SIEMENS

Data sheet 3RW5246-2AC15



SIRIUS soft starter 200-600 V 370 A, 110-250 V AC spring-type terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

3NE1334-2; Type of coordination 2, Iq = 65 kA

3NE3336; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

	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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
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 	370 A
 at 50 °C rated value 	328 A
 at 60 °C rated value 	300 A
operational current at inside-delta circuit	
 at 40 °C rated value 	641 A
 at 50 °C rated value 	568 A
 at 60 °C rated value 	519 A
operating voltage	
rated value	200 600 V
 at inside-delta circuit rated value 	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-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 	110 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	200 kW
 at 400 V at 40 °C rated value 	200 kW
• at 400 V at inside-delta circuit at 40 °C rated value	355 kW
 at 500 V at 40 °C rated value 	250 kW

a at E00 V at incide delta circuit at 40 °C retad value	450 1/11
at 500 V at inside-delta circuit at 40 °C rated value Operating frequency 4 rated value	450 kW
Operating frequency 1 rated value Operating frequency 2 rated value	50 Hz 60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	10 /0
at rotary coding switch on switch position 1	160 A
at rotary coding switch on switch position 2	174 A
at rotary coding switch on switch position 3	188 A
at rotary coding switch on switch position 4	202 A
at rotary coding switch on switch position 5	216 A
 at rotary coding switch on switch position 6 	230 A
 at rotary coding switch on switch position 7 	244 A
 at rotary coding switch on switch position 8 	258 A
 at rotary coding switch on switch position 9 	272 A
 at rotary coding switch on switch position 10 	286 A
 at rotary coding switch on switch position 11 	300 A
 at rotary coding switch on switch position 12 	314 A
 at rotary coding switch on switch position 13 	328 A
at rotary coding switch on switch position 14	342 A
at rotary coding switch on switch position 15	356 A
at rotary coding switch on switch position 16	370 A
• minimum	160 A
of r inside-delta circuit at rotary coding switch on switch position 1	277 A
for inside-delta circuit at rotary coding switch on switch position 2	301 A
for inside-delta circuit at rotary coding switch on switch position 3	326 A
 for inside-delta circuit at rotary coding switch on switch position 4 	350 A
 for inside-delta circuit at rotary coding switch on switch position 5 	374 A
 for inside-delta circuit at rotary coding switch on switch position 6 	398 A
for inside-delta circuit at rotary coding switch on switch position 7	423 A
for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on switch on switch and switch on swi	447 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	471 A 495 A
switch position 10 • for inside-delta circuit at rotary coding switch on	520 A
switch position 11 • for inside-delta circuit at rotary coding switch on	544 A
switch position 12 • for inside-delta circuit at rotary coding switch on	568 A
switch position 13 • for inside-delta circuit at rotary coding switch on	592 A
switch position 14 for inside-delta circuit at rotary coding switch on	617 A
switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16	641 A
at inside-delta circuit minimum	277 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	123 W
at 50 °C after startup	110 W
at 60 °C after startup	102 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	5 575 W
at 50 °C during startup	4 706 W
at 60 °C during startup	4 157 W

Control circuit/ Control

type of voltage of the control supply voltage control supply voltage at AC at 50 Hz		
* at 8.0 Hz relative negative tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage factor tolerance control supply voltage factor for supply voltage relative positive tolerance of the control supply voltage factor for supply voltage control supply voltage for tolerance duration of insub current peak at application of control supply voltage results for the overvoltage protection duration of insub current peak at application of control supply voltage results for the overvoltage protection duration of insub current peak at application of control supply voltage results for the overvoltage protection duration of insub current peak at application of control supply voltage results for the overvoltage protection duration of insub current peak at application of control supply voltage results for the overvoltage protection duration of insub active factor for the voltage factor	type of voltage of the control supply voltage	AC
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voltage at AC at 50 Hz voltage at AC at 60 Hz voltage frequency voltage to expect of the control supply voltage at AC at 60 Hz voltage frequency	● at 60 Hz	110 250 V
voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value locked-rotor current at close of bypass contact 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 reputal Couputs **Protection** **Incurrent** **		-15 %
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depth 203 mm required spacing with side-by-side mounting 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals type of electrical connection • for main current circuit busbar connection • for control circuit spring-loaded terminals width of connectable conductor cross-sections 45 mm • 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 2x (0.25 1.5 mm²) • for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (0.25 1.5 mm²)	height	393 mm
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type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)		
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (0.25 1.5 mm²) 		TOTAL
 for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 		2x (50 240 mm²)
 type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 		
 for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 	of Birt Sasio lag for main contacts inlery stranded	= = 10 mm /
 for control circuit finely stranded with core end processing at AWG cables for control circuit solid 2x (0.25 1.5 mm²) 2x (24 16) 	type of connectable conductor cross-sections	
• at AWG cables for control circuit solid 2x (24 16)		2x (0.25 1.5 mm²)
	for control circuit solidfor control circuit finely stranded with core end	
	 for control circuit solid for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)

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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value 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 Certificates/ approvals General Product Approval	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp 600 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2
 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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value 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 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp 600 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
 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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value 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 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp 600 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
 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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp 600 hp R300-B300
 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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp 600 hp R300-B300
 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 575/600 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 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp
 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 575/600 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 4575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value 	125 hp 250 hp 300 hp 200 hp 200 hp 450 hp
 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 575/600 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 4575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated 	125 hp 250 hp 300 hp 200 hp 200 hp
 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 575/600 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 	125 hp 250 hp 300 hp 200 hp 200 hp
 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 575/600 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 	125 hp 250 hp 300 hp 200 hp
 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 575/600 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 	125 hp 250 hp 300 hp 200 hp
 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 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated 	125 hp 250 hp 300 hp
 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 575/600 V at 50 °C rated value 	125 hp 250 hp 300 hp
 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 	125 hp 250 hp
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value 	125 hp
• at 200/208 V at 50 °C rated value	•
	100 hp
operating power [hp] for 3-phase motors	400 hp
 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
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 18 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 up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 18 kA
• of the fuse	
manufacturer's article number	
UL/CSA ratings	
PROFIBUS	Yes
Modbus TCP	Yes
Modbus RTU	Yes
PROFINET standard EtherNet/IP	Yes
communication module is supported • PROFINET standard	Yes
Communication/ Protocol	
	acc. to IEC 60947-4-2. Class A
during transport according to IEC 60721 EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
during storage according to IEC 60721 during transport according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721 during storage according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
environmental category	2V6 (no ice formation only conscious) conderestion) 200 (see all
during storage and transport	-40 +80 °C
	above
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
installation altitude at height above sea level maximum ambient temperature	5 000 m; Derating as of 1000 m, see catalog
Ambient conditions	F 000 my Develop on of 1000 my and addition
for auxiliary and control contacts with screw-type terminals Applications	7 10.3 lbf·in
• for main contacts with screw-type terminals	124 210 lbf·in
tightening torque [lbf·in]	
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
• for main contacts with screw-type terminals	14 24 N·m
tightening torque	
 at the digital inputs at AC maximum 	100 m
	800 m
 between soft starter and motor maximum 	



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

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=3RW5246-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5246-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5246-2AC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

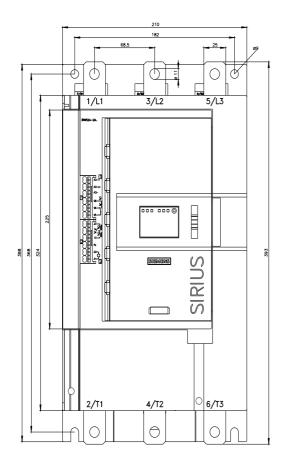
https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC15/char

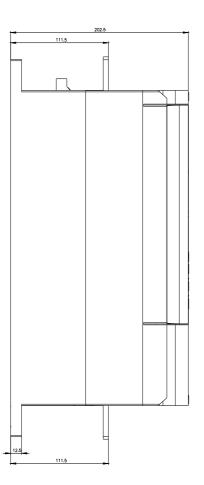
Characteristic: Installation altitude

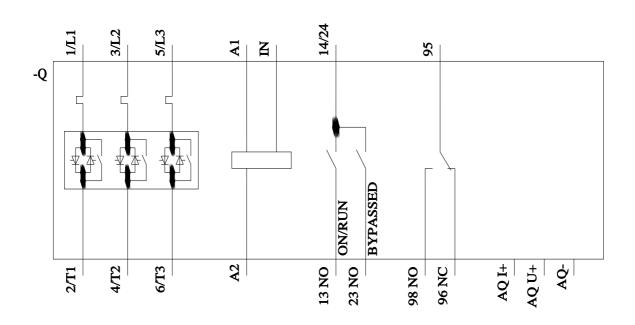
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5246-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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