SIEMENS

Data sheet 3RW5076-6AB05

SIRIUS



SIRIUS soft starter 200-600 V 470 A, 24 V AC/DC Screw terminals Analog output

Figure similar

product brand name

product branchine	011100
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS01
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 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 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
 of circuit breaker usable at 500 V 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 436-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 340-8; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1076</u>
 of line contactor usable up to 690 V 	<u>3RT1076</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
for main current circuit	100 ms

• for control circuit	100 mg
• for control circuit	100 ms
insulation voltage rated value	600 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
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	2001/
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
• intrinsic device protection	Yes
 motor overload protection 	Yes; Electronic motor overload protection
 evaluation of thermistor motor protection 	No
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
 communication function 	Yes
 operating measured value display 	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
 via software parameterizable 	No
 via software configurable 	Yes
 PROFlenergy 	Yes; in connection with the PROFINET Standard communication module
 voltage ramp 	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current	
at 40 °C rated value	470 A
at 50 °C rated value	416 A
at 60 °C rated value	380 A
operating voltage	
rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	132 kW
• at 400 V at 40 °C rated value	250 kW
at 500 V at 40 °C rated value	315 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 %
adjustable motor current	
 at rotary coding switch on switch position 1 	200 A
 at rotary coding switch on switch position 2 	218 A
• at rotary coding switch on switch position 3	236 A
 at rotary coding switch on switch position 4 	254 A
at rotary coding switch on switch position 5	272 A
at rotary coding switch on switch position 6	290 A
at rotary coding switch on switch position 7	308 A
at rotary coding switch on switch position 8	326 A

 at rotary coding switch on switch position 9 	344 A
 at rotary coding switch on switch position 10 	362 A
 at rotary coding switch on switch position 11 	380 A
 at rotary coding switch on switch position 12 	398 A
 at rotary coding switch on switch position 13 	416 A
 at rotary coding switch on switch position 14 	434 A
 at rotary coding switch on switch position 15 	452 A
 at rotary coding switch on switch position 16 	470 A
• minimum	200 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	56 W
at 50 °C after startup	44 W
• at 60 °C after startup	37 W
power loss [W] at AC at current limitation 350 %	O W
• at 40 °C during startup	5 344 W
at 50 °C during startup at 50 °C during startup	4 438 W
·	
at 60 °C during startup tupe of the motor protection	3 876 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	AOIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	2414
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 % -
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	
at DC 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	160 mA
holding current in bypass operation rated value	490 mA
inrush current by closing the bypass contacts maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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	1
number of digital outputs	3
not parameterizable	2
digital output version	2 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	230 mm
width	160 mm
depth	282 mm
required spacing with side-by-side mounting	202 (1111)
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	7.3 kg
Connections/ Terminals	7.3 kg
· · · · · · · · · · · · · · · · · · ·	
type of electrical connection for main current circuit	busbar connection
for control circuit	
	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
type of connectable conductor cross-sections	95 300 mm²
for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front.	95 300 mm ²
for main contacts for box terminal using the front clamping point finely stranded with core end processing	70 240 mm ²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²
 for AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil
 for main contacts for box terminal using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
for main contacts for box terminal using both clamping points finely stranded without core end processing	min. 2x 50 mm², max. 2x 185 mm²
for main contacts for box terminal using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²
for main contacts for box terminal using the back clamping point finely stranded with core end processing	120 185 mm²
for main contacts for box terminal using the back clamping point finely stranded without core end processing	120 185 mm²
for main contacts for box terminal using the back clamping point stranded	120 240 mm²
type of connectable conductor cross-sections	
for AWG cables for main current circuit solid	2/0 500 kcmil
for DIN cable lug for main contacts stranded	50 240 mm²
for DIN cable lug for main contacts finely stranded	70 240 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 AC maximum	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	14 24 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	124 210 lbf·in
for auxiliary and control contacts with screw-type terminals	7 10.3 lbf·in
mbient conditions	

### Storage and transport ### ouring operation ### ouring storage and transport ### ouring operation according to IEC 60721 ### ouring operation according to IEC 60721 ### ouring storage according to IEC 60721 ### ouring storage according to IEC 60721 ### ouring storage according to IEC 60721 ### ouring transport according to IEC 60721 ### our according to IEC 60721		
- during operation - during storage and transport - during storage and transport - during storage and transport - during storage according to IEC 60721 - during stor	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
eduring storage and transport environmental category eduring operation according to IEC 60721 **All (no) loce formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 **during storage according to IEC 60721 **All (no) no casional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 **during transport according to IEC 60721 **EMC emitted interference **Communication Protocol **Communication module is supported **PROFINET standard **PROFINET standard **PROFINET standard **PROFINET standard **PROFINED **Modus RTU **Modus RTU **Se **Modus RTU **Se **Modus RTU **Se **PROFIBUS **ULICSA ratings **Type: Class L, max. 1600 A; Iq = 30 kA **Cording to UL **Usable for Standard Faults up to 575/600 V according to UL **Usable for Fligh Faults up to 575/600 V according to UL **Operating power (Ipp) for 3-phase motors **All 200/208 V st 50 "C rated value **al 450/408 O V st 50 "C rated value **protection class IP on the front according to IEC 60529 **Tree Class L, max. 1000 A; Iq = 100 kA **DIP Class L, max. 1000 A; Iq = 100 kA **DIP Class L, max. 1000 A; Iq = 100 kA **UL **Operating power (Ipp) for 3-phase motors **al 200/208 V st 50 "C rated value	ambient temperature	
environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference according to IEC 60721 EMC emitted interference Communication module is supported • PROFINET standard • PROFINED • Wes • Binantherian • Citier Artilings • ULICSA ratings manufacturer's article number • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Fligh Faults up to 575/600 V according to UL • PROFINED • ATEX • ATEX • Certificate of suitability • ATEX • ATEX Safety Integrity Lavel (SIL) according to IEC 61508 relating to ATEX Safety Integrity Lavel (SIL) according to IEC 61508 relating to ATEX Safety Integrity Lavel (SIL) according to EC 61508 relating to ATEX Typean of the standard rate according to EC 61508 relating to ATEX Typean of the standard rate according to IEC 61508 relating to ATEX Safety Integrity Lavel (SIL) according to IEC 61508 relating to ATEX Typean of the standard rate according to EC 61508 relating to ATEX Safety Integrity Lavel (SIL) according to EC 61508 relating to ATEX	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
- during operation according to IEC 60721 - during storage according to IEC 60721 - during storage according to IEC 60721 - during transport according to IEC 60729 - during transport according to I	during storage and transport	-40 +80 °C
(sand must not get into the devices), 3M6 during storage according to IEC 60721 disclored the devices), 1M4 during transport according to IEC 60721 EMC emitted interference acc. To IEC 60947-4-2: Class A Communication module is supported PROFINET standard EID ROBERT STANDAR	environmental category	
inside the devices), 1M4 e during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall helpit 0.3 m) EMC emitted interference acc. IoEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes EtherNet/IP Yes Modous RTU Yes Modous TCP PROFIBUS UUCSA ratings UUCSA ratings UUCSA ratings UUCSA ratings UUCSA ratings Type: Class L, max. 1600 A; Iq = 30 kA according to UL operating power (hp) for 3-phase motors et at 200/208 V at 50 °C rated value at 220/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value at 675/600 V at 50 °C rated value at 675/600 V at 50 °C rated value at 775/600 V at 50 °C rated v	 during operation according to IEC 60721 	
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communication module is supported PROFINET standard PROFINET standard PROFINET standard Profit with the profit	EMC emitted interference	acc. to IEC 60947-4-2: Class A
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Modbus TCP PROFIBUS Profibus Profibus Profibus Will CSA ratings Continue of the fuse	• EtherNet/IP	Yes
■ PROFIBUS Manufacturer's article number of the fuse — 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 High Faults up to 575/600 V according to UL. — usable for High Faults 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 4575/600 V at 50 °C rated value • at 575/600 V	Modbus RTU	Yes
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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 460/480 V at 50 °C rated value • at 4575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value Protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover ATEX certificate of suitability • ATEX • IECEX • UKEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX		Type: Class L, max. 1600 A; Iq = 30 kA
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at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability ATEX IECEX IECEX UKEX PFDavig with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 11 value for proof test interval or service life according to IEC 61508 relating to ATEX 12 value for proof test interval or service life according to IEC 61508 relating to ATEX 13 value for proof test interval or service life according to IEC 61508 relating to ATEX	operating power [hp] for 3-phase motors	
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• at 575/600 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover ATEX certificate of suitability • ATEX • IECEX • UKEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	• at 220/230 V at 50 °C rated value	150 hp
protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover ATEX certificate of suitability • ATEX • IECEX • UKEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX PFHD with pigh demand rate according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	• at 460/480 V at 50 °C rated value	350 hp
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability	• at 575/600 V at 50 °C rated value	450 hp
touch protection on the front according to IEC 60529 ATEX certificate of suitability • ATEX • IECEX • UKEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX finger-safe, for vertical contact from the front with cover from the front with cover from the front with cover in the form the form the form the front with cover in the form the front with cover in the form the for	Safety related data	
certificate of suitability • ATEX • IECEX • UKEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFDD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to IEC 61508 relating to ATEX 3 a	protection class IP on the front according to IEC 60529	IP00; IP20 with cover
certificate of suitability • ATEX • IECEX • UKEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 3 a	· · · · · · · · · · · · · · · · · · ·	finger-safe, for vertical contact from the front with cover
ATEX IECEX UKEX Hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 3 a		
ATEX IECEX UKEX Hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 3 a	certificate of suitability	
IECEX UKEX Ves hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 3 a	•	Yes
● UKEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX		
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PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX		
to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX 3 a		0.09
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX		9E-6 1/h
IEC 61508 relating to ATEX		SIL1
Certificates/ approvals		3 a
	Certificates/ approvals	

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General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





Type Test Certificates/Test Report







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=3RW5076-6AB05

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5076-6AB05}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-6AB05&lang=er

Characteristic: Tripping characteristics, I2t, Let-through current

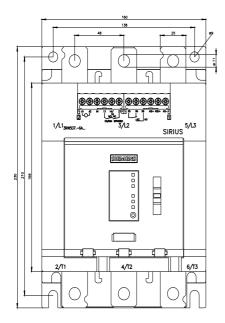
https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB05/char

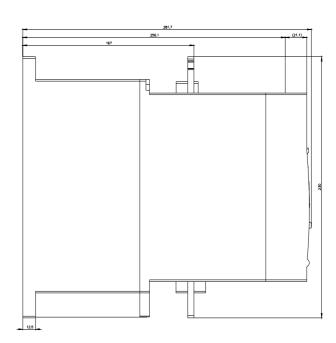
Characteristic: Installation altitude

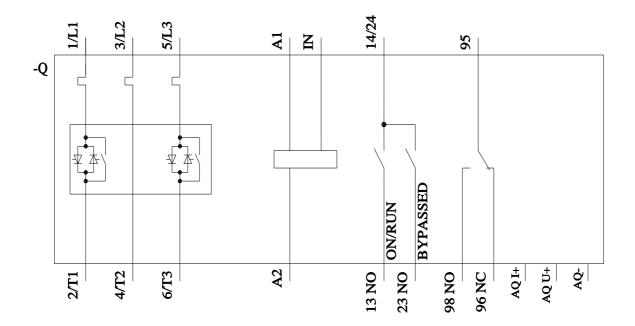
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6AB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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