SIEMENS

Data sheet 3RW5247-2AC14



SIRIUS soft starter 200-480 V 470 A, 110-250 V AC spring-type terminals Analog output

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW52		
manufacturer's article number			
of standard HMI module usable	3RW5980-0HS00		
 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 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3VA2450-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1436-2; Type of coordination 2, Iq = 65 kA		
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3340-8; Type of coordination 2, Iq = 65 kA		

General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 50 %			
start-up ramp 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 is supported				
HMI-Standard	Yes			
HMI-High Feature	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	3			
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			

huffering time in the areat of name fallows				
buffering time in the event of power failure	100			
for main current circuit	100 ms			
• 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 safe isolation				
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 acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
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			
• inside-delta circuit	Yes			
• 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			
• firmware update	Yes			
 removable terminal for control circuit 	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			
operational current at inside-delta circuit				
 at 40 °C rated value 	814 A			
 at 50 °C rated value 	721 A			
at 60 °C rated value	658 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	132 kW			

a at 220 V at incide delta airquit at 40 °C retaduation	250 kW			
at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value	250 kW			
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	250 kW			
Operating frequency 1 rated value	400 kW 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	10 70			
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 adjustable meter current	200 A			
of r inside-delta circuit at rotary coding switch on switch position 1	346 A			
for inside-delta circuit at rotary coding switch on switch position 2	378 A			
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A			
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A			
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A			
 for inside-delta circuit at rotary coding switch on switch position 6 	502 A			
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A			
for inside-delta circuit at rotary coding switch on switch position 8	565 A			
for inside-delta circuit at rotary coding switch on switch position 9 for inside delta sizewit at rotary coding switch on switch on the sizewit at rotary coding switch on switch or switch on the sizewit at rotary coding switch on the switch of the sizewit at rotary coding switch on switch or swi	596 A			
for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on	627 A			
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	658 A 689 A			
switch position 12 • for inside-delta circuit at rotary coding switch on	721 A			
switch position 13 • for inside-delta circuit at rotary coding switch on	752 A			
switch position 14 • for inside-delta circuit at rotary coding switch on	783 A			
switch position 15for inside-delta circuit at rotary coding switch on	814 A			
switch position 16 • at inside-delta circuit minimum	346 A			
minimum load [%]	15 %; Relative to smallest settable le			
power loss [W] for rated value of the current at AC	10 70, Notative to officialist solicable to			
• at 40 °C after startup	153 W			
at 50 °C after startup	137 W			
at 60 °C after startup	126 W			

power loss [W] at AC at current limitation 350 %				
 at 40 °C during startup 	7 903 W			
 at 50 °C during startup 	6 604 W			
at 60 °C during startup	5 794 W			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
● at 50 Hz	110 250 V			
● at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage frequency	-10 %			
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	30 mA			
holding current in bypass operation rated value	100 mA			
locked-rotor current at close of bypass contact maximum	2.2 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 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			
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply			
Inputs/ Outputs				
Inputs/ Outputs number of digital inputs				
number of digital inputs	not part of scope of supply			
number of digital inputs number of inputs for thermistor connection	not part of scope of supply 1 0			
number of digital inputs number of inputs for thermistor connection number of digital outputs	not part of scope of supply 1 0 3			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable	not part of scope of supply 1 0 3 2			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs	not part of scope of supply 1 0 3 2			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm			
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number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm			
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number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
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number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	not part of scope of supply 1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg			

width of connection has required	AF mm			
width of connection bar maximum	45 mm			
type of connectable conductor cross-sections	0/50 240 mmm2)			
for DIN cable lug for main contacts stranded	2x (50 240 mm²)			
for DIN cable lug for main contacts finely stranded	2x (70 240 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 mm²)			
 at AWG cables for control circuit solid	20.724 40)			
at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with	2x (24 16) 2x (24 16)			
core end processing	28 (24 10)			
wire length				
between soft starter and motor maximum	800 m			
at the digital inputs at AC maximum	800 m 100 m			
tightening torque				
for main contacts with screw-type terminals	14 24 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	124 210 lbf·in			
for auxiliary and control contacts with screw-type	7 10.3 lbf·in			
terminals				
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature				
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or			
	above			
during storage and transport	-40 +80 °C			
environmental category				
 during operation acc. to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
during a standard to 150 00704	mist), 3S2 (sand must not get into the devices), 3M6			
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
 during transport acc. 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	230.10 120 000 11 1 21 01000 11			
communication module is supported				
PROFINET standard	Yes			
EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
PROFIBUS	Yes			
	Tes			
UL/CSA ratings				
manufacturer's article number				
of the fuse Veable for Standard Faults up to E7E/600 V	Type: Class 1/1 may 1600 A. I 20 I.A			
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA			
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA			
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA			
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA			
operating power [hp] for 3-phase motors				
• at 200/208 V at 50 °C rated value	150 hp			
• at 220/230 V at 50 °C rated value	150 hp			
• at 460/480 V at 50 °C rated value	350 hp			
at 200/208 V at inside-delta circuit at 50 °C rated	250 hp			
value				
	250 hp			
 at 220/230 V at inside-delta circuit at 50 °C rated value 	250 hp			
	600 hp			

Certificates/ approvals			Declaration of		
Contification annual color					
electromagnetic compatibility	in accordance with IEC 60947-4-2				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover				
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover				
Safety related data					
contact rating of auxiliary contacts according to UL	R300-B300				
contact vetice of conditions contacts according to III	D200 D200				



General Product Approval









EMC



Conformity

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Confirmation

Further information

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=3RW5247-2AC14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5247-2AC14}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-2AC14&lang=en

 $\label{lem:characteristics} \textbf{Characteristics}, \ \textbf{I}^{2}\textbf{t}, \ \textbf{Let-through current}$

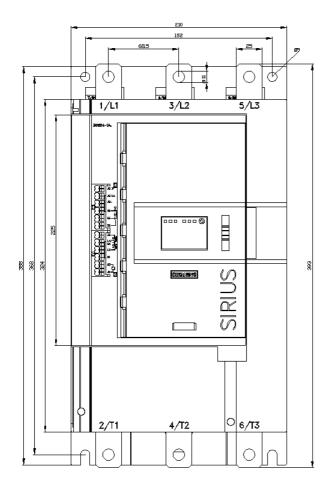
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC14/char

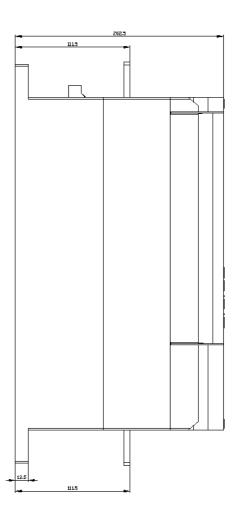
Characteristic: Installation altitude

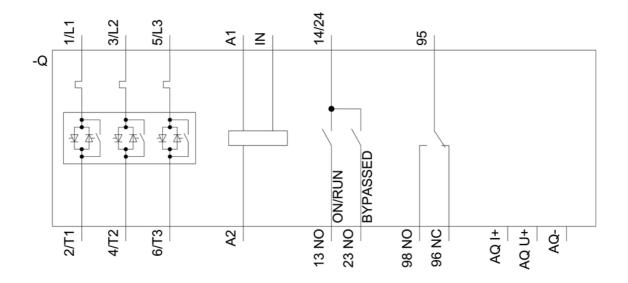
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5247-2AC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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