SIEMENS

Data sheet 3RW5056-6TB05



SIRIUS soft starter 200-600 V 171 A, 24 V AC/DC Screw terminals Thermistor input

Figure similar

product brand name	SIRIUS
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 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of circuit breaker usable at 500 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 230-0: Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 335; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1056</u>
 of line contactor usable up to 690 V 	<u>3RT1064</u>
eneral 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 anyther size of	400		
• 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	1 800 V		
service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for protective separation			
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; Full motor protection (thermistor motor protection and electronic motor overload protection)		
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick		
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 No		
analog output	No		
Power Electronics			
operational current	474.6		
• at 40 °C rated value	171 A		
• at 50 °C rated value	153 A		
at 60 °C rated value	141 A		
operating voltage	000 000 //		
• rated value	200 600 V		
relative negative tolerance of the operating voltage	-15 % -10 %		
relative positive tolerance of the operating voltage	10 %		
operating power for 3-phase motors	45 IAM		
• at 230 V at 40 °C rated value	45 kW		
• at 400 V at 40 °C rated value	90 kW		
= 31 SULL V 31 AU 1 FOTON VOLLO	110 kW		
at 500 V at 40 °C rated value Operating frequency 4 rated value	110 kW		
Operating frequency 1 rated value	50 Hz		
Operating frequency 1 rated value Operating frequency 2 rated value	50 Hz 60 Hz		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	50 Hz 60 Hz -10 %		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	50 Hz 60 Hz		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current	50 Hz 60 Hz -10 % 10 %		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1	50 Hz 60 Hz -10 % 10 %		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2	50 Hz 60 Hz -10 % 10 % 81 A 87 A		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3	50 Hz 60 Hz -10 % 10 % 81 A 87 A 93 A		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4	50 Hz 60 Hz -10 % 10 % 81 A 87 A 93 A 99 A		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4 • at rotary coding switch on switch position 5	50 Hz 60 Hz -10 % 10 % 81 A 87 A 93 A 99 A 105 A		
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 4	50 Hz 60 Hz -10 % 10 % 81 A 87 A 93 A 99 A		

 at rotary coding switch on switch position 8 	123 A
 at rotary coding switch on switch position 9 	129 A
 at rotary coding switch on switch position 10 	135 A
 at rotary coding switch on switch position 11 	141 A
 at rotary coding switch on switch position 12 	147 A
at rotary coding switch on switch position 13	153 A
 at rotary coding switch on switch position 14 	159 A
at rotary coding switch on switch position 15	165 A
at rotary coding switch on switch position 16	171 A
minimum	81 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 70, Notative to sittatiest settable to
	29 W
• at 40 °C after startup	
• at 50 °C after startup	23 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 751 W
at 50 °C during startup	1 478 W
at 60 °C during startup	1 308 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	
• 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 % 10 %
relative positive tolerance of the control supply voltage	
relative positive tolerance of the control supply voltage frequency	
frequency relative positive tolerance of the control supply voltage frequency control supply voltage	10 %
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC	10 % 24 V -20 % 20 %
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value	10 % 24 V -20 % 20 % 160 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value	10 % 24 V -20 % 20 %
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value	10 % 24 V -20 % 20 % 160 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value	10 % 24 V -20 % 20 % 160 mA 360 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
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relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs	24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs	24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)

nstallation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90 $^\circ$ rotatable, with vertical mounting surface +/- 22.5 $^\circ$ tiltable to the front and back
fastening method	screw fixing
height	198 mm
width	120 mm
depth	249 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	5.2 kg
Connections/ Terminals	0.2 ng
type of electrical connection	
• for main current circuit	busbar connection
for control circuit	
	screw-type terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	50
• 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 for box terminal using the front clamping point solid	16 120 mm ²
for main contacts for box terminal using the front clamping point finely stranded with core end processing	16 120 mm ²
for main contacts for box terminal using the front clamping point finely stranded without core end processing	10 120 mm ²
for main contacts for box terminal using the front clamping point stranded	16 70 mm²
for main contacts for box terminal using the back clamping point solid	16 120 mm ²
for AWG cables for main contacts for box terminal using the back clamping point	6 250 kcmil
for main contacts for box terminal using both clamping points solid	max. 1x 95 mm², 1x 120 mm²
for main contacts for box terminal using both clamping points finely stranded with core end processing	max. 1x 95 mm², 1x 120 mm²
for main contacts for box terminal using both clamping points finely stranded without core end processing	max. 1x 95 mm², 1x 120 mm²
for main contacts for box terminal using both clamping points stranded	max. 2x 120 mm²
for main contacts for box terminal using the back clamping point finely stranded with core end processing	16 120 mm ²
for main contacts for box terminal using the back clamping point finely stranded without core end processing	10 120 mm ²
for main contacts for box terminal using the back clamping point stranded	16 120 mm²
type of connectable conductor cross-sections	
for AWG cables for main current circuit solid	4 250 kcmil
 for DIN cable lug for main contacts stranded 	16 95 mm²
for DIN cable lug for main contacts finely stranded	25 120 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	10 14 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 	89 124 lbf·in	
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in	
Ambient conditions		
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual	
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), 3S (sand must not get into the devices), 3M6	
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), inside the devices), 1M4	1S2 (sand must not get
 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	
Communication/ Protocol		
communication module is supported		
PROFINET standard	Yes	
• EtherNet/IP	Yes	
Modbus RTU	Yes	
Modbus TCP	Yes	
• PROFIBUS	Yes	
UL/CSA ratings		
manufacturer's article number		
of circuit breaker		
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA5225, max. 250 A; Iq = 10 kA	
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA	
• of the fuse	· · · · · · · · · · · · · · · · · · ·	
usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 400 A; Iq = 10 kA	
— usable for High Faults up to 575/600 V according to UL	Type: Class J, max. 350 A; lq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	50 hp	
• at 220/230 V at 50 °C rated value	50 hp	
• at 460/480 V at 50 °C rated value	100 hp	
• at 575/600 V at 50 °C rated value	150 hp	
Safety related data	130 lip	
	IDAG IDAG III	
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	Yes	
• IECEx	Yes	
• UKEX	Yes	
hardware fault tolerance according to IEC 61508 relating to ATEX	0	
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09	
PFHD with high demand rate according to EN 62061 relating to ATEX	9E-6 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		For use in hazard- ous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





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=3RW5056-6TB05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-6TB05

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-6TB05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

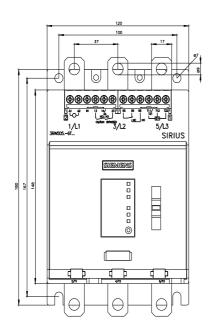
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB05/char

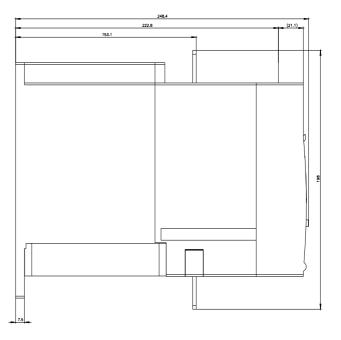
Characteristic: Installation altitude

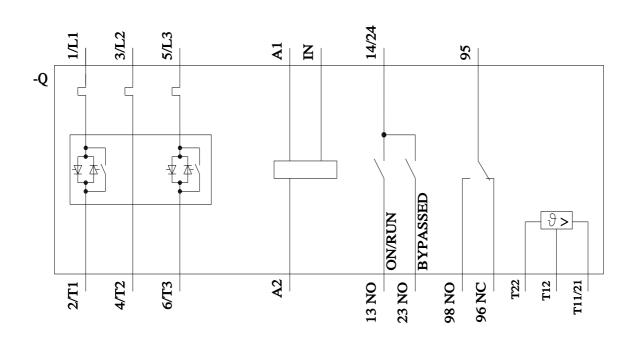
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6TB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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