## **SIEMENS**

Data sheet 3RW5547-6HA14



SIRIUS soft starter 200-480 V 470 A, 110-250 V AC Screw terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1436-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3340-8: Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3

accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	· ·
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
recovery time after overload trip adjustable	60 1 800 s
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
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reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET  • manual RESET  • remote reset	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET  • manual RESET  • remote reset  • communication function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection  • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

a anring type terminal	No
spring-type terminal	
<ul> <li>PROFlenergy</li> </ul>	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
·	Yes
• combined braking	
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
• condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	470 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	94 A
<ul> <li>at 50 °C rated value</li> </ul>	416 A
at 60 °C rated value	380 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	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
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	250 kW
at 400 V at 40 °C rated value	250 kW
• at 400 V at inside-delta circuit at 40 °C rated value	400 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	141 W
at 50 °C after startup	125 W
at 60 °C after startup	114 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	7 651 W
• at 50 °C during startup	6 400 W
at 60 °C during startup	5 620 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
control supply voltage at AC	NO TO THE PROPERTY OF THE PROP
control supply voltage at AO	
● at 50 Hz	110 250 V

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• 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	100 mA
holding current in bypass operation rated value	150 mA
locked-rotor current at close of bypass contact	0.87 A
maximum	
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
· ·	
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 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	10.9 kg
Connections/ Terminals	10.0 kg
type of electrical connection	husbar connection
for main current circuit	busbar connection
- for control size: It	a average from a factorial and a
• for control circuit	screw-type terminals
width of connection bar maximum	screw-type terminals 45 mm
width of connection bar maximum wire length for thermistor connection	45 mm
width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	45 mm 50 m
width of connection bar maximum wire length for thermistor connection	45 mm

type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at 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 DC 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	7 10.3 lbf·in
terminals	7 10.0 lbf lift
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 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
<ul> <li>during transport acc. to IEC 60721</li> </ul>	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	
<ul> <li>PROFINET standard</li> </ul>	Yes
PROFINET high-feature	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse	
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
	150 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul>	·
	350 hp 250 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> </ul>	350 hp

contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y

Certificates/ approvals

**General Product Approval** 

**EMC** 

For use in hazardous locations













For use in hazardous locations 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=3RW5547-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5547-6HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5547-6HA14

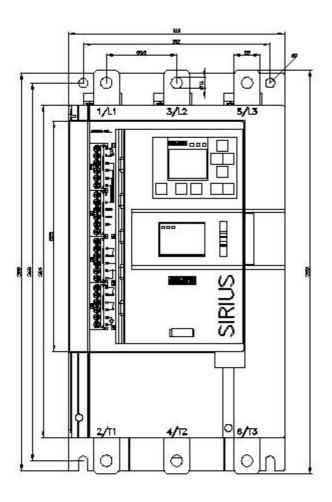
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

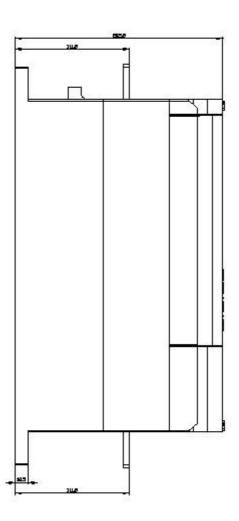
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5547-6HA14&lang=en

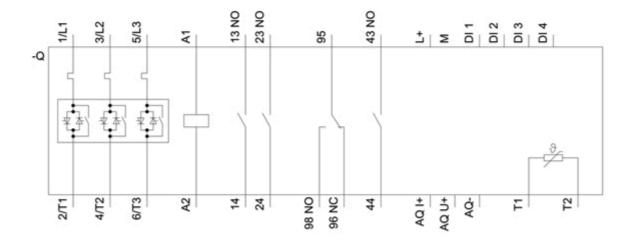
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5547-6HA14/char

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917







last modified: 3/9/2021 🖸