terminal for control sirevit	Voo
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	
• at 40 °C rated value	47 A
 at 40 °C rated value minimum 	10 A
• at 50 °C rated value	41.6 A
• at 60 °C rated value	36.2 A
operational current at inside-delta circuit	
• at 40 °C rated value	81.4 A
• at 50 °C rated value	72 A
• at 60 °C rated value	62.7 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	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	22 kW
• at 400 V at 40 °C rated value	22 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	45 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	14 W
● at 50 °C after startup	12 W
● at 60 °C after startup	11 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	588 W
• at 50 °C during startup	504 W
• at 60 °C during startup	420 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 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	180 mA
inrush current by closing the bypass contacts maximum	0.8 A
inrush current peak at application of control supply voltage	43 A
maximum duration of inrush current peak at application of control supply	1.6 ms
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
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	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
• upwards	100 mm
downwards	75 mm
• at the side	5 mm
weight without packaging	5.5 kg
Connections/ Terminals	
type of electrical connection for main current circuit 	box terminal
for main current circuit for control circuit	
vidth of connection bar maximum	screw-type terminals 25 mm
with or connection bar maximum	
 with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	150 m
• with conductor cross-section = 2.5 mm ² maximum	250 m
type of connectable conductor cross-sections for main	
contacts for box terminal	
 using the front clamping point solid 	1x (2.5 16 mm²)
 using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 using the front clamping point stranded 	1x (10 70 mm²)
 using the back clamping point solid 	1x (2.5 16 mm²)
 r box terminal using the back clamping point 	1x (10 2/0)
 using both clamping points solid 	2x (2.5 16 mm²)
where the the element is a mainter for all a stranged end with a serie and	
 using both clamping points finely stranded with core end processing using both clamping points stranded 	2x (2.5 35 mm²)

 using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 using the back clamping point stranded 	1x (10 70 mm²)
type of connectable conductor cross-sections	
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	4.5 6 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 	40 53 lbf-in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
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 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)
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
	and to UEC COONT 4.24 Class A. Class D on request
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
Communication/ Protocol	acc. to TEC 60947-4-2. Class A, Class B on request
	acc. to IEC 60947-4-2. Class A, Class B on request
Communication/ Protocol	Yes
Communication/ Protocol communication module is supported	
Communication/ Protocol communication module is supported • PROFINET standard	Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes
Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL	Yes Yes Yes Yes Yes
Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA
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Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings Manufacturer's article number of circuit breaker usable for Standard Faults - at 460/480 V according to UL - 60/480 V according to UL - at 460/480 V at inside-delta circuit according to UL - 60/480 V at inside-delta circuit according to UL - at 575/600 V according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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Communication / Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL of 0/480 V according to UL of 0/480 V according to UL of 0/480 V at inside-delta circuit according to UL of the fuse of the fuse output of the fuse output of the fuse output of the fuse for Standard Faults up to 575/600 V according to UL output of the fuse for Standard Faults up to 575/600 V according to UL output of Standard Faults at inside-delta circuit up to 575/600 V according to UL output of Standard Faults at inside-delta circuit up to 575/600 V according to UL output of Standard Faults at inside-delta circuit up to 575/600 V according to UL output of Standard Faults at inside-delta circuit up to 575/600 V according to UL output of Standard Faults at inside-delta circuit up to Standard Faults at inside-delta circuit up to of Standard Faults at inside-delta circuit up to standard Faults at inside-delta circuit up to standar	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Communication / Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings Manufacturer's article number of circuit breaker usable for Standard Faults - at 460/480 V according to UL - 60/480 V according to UL - 60/480 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V uL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according	Yes Yes Yes Yes Yes Yes Yes Siemens type: $3RV2742$, max. 70 A or $3VA51$, max. 90 A; lq = 5 kA Siemens type: $3VA51$, max. 60 A; lq max = 65 kA Siemens type: $3VA51$, max. 90 A; lq = 5 kA Siemens type: $3VA51$, max. 60 A; lq max = 65 kA Siemens type: $3VA51$, max. 60 A; lq max = 65 kA Siemens type: $3VA51$, max. 60 A; lq max = 65 kA Siemens type: $3VA51$, max. 90 A; lq = 5 kA Siemens type: $3VA51$, max. 90 A; lq = 5 kA Type: Class RK5 / K5, max. 175 A; lq = 5 kA Type: Class RK5 / K5, max. 175 A; lq = 5 kA Type: Class J / L, max. 175 A; lq = 100 kA Type: Class J / L, max. 175 A; lq = 100 kA
Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 60/480 V according to UL 60/480 V according to UL 60/480 V at inside-delta circuit according to UL 60/600 V at inside-delta circuit according to UL 60/600 V acco	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

• at 200/208 V at i	inside-delta circuit at 50 °C	C rated value 20	hp			
• at 220/230 V at i	inside-delta circuit at 50 °C	C rated value 25	hp			
• at 460/480 V at i	inside-delta circuit at 50 °C	C rated value 50	hp			
contact rating of auxi	iliary contacts according	to UL R3	00-B300			
Electrical Safety						
protection class IP or	n the front according to I	EC 60529 IP(IP00; IP20 with cover			
touch protection on the front according to IEC 60529		C 60529 fin	finger-safe, for vertical contact from the front with cover			
ATEX						
Safety Integrity Level to ATEX	(SIL) according to IEC 6	SII SII	_1			
PFHD with high demand rate according to IEC 61508 relating to ATEX		5E 61508 5E	-7 1/h			
PFDavg with low demand rate according to IEC 61508 relating to ATEX		C 61508 0.0	008			
hardware fault tolerance according to IEC 61508 relating to ATEX		508 relating to 0				
T1 value for proof tes IEC 61508 relating to	at interval or service life a	according to 3 a	a			
certificate of suitabili	ty					
• ATEX		Ye	S			
• IECEx		Ye	S			
 according to ATE 	EX directive 2014/34/EU	BV	'S 18 ATEX F 003 X			
type of protection acc	cording to ATEX directiv	e 2014/34/EU II (2)G [Ex eb Gb] [Ex db Gb]	[Ex pxb Gb], II (2)D [Ex tt	Db] [Ex pxb Db], I (M2)	
		[E:	(db Mb]			
Approvals Certificates						
General Product App	oroval					
/CN	"	UK	(mr)			
() ()	CE EG-Konf.	UK CA			Ű	
General Product Approval		ČÀ	For use in hazardou	us locations	UL Test Certificates	
-		KC	For use in hazardou	is locations	Test Certificates	
-	EMV		IECE×	(Ex)	Type Test Certific-	
FRE	EMV		IECE×	KEx ATEX	<u>Type Test Certific-</u> ates/Test Report	
FRE		KC KC Register	IECE×	other	<u>Type Test Certific-</u> ates/Test Report	
proval ERE Marine / Shipping		KC KC Register	IECE×	other	<u>Type Test Certific-</u> ates/Test Report	
proval ERE Marine / Shipping ABS Environment Siemens EcoTech	EMV	KC KC Register	IECE×	other	<u>Type Test Certific-</u> ates/Test Report	
proval ERE Marine / Shipping ABS Environment Siemens EcoTech Euther information	EMV CCC CCM CCM CCM CCM CCM CCM C	KC KC Register	IECE×	other	<u>Type Test Certific-</u> ates/Test Report	
proval ERE Marine / Shipping	EMV EMV EMV ENV ENV ENV ENV ENV ENV ENV EN		IECE×	other	<u>Type Test Certific-</u> ates/Test Report	
proval ERE Marine / Shipping	EMV EMV EMV EXAMPLE A CONSTRUCTION ENVIRONMENTAL CONSTRUCTION ACKAGING ACKAGINA	KC KC LINS	IECEX	other Confirmation	<u>Type Test Certific-</u> ates/Test Report	

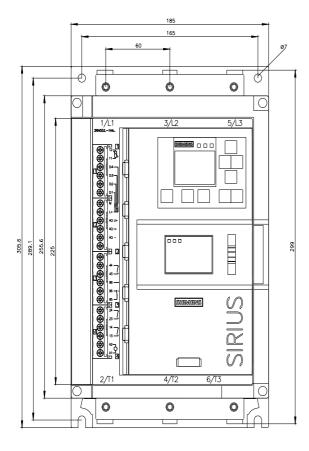
https://support.industry.siemens.com/cs/ww/en/ps/3RW5524-1HA14

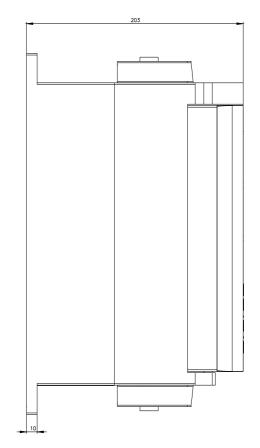
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5524-1HA14&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5524-1HA14/char

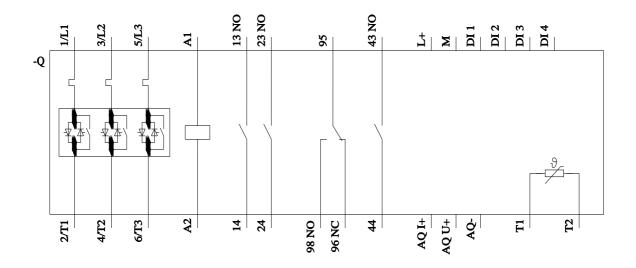
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5524-1HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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