SIEMENS

Data sheet

3RW5525-3HA16



SIRIUS soft starter 200-690 V 63 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 	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1022-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3227; Type of coordination 2, Iq = 65 kA</u>

General technical data

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	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	690 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)	02/15/2018
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)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes; Only up to 600 V operating voltage
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
• 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	
• at 40 °C rated value	63 A
• at 40 °C rated value minimum	13 A
• at 50 °C rated value	55.5 A
at 60 °C rated value	50.5 A
operational current at inside-delta circuit	00.0 A
at 40 °C rated value	109 A
at 50 °C rated value	96 A
at 60 °C rated value	87.5 A
operating voltage	000 0001/
rated value	200 690 V
at inside-delta circuit rated value	200 600 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 	18.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 400 V at 40 °C rated value 	30 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	55 kW
 at 500 V at 40 °C rated value 	37 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	55 kW
 at 690 V at 40 °C rated value 	55 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	19 W
• at 50 °C after startup	17 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 056 W
• at 50 °C during startup	732 W
at 60 °C during startup	647 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	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
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	-10 %
frequency	

relative positive tolerance of the control supply voltage	10 %
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 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	
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	5.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	box terminal
• for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm ² 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 for box terminal using the front clamping point solid 	1x (2.5 16 mm²)
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)
• for AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)
• for main contacts for box terminal using both clamping points solid	2x (2.5 16 mm ²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)

 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
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)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with 	2x (24 16)
core end processing	24 (24 10)
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 terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	40 53 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
	2 000 m, Derating as or 1000 m, see catalog
ambient temperature	25 ±60 °C: Diagon changing deroting at terminations of 40 °C as a house
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
Communication/ Protocol	
Communication/ Protocol	Yes
Communication/ Protocol communication module is supported • PROFINET standard	
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 Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes 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 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	Yes Yes 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 Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
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	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 RTU Nodbus TCP PROFIBUS UL/CSA ratings UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-	Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA
Communication / Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according	Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA
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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 - usable for High Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside- delta circuit according to UL	Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
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operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value		15 hp			
 at 220/230 V at 50 °C rated value 		20 hp			
 at 460/480 V at 50 °C rated value 		40 hp			
• at 575/600 V at 50 °C rated value		50 hp			
• at 200/208 V at inside-delta circuit at 50 °	°C rated value	30 hp			
• at 220/230 V at inside-delta circuit at 50 °		30 np 30 hp			
• at 460/480 V at inside-delta circuit at 50 °		30 np 75 hp			
• at 575/600 V at inside delta circuit at 50		75 hp			
contact rating of auxiliary contacts accordin		R300-	B300		
Safety related data	IG TO DE	1000	2000		
protection class IP on the front according to	JEC 60529	IP00·	IP20 with cover		
touch protection on the front according to I				t from the front with cover	
electromagnetic compatibility		Ū	IEC 60947-4-2		
ATEX		400.10			
certificate of suitability		_			
ATEX		Yes			
• IECEx		Yes			
 according to ATEX directive 2014/34/EU 			8 ATEX F 003 X		
type of protection according to ATEX directive 2014/34/E0				[Ex pxb Gb], II (2)D [Ex tb	
type of protection according to ATEA direction	198 2014/34/EU	[Ex db		נבא איט סטן, זו (ב)ט נבא נט בא גע	
hardware fault tolerance according to IEC 61 ATEX	1508 relating to	0			
PFDavg with low demand rate according to I relating to ATEX	IEC 61508	0.008			
PFHD with high demand rate according to E to ATEX	N 62061 relating	5E-7 1	l/h		
Safety Integrity Level (SIL) according to IEC to ATEX	61508 relating	SIL1			
T1 value for proof test interval or service life IEC 61508 relating to ATEX	e according to	3 a			
Certificates/ approvals					
General Product Approval					EMC
General Product Approval					EMC
				rnr	EMC
General Product Approval	۲		٩	FAC	ЕМС
General Product Approval	(CCC)		(U) u	EAC	
General Product Approval			٩	EAC	
General Product Approval	ccc		(U) u	EAC	EMC RCM
General Product Approval	CCC Declaration of formity	Con-	UL Test Certificates	ERF Marine / Shipping	EMC ECM
General Product Approval Confirmation		Con-		ERE Marine / Shipping	
General Product Approval Confirmation		Con-	Test Certificates	ERE Marine / Shipping	EMC RCM
General Product Approval Confirmation	formity	Con-	Type Test Certific-	ERE Marine / Shipping	EMC RCM
General Product Approval Confirmation		Con-	Type Test Certific-	Marine / Shipping	
General Product Approval Confirmation For use in hazardous locations Example	formity	Con-	Type Test Certific-	EFFE Marine / Shipping	
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CE EG-Konf.	Con-	Type Test Certific-	EFFE Marine / Shipping	EMC RCM
General Product Approval Confirmation For use in hazardous locations Example	formity	Con-	Type Test Certific-	ERC Marine / Shipping	EMC RCM
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CEG-Konf.		Type Test Certific-	ERF Marine / Shipping	EMC RCM UREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CE EG-Konf.		Type Test Certific-	ERC Marine / Shipping	EMC RCM UREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CEG-Konf.		Type Test Certific-	ERE Marine / Shipping	EMC RCM UREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CEG-Konf.		Type Test Certific-	ERFC Marine / Shipping \widetilde{BS}	EMC RCM
General Product Approval Confirmation For use in hazardous locations Example of the second se	formity CEG-Konf.		Type Test Certific-	ERFC Marine / Shipping EVAN	EMC RCM
General Product Approval Confirmation For use in hazardous locations Example 1 Image: Arex of the second sec	formity CEG-Konf.		Type Test Certific-	Marine / Shipping	EMC RCM UREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example 1 Image: Arrex 1 Marine / Shipping Image: Break and Stream and	formity CEG-Konf. Other Confirmation		Type Test Certific-	ERE Marine / Shipping	EMC EMC RCM UREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example 1 Image: State 1 Marine / Shipping Image: State 1	formity C C C EG-Konf. Other Confirmation arket (see here).	n	<u>Type Test Certificates/Test Report</u>	EFFE Marine / Shipping	EMC ECC EUREAU VERITAS
General Product Approval Confirmation For use in hazardous locations Example Image: Confirmation Marine / Shipping Image: Confirmation Eurther information Siemens has decided to exit the Russian manhtps://press.siemens.com/global/en/pressrelead	formity CEG-Konf. other Confirmation arket (see here). Ise/siemens-wind-do	n wm-russ	<u>Type Test Certificates/Test Report</u>	ERE Marine / Shipping	EMC RCM UREAU VERITAS
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Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5525-3HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5525-3HA16

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HA16

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW55 25-3HA16&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current siemens.com/cs/ww/en/ps/3RW5525-3HA16/char

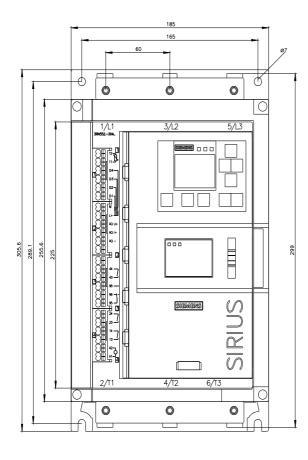
https://support.industry

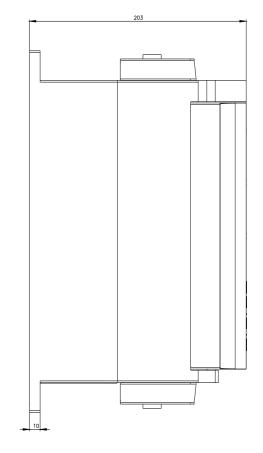
Characteristic: Installation altitude

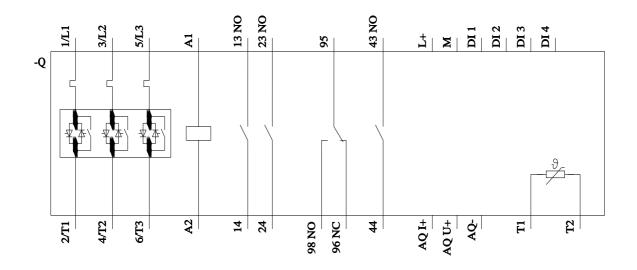
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5525-3HA16&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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