SIEMENS

product brand name

Data sheet 3RW5517-1HA04

SIRIUS



SIRIUS soft starter 200-480 V 38 A, 24 V AC/DC Screw terminals

product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, lq = 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 	3NE1820-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8024-1; Type of coordination 2, Iq = 65 kA
eneral 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
3RW55171HA04	Subject to change without notice

• 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 Q
Substance Prohibitance (Date)	02/15/2018
product function	02/13/2010
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
	Yes
breakaway pulse adii atable surrent limitation	Yes
adjustable current limitation	
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	Yes
spring-loaded terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature
• firmware update	communication modules Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
	Yes
torque controlcombined braking	Yes
	1 65
	Voc: 4 20 mA (default) / 0 40 \/
analog output programmable control inputs/outputs	Yes; 4 20 mA (default) / 0 10 V 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 	38 A	
 at 40 °C rated value minimum 	7.5 A	
 at 50 °C rated value 	33.5 A	
 at 60 °C rated value 	30.5 A	
operational current at inside-delta circuit		
 at 40 °C rated value 	65.8 A	
 at 50 °C rated value 	58 A	
• at 60 °C rated value	52.8 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 	18.5 kW	
 at 400 V at 40 °C rated value 	18.5 kW	
 at 400 V at inside-delta circuit at 40 °C rated value 	30 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	11 W	
at 50 °C after startup	10 W	
• at 60 °C after startup	9 W	
power loss [W] at AC at current limitation 350 %		
• at 40 °C during startup	616 W	
at 50 °C during startup	511 W	
at 60 °C during startup	447 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/DC	
control supply voltage at AC	7.0.20	
at 50 Hz rated value	24 V	
at 60 Hz rated value at 60 Hz rated value	24 V	
relative negative tolerance of the control supply voltage at	-20 %	
AC at 50 Hz		
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %	
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 voltage		

a at DC rated value	24 V
at DC rated value at bc rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	420 mA
holding current in bypass operation rated value	820 mA
inrush current by closing the bypass contacts maximum	0.91 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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	1A
Installation/ mounting/ dimensions	14
	Variable (200 be related at 000 and titled forward as beginning at 00.5%)
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	2.6 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	screw-type terminals
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm² 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)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
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 solid 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	1. (EV 12), 2. (EV 17)
-	800 m
between soft starter and motor maximum at the digital inputs at DC maximum	1 000 m
at the digital inputs at DC maximum tightening torque	1 000 111
manetino torone	

• for rainal contacts with screw-type (emminals 2		
tightening torque (librin) • for main contacts with sortew-type terminals • for main contacts with sortew-type terminals • for main pay and control contacts with sortew-type * for main contacts with sortew-type terminals * for main contacts with sortew-type * for main contacts with sortew-type • during operation • during operation • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage accordin	 for main contacts with screw-type terminals 	2 2.5 N·m
Tightening torque (Ibfrin) I or main contiduous with sorew-type terminals Installation sittled at theight above sea level maximum ambient temperature I outing operation I outing operation and the sea theight above sea level maximum I outing operation I outing operation according to IEC 60721 I outing transport according to IEC 60721 I out transport according to IEC 60722 I		0.8 1.2 N·m
For main contacts with screw-type terminals 15 22 lb-fin 7 10.3 lbf-in 15 22 lb-fin 7 10.3 lbf-in		
Ambient Conditions Ambient Conditions Ambient Conditions Installation attitude at height above sea level maximum Installation attitude at height above sea level and some of Communication and Installation attitude attitu	tightening torque [lbf·in]	
Installation altitude at height above sea level maximum ambient temperature - during peration - during storage and transport - during storage according to IEC 60721 -	 for main contacts with screw-type terminals 	18 22 lbf·in
mistation attitude at height above sea level maximum similant imprenture • during operation • during operation according to IEC 60721 • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage a	,	7 10.3 lbf·in
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EMC emitted interference Communication Protection Protection module is supported PROFINET standard PROFINET standard PROFINET high-feature PROFINET standard PROFINET with results at 460 PROFINET PROFINED PROFINED PROFINED UL/CSA ratings Manufacturer's article number of circuit breaker - usable for Standard Faults at 460 PROFINED - usable for Standard Faults at 575 PROFINED - usable for Standard Faults at 160 PROFINED -		
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PROFINET standard PROFINET standard PROFINET play-fivature PROFIDED P	Communication/ Protocol	
■ PROFINET high-feature ■ EtherNet/IP ■ Modbus RTU ■ Modbus TCP ■ Modbus TCP ■ Yes ■ PROFIBUS ■ PROFIBUS ■ Yes ■ PROFIBUS ■ Yes Ves ■ PROFIBUS ■ Yes Ves Ve	communication module is supported	
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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 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 575/600 V according to UL — usable for Standard 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 — usable for Standard 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 — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard 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 — 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 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 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 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 to UL — usable for High Faults up to 576/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults up to 576/600 V according to UL — usable for High Faults up to 576/600 V according to UL — usa	Modbus RTU	Yes
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to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 8300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2	UL	
operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value tontact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2	to 575/600 V according to UL	
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value by at 460/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value by at 400/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 R300-B300 R300-B300 R920 safety related data protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front according to IEC 60529 delectromagnetic compatibility acc. to IEC 60947-4-2 	575/600 V according to UL	Type: Class J / L, max. 150 A; Iq = 100 kA
 at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value by 40 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 		
 at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value to hp at 460/480 V at inside-delta circuit at 50 °C rated value to hp at 460/480 V at inside-delta circuit at 50 °C rated value to hp at 460/480 V at inside-delta circuit at 50 °C rated value to hp at 20 hp at 20 hp at 300-B300 Safety related data protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 		·
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value 40 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 		·
at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2		·
at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility acc. to IEC 60947-4-2		·
contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2		·
protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2		R300-B300
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2		
electromagnetic compatibility acc. to IEC 60947-4-2	· · · · · · · · · · · · · · · · · · ·	
ATEX		acc. to IEC 60947-4-2
	ATEX	

certificate of suitability	
• ATEX	Yes
• IECEx	Yes
 according to ATEX directive 2014/34/EU 	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a

Certificates/ approvals

General Product Approval EMC





Confirmation







For use in hazardous locations

Declaration of Con-

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





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=3RW5517-1HA04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5517-1HA04}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-1HA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5517-1HA04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

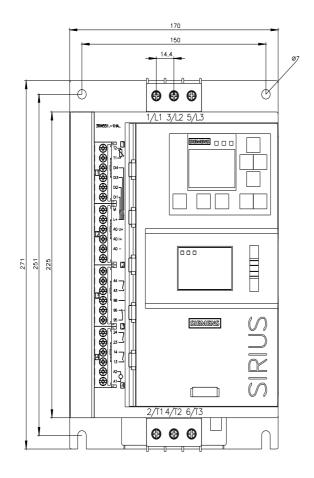
https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-1HA04/char

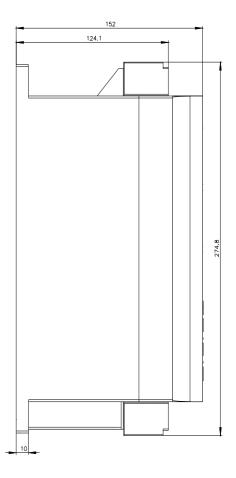
Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5517-1HA04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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





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