## SIEMENS

## Data sheet

## 3RW5544-6HA14



SIRIUS soft starter 200-480 V 250 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>	<u>3RW5980-0HF00</u>				
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>				
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>				
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>				
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>				
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>				
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>				
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10				
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0: Type of coordination 1. lq = 65 kA. CLASS 10				
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10				
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA				
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; 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>	<u>3NE1331-0; Type of coordination 2, Iq = 65 kA</u>				
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3335: Type of coordination 2. Iq = 65 kA</u>				
eneral 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> <li>UL approval</li> </ul>	Yes				
CSA approval	Yes				
product component					
HMI-High Feature	Yes				
<ul> <li>is supported HMI-High Feature</li> </ul>	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					
<ul> <li>for main current circuit</li> </ul>	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					
<ul> <li>between main and auxiliary circuit</li> </ul>	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				
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				
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				
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				
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         • creep speed in both directions of rotation         • pump ramp down	Q 15.02.2018 00:00:00 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	Q 15.02.2018 00:00:00 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				
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	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         • slave pointer function         • trace function	Q 15.02.2018 00:00:00 Yes 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         • slave pointer function	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         • slave pointer function         • trace function	Q 15.02.2018 00:00:00 Yes 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         • slave pointer function         • trace function         • intrinsic device protection	Q 15.02.2018 00:00:00 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         • 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				
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				
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	Q 15.02.2018 00:00:00 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         • 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				
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         • inside-delta circuit         • auto-RESET         • manual RESET	Q 15.02.2018 00:00:00 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         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor RESET         • manual RESET         • remote reset	Q 15.02.2018 00:00:00 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         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor RESET         • manual RESET         • remote reset         • communication function	Q 15.02.2018 00:00:00 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         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor RESET         • remote reset         • communication function	Q 15.02.2018 00:00:00 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         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • motor eletta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list	Q 15.02.2018 00:00:00 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         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • motor overload protection         • 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				
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function <ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> </ul> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li>	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes				

<ul> <li>spring-type terminal</li> </ul>	No				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-				
	Feature communication modules				
firmware update	Yes				
<ul> <li>removable terminal for control circuit</li> </ul>	Yes				
<ul> <li>voltage ramp</li> </ul>	Yes				
torque control	Yes				
<ul> <li>combined braking</li> </ul>	Yes				
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V				
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes				
<ul> <li>condition monitoring</li> </ul>	Yes				
<ul> <li>automatic parameterisation</li> </ul>	Yes				
<ul> <li>application wizards</li> </ul>	Yes				
<ul> <li>alternative run-down</li> </ul>	Yes				
<ul> <li>emergency operation mode</li> </ul>	Yes				
<ul> <li>reversing operation</li> </ul>	Yes				
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes				
Power Electronics					
operational current					
• at 40 °C rated value	250 A				
<ul> <li>at 40 °C rated value minimum</li> </ul>	50 A				
• at 50 °C rated value	220 A				
• at 60 °C rated value	200 A				
operational current at inside-delta circuit					
• at 40 °C rated value	433 A				
• at 50 °C rated value	381 A				
• at 60 °C rated value	346 A				
operating voltage					
rated value	200 480 V				
<ul> <li>at inside-delta circuit rated value</li> </ul>	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 inside-delta circuit	-15 %				
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	75 kW				
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	132 kW				
● at 400 V at 40 °C rated value	132 kW				
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	250 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	75 W				
• at 50 °C after startup	66 W				
• at 60 °C after startup	60 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	3 806 W				
• at 50 °C during startup	3 176 W				
• at 60 °C during startup	2 787 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					
• at 50 Hz	110 250 V				
■ al JUTIZ	110 ZJU 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	100 mA				
holding current in bypass operation rated value	150 mA				
locked-rotor current at close of bypass contact maximum	0.87 A				
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				
<ul> <li>number of digital outputs not parameterizable</li> </ul>	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					
• at AC-15 at 250 V rated value	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					
<ul> <li>forwards</li> </ul>	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards	75 mm				
• at the side	5 mm				
weight without packaging	10.2 kg				
Connections/ Terminals					
type of electrical connection					
<ul> <li>for main current circuit</li> </ul>	busbar connection				
for control circuit	screw-type terminals				
width of connection bar maximum	45 mm				
wire length for thermistor connection					
• with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m				
-	50 m 150 m 250 m				

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type of connectable conductor cross-sections					
• for DIN cable lug for main contacts stranded	2x (50 240 mm <sup>2</sup> )				
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)				
type of connectable conductor cross-sections					
for control circuit solid	1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )				
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )				
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)				
wire length					
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m				
at the digital inputs at DC maximum	1 000 m				
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m				
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m				
tightening torque [lbf·in]					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in				
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in				
Ambient conditions					
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C				
environmental category					
<ul> <li>during operation acc. to IEC 60721</li> </ul>	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				
EMC emitted interference Communication/ Protocol	acc. to IEC 60947-4-2: Class A				
	acc. to IEC 60947-4-2: Class A				
Communication/ Protocol	Yes				
Communication/ Protocol communication module is supported					
Communication/ Protocol communication module is supported • PROFINET standard	Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	Yes Yes Yes Yes Yes Yes				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at	Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-	Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA				
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for Standard Faults at 575/600 V	Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
Communication/ Protocol communication module is supported PROFINET standard PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for Standard Faults at 575/600 V according to UL - usable for High Faults at 575/600 V at inside-	Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
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Communication Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V according to UL - usable for High Faults at 575/600 V at inside- delta circuit according to UL - usable for Standard Faults at 575/600 V at usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
Communication Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA				

				Type: Class J / L, max. 800 A; Iq = 18 kA			
circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL			Type: Class J / L, max. 800 A; lq = 100 kA				
operating power [hp]	_						
	-		60 hi	1			
	200/208 V at 50 °C rated value						
	<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul>			75 hp 150 hp			
		0 °C rated					
value				125 hp			
value	<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>			150 hp			
value	• at 460/480 V at inside-delta circuit at 50 °C rated value			300 hp			
contact rating of auxi	iliary contacts accord	ling to UL	R300	)-B300			
Safety related data							
protection class IP or	n the front acc. to IEC	60529	IP00	; IP20 with cover			
touch protection on t	he front acc. to IEC 6	0529	finge	r-safe, for vertical cont	tact from the front with	cover	
electromagnetic com			-	to IEC 60947-4-2			
ATEX	,						
			_				
certificate of suitabili	ty						
• ATEX			Yes				
<ul> <li>IECEx</li> </ul>			Yes				
<ul> <li>according to ATE</li> </ul>	EX directive 2014/34/E	U	BVS	18 ATEX F 003 X			
type of protection acc 2014/34/EU	cording to ATEX dire	ctive			b] [Ex pxb Gb], II (2)D	[Ex tb Db] [Ex pxb Db],	
hardware fault tolera	nce acc. to IEC 61508	relating to	0	) [Ex db Mb]			
ATEX PFDavg with low dem	nand rate acc. to IEC	61508	0.008	3			
relating to ATEX			0.0000005.4%				
PFHD with high dema to ATEX			0.0000005 1/h				
Safety Integrity Level to ATEX			SIL1				
T1 value for proof tes IEC 61508 relating to	ATEX	ife acc. to	3 у				
Certificates/ approvals							
General Product App	proval				EMC	For use in hazard- ous locations	
		Ű		EHC	RCM	IECEx	
For use in hazard-	Declaration of						
ous locations	Conformity	Test Certifica	ates	Marine / Shipping			
ATEX	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re	<u>rtific-</u> port	ABS	BUREAU VERITAS	Lloyd's Kegister urs	
Marine / Shipping		other					
warme / Smpping		other					
PRS	DNV-GL DNV-GL	<u>Confirmatio</u>	<u>on</u>				

## **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=3RW5544-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5544-6HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-6HA14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5544-6HA14&lang=en

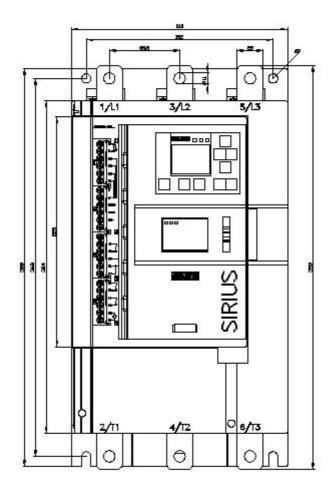
Characteristic: Tripping characteristics, I2t, Let-through current

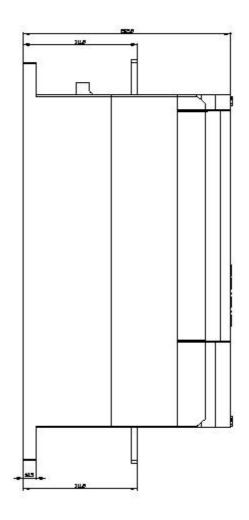
https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-6HA14/char

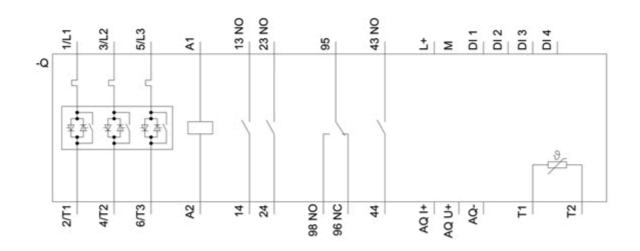
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5544-6HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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