## SIEMENS

## Data sheet

## 3RW5513-1HA15



SIRIUS soft starter 200-600 V 13 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>	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4TA10: Type of coordination 1. Iq = 18 kA. CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3820-6: Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>		
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1815-0; 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>3NE8017-1: Type of coordination 2. Iq = 65 kA</u>		
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> <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	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	1.15			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
<ul> <li>between main and auxiliary circuit</li> </ul>	600 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			
vibration resistance reference code acc. to IEC 81346-2	15 mm up to 6 Hz; 2 g up to 500 Hz Q			
reference code acc. to IEC 81346-2	Q			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	Q			
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)         • ramp-down (soft stop)         • breakaway pulse	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			
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         • 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			
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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			
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	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				
• Pitterienergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules			
<ul> <li>firmware update</li> </ul>	Yes			
<ul> <li>removable terminal for control circuit</li> </ul>	Yes			
<ul> <li>voltage ramp</li> </ul>	Yes			
• torque control	Yes			
combined braking	Yes			
analog output	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	13 A			
• at 40 °C rated value minimum	2.5 A			
• at 50 °C rated value	11.5 A			
• at 60 °C rated value	10.5 A			
operational current at inside-delta circuit				
• at 40 °C rated value	22.5 A			
• at 50 °C rated value	19.9 A			
• at 60 °C rated value	18.2 A			
operating voltage				
rated value	200 600 V			
<ul> <li>at inside-delta circuit rated value</li> </ul>	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	10 %			
relative positive tolerance of the operating voltage at inside-delta circuit				
operating power for 3-phase motors				
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	3 kW			
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	5.5 kW			
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	5.5 kW			
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	11 kW			
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	7.5 kW			
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	15 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	4 W			
• at 50 °C after startup	3 W			
at 60 °C after startup	3 W			
power loss [W] at AC at current limitation 350 %				
• at 40 °C during startup	198 W			
• at 50 °C during startup	166 W			
at 60 °C during startup	148 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
• 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	165 mA
locked-rotor current at close of bypass contact maximum	0.2 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
number of digital outputs parameterizable	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	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	40
• forwards	10 mm
backwards	0 mm
<ul> <li>upwards</li> <li>downwards</li> </ul>	100 mm
downwards     at the side	75 mm 5 mm
• at the side weight without packaging	2.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	screw-type terminals
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m

<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m				
type of connectable conductor cross-sections					
for main contacts					
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)				
— finely stranded with core end processing	2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )				
at AWG cables for main current circuit solid	2x (1.0 2.5 mm <sup>-</sup> ), 2x (2.5 6.0 mm <sup>-</sup> ) 2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections					
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )				
processing					
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)				
wire length					
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m				
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m				
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				
<ul> <li>during storage and transport</li> </ul>	-25 +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				
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must				
a during transport and to IEC 60731	not get inside the devices), 1M4				
• during transport acc. to IEC 60721  EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on request				
	acc. to TEC 00347-4-2. Class A, Class B off Tequest				
Communication/ Protocol					
communication module is supported	No.				
PROFINET standard	Yes				
PROFINET high-feature	No				
• EtherNet/IP	No				
Modbus RTU	No				
Modbus TCP	Yes				
• PROFIBUS	Yes				
UL/CSA ratings					
manufacturer's article number					
• of circuit breaker					
— usable for Standard Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA				
— usable for High Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA				
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA				
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA				
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA				
<ul> <li>— usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA				
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA				
• of the fuse					
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA				
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 50 A; lq = 100 kA				
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA				
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 50 A; lq = 100 kA				
operating power [hp] for 3-phase motors					

at 200208 V at 50 ° C raided value       2 hp         at 200208 V at 50 ° C raided value       3 hp         at 4504400 V at 50 ° C raided value       10 hp         at 4504400 V at inside-delta circuit at 50 °C raided       5 hp         at 3750600 V at inside-delta circuit at 50 °C raided       10 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       17 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 3750600 V at inside-delta circuit at 50 °C raided       16 hp         at 375060 V at inside-delta circuit at 50 °C raided       17 hp         at 375060 V at inside-delta circuit at 50 °C raided       17 hp         delta rotation of the front acc. to IEC 60529       12 00         fordet for at 10 hp       12 00 (Fe ht 60 K) [Ex ph 60 ], 11 (2) 0 [Ex th 0b], [Ex ph 0b], 10 (2) [Ex ph 0b], 10 (2								
4 440440 V at 50 °C rated value     7.5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 10000000000000000000000000000000000	• at 200/208 V at	50 °C rated value		2 hp				
4 440440 V at 50 °C rated value     7.5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     5 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     10 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 757800 V at inside-detta circuit at 50 °C rated     11 hp       9.11 10000000000000000000000000000000000	• at 220/230 V at	50 °C rated value		3 hp				
• all afformed value       0 mp         • all afformed value       5 mp         • all afformed value       10 hp	● at 460/480 V at	50 °C rated value						
a. 20/02/08 V at inside-defia circuit at 50 °C rated     5 hp       a. 42/02/08 V at inside-defia circuit at 50 °C rated     5 hp       a. 48/02/80 V at inside-defia circuit at 50 °C rated     10 hp       a. at 48/02/80 V at inside-defia circuit at 50 °C rated     10 hp       a. at 48/02/80 V at inside-defia circuit at 50 °C rated     10 hp       a. at 48/02/80 V at inside-defia circuit at 50 °C rated     10 hp       a. at 50/02/80 V at inside-defia circuit at 50 °C rated     10 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     10 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     16 hp       a. at 50/02 V at inside-defia circuit at 50 °C rated     1700       a. at 50/02 V at inside-defia circuit at 50 °C rated     1700       a. at 50/02 V at inside-defia circuit at 50 °C rated     1700       b. at 50/02 V at inside-defination at 50 °C rated     1700       b. at 50/02 V at inside defination at 50 °C rated     1700 °C rate 60 fb) [Ex rot 60;								
1 220/230 V at inside-delta circuit at 50 °C rated     5 hp       • at 450/480 V at inside-delta circuit at 50 °C rated     10 hp       • at 575/600 V at inside-delta circuit at 50 °C rated     10 hp       • at 575/600 V at inside-delta circuit at 50 °C rated     15 hp       • contract rating of auxiliary contacts according to UL     R300-8300       Safery Instead data     IP20       protection class Point for fort acc. to IEC 60529     IP20       fouch protection acting to ATEX directive 2014/34/EU     Yes       Pype of protection according to ATEX directive 2014/34/EU     Yes       Pype of protection according to ATEX directive 2014/34/EU     Yes       Pype of protection according to ATEX directive 2014/34/EU     Value       Pype of protection according to ATEX directive 2014/34/EU     Value       Pype of protection according to ATEX directive 2014/34/EU     Value       Pype of protection according to ATEX directive 2014/34/EU     UA(2) [Ex db Mb]       Outfleates/ approvals     EMC       Conting to ATEX     Image: Safery Integrity Level (SL) acc. to IEC 61508 relating to T       Safery Integrity Level (SL) acc. to IEC 61508 relating to T     Image: Safery Integrity Level (SL) acc. to IEC 61508 relating to T       Outfleates/ approvals     EMC     For use in hazard-       Outfleates/ approvals     Image: Safery Integrity Level (SL) acc. to IEC Confine-       Image: Safery Integrity Level (SL) acc. to IEC C	• at 200/208 V at		50 °C rated					
exist     10 hp       exist     10 hp       exist     15 hp       contact rating of auxiliary contacts according to UL     R300-B300       Safey foolated data     IP20       protection of the front acc. to IEC 60529     IP20       touch protection according to ATEX directive 2014/34/EU     IP20       Pype of protection according to ATEX directive 2014/34/EU     Yes       Yes     Yes       Safey Integrity Lowel (BL) acc. to IEC 61508 relating to ATEX directive 2014/34/EU     II (2) (Exc to 6) (Exc to 6) (Exc to 6) (Exc pto Gb), II (2) (Exc to Db) (Exc pto Db), II (2) (Exc to Db) (	• at 220/230 V at	inside-delta circuit at	at 50 °C rated					
• st 575600 V at inside-delta circuit at 50 °C rated yale     15 hp       • stronter traing of auxiliary contacts according to UL     R300-B300       Safety rolated data     IP20       protection class IP for the front acc. to IEC 60529     Inger-safe, for vertical contact from the front according to ATEX For according to ATEX For according to ATEX For according to ATEX directive 2014/34/EU     IP20       Protection according to ATEX directive 2014/34/EU     Yes     Yes       • ATEX     Yes     Yes       • Cording to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X     IV20 For othe for according to ATEX directive 2014/34/EU       Pye of protection according to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X     IV20 For use in hazard       Bardware fault tolerance acc. to IEC 61508 relating to ATEX for according to ATEX directive 2014/34/EU     II (20 Ex do Mb)     IV20 For use in hazard       Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX     SIL 1     IV20 For use in hazard     IV20 For use in hazard       Cordinates approvals     Emec     For use in hazard     IV20 For use in hazard     IV20 For use in hazard       Exercise     Exercise     Itex Certificates     Marine / Shipping     Itex For Use in hazard       Exercise     Exercise Report     Itex Certificates     Itex For Use in hazard       Exercise     Exercise Report     Itex Certificates     Itex For Use in Hazard       Exercise<	• at 460/480 V at	inside-delta circuit at	50 °C rated	10 h	10 hp			
contact rating of auxiliary contacts according to UL       R300-B300         Safety related data         protection class IP on the front acc. to IEC 60529         Interface of suitability         contact into front acc. to IEC 60529         IP20         for vertical contact from the front acc. to IEC 60529         IP20         for vertical contact from the front acc. to IEC 60529         IP20         Conting to ATEX directive 2014/34/EU         Yes         Succed for suitability         ATEX         Yes         Succed for suitability         Yes<	• at 575/600 V at	inside-delta circuit at	50 °C rated	15 h	р			
Safety rolated data         protection class IP on the front acc. to IEC 60529         ibuch protection acc. to IEC 60529         electromagnetic compatibility         acc. to IEC 60947.4-2         ATEX         certificate of suitability         • ATEX         'electromagnetic compatibility         • ATEX         'electromagnetic of suitability         • ATEX         'electromagnetic of suitability         • ATEX         'electromagnetic of suitability         • according to ATEX directive 2014/34/EU         Vpo e protection according to ATEX directive 2014/34/EU         Pyre of protection according to ATEX directive 2014/34/EU         Pyre according to AtEX di		viliary contacts accor	rding to III	R30	0-B300			
protection class IP on the front acc. to IEC 60529     IP20       touch protection on the front acc. to IEC 60529     Inger-safe, for vertical contact from the front acc. to IEC 60947.4-2       ATEX     Certificate of suitability     Acc. to IEC 60947.4-2       ATEX     Yes     Yes       • ATEX     Yes       • IECEX     Yes       • Decording to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X       Type of protection according to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X       Inderse fault tolerance acc. to IEC 61508 relating to ATEX     0       Safety Integrity Lavel (SIL) acc. to IEC 61508 relating to ATEX     0       Certificates/ approvals     EMC       General Product Approval     EMC       If contormity     Test Certificates       Marine / Shipping     Ites Certificates       Marine / Shipping     Other       If confirmation     Confirmation	_			130	0-0500			
touch protection on the front acc. to IEC 60529       finger-safe, for vertical contact from the front acc. to IEC 60947-4-2         electromagnetic compatibility       acc. to IEC 60947-4-2         ATEX       Yes         • ATEX       Yes         • BECEX       Yes         • BECK       Yes         • CEX       Yes         • BECK       Yes         • CEX       Yes         • Beck of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         Itype of protection acc. to IEC 61508 relating to ATEX       SIL 1         Conformity       Test Certificates       Marine / Shipping         General Product Approval       Image Strest Report       Image St	-				_	_		
electromagnetic compatibility       acc. to IEC 60947-4-2         ATEX       Ves         eordificate of suitability       ATEX         i:ECEx       Ves         according to ATEX directive 2014/34/EU       BVS 18 ATEX F 003 X         type of protection according to ATEX directive 2014/34/EU       II (2)G [Ex eb Gb] [Ex bb Gb], II (2)D [Ex th Db] [Ex pxb Db], I (2)D [Ex pxb Db], I (2)D [Ex th Db] [Ex pxb Db], I (2)D [Ex th Db] [Ex pxb Db], I (2)D [Ex th Db] [Ex pxb Db], I (2)D [Ex pxb D	-							
ATEX         certificate of sultability <ul> <li>ATEX</li> <li>ECEX</li> <li>according to ATEX directive 2014/3/FU</li> <li>By S 18 ATEX F 003 X</li> <li>By S 18 ATEX F 003 X</li> <li>By S 18 ATEX F 003 X</li> <li>II (2) Ex eb C (2) [Ex eb C (</li></ul>	touch protection on	the front acc. to IEC	60529	finge	er-safe, for vertical cont	act from the front		
certificate of suitability <ul> <li>ATEX</li> <li>IECEX</li> <li>according to ATEX directive 2014/34/EU</li> <li>BVS 18 ATEX F 003 X</li> <li>BVS 18 ATEX F 003 X</li> <li>I(2)C [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (2)D [Ex tb Db] [Ex p</li></ul>	electromagnetic cor	npatibility		acc.	to IEC 60947-4-2			
• ATEX       Yes         • ECEX       BvS 18 ATEX F 03 X         Type of protection according to ATEX directive       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]         Andware fault tolerance acc. to IEC 61508 relating to ATEX       0         Andware fault tolerance acc. to IEC 61508 relating to ATEX       0         Safety Integrity Level (SIL) acc. to IEC 61508 relating to CCC       SIL 1         Continues       Continues       Continues         Continues       CCC       For use in hazard-Cous Icc for the Conformity       Conformity         Conformity       Conformity       Test Certificates       Marine / Shipping         Conformity       Conformity       Conformity       Conformity         Marine / Shipping       Conformity       Conformity       Conformity         Marine / Shipping       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Site Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity <td>ATEX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ATEX							
• ATEX       Yes         • ECEX       BvS 18 ATEX F 03 X         Type of protection according to ATEX directive       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]         Andware fault tolerance acc. to IEC 61508 relating to ATEX       0         Andware fault tolerance acc. to IEC 61508 relating to ATEX       0         Safety Integrity Level (SIL) acc. to IEC 61508 relating to CCC       SIL 1         Continues       Continues       Continues         Continues       CCC       For use in hazard-Cous Icc for the Conformity       Conformity         Conformity       Conformity       Test Certificates       Marine / Shipping         Conformity       Conformity       Conformity       Conformity         Marine / Shipping       Conformity       Conformity       Conformity         Marine / Shipping       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Site Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity         Conformity       Conformity       Conformity       Conformity <td>certificate of suitabi</td> <td>lity</td> <td></td> <td></td> <td></td> <td></td> <td></td>	certificate of suitabi	lity						
• IECEX     Yes       • according to ATEX directive 2014/34/EU     PK 54 FOO 3 X       Type of protection according to ATEX directive     PK 56 GD [Ex ado Gb] [Ex ado Gb] [Ex pxb Gb], II (2)D [Ex th Db] [Ex pxb Db], II (2)D [Ex th		· •		Yes				
• according to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X       type of protection according to ATEX directive     II (2)G [Ex eb Gb] [Ex pb Gb], II (2)D [Ex lb Db] [Ex pxb Db], II (2)D [Ex								
type of protection according to ATEX directive 2014/34/EU       II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 1 (M2) [Ex db Mb]         hardware fault tolerance acc. to IEC 61508 relating to ATEX       0         Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       0         Certificates/ approvals         General Product Approval         More Certificates/ Cec         Occlaration of Conformity         Type Test Certificates         Marine / Shipping         Other         Marine / Shipping         Confirmation		EX directive 2011/3//	FII		18 ATEX E 003 X			
201434/EU       1(M2) [Ex db Mb]       0         hardware fault tolerance acc. to IEC 61508 relating to ATEX       0         Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       0         Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       SIL1         Certificates/ approvals         EMC         General Product Approval         EMC         Output to a to								
ATEX         Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       SIL1         Certificates/ approvals         General Product Approval       EMC       For use in hazard- ous locations         General Product Approval       EMC       For use in hazard- ous locations         Certificates/       Declaration of Conformity       Test Certificates       Marine / Shipping         For use in hazard- ous locations       Declaration of Conformity       Test Certificates       Marine / Shipping         Marine / Shipping       Other       Other       Declaration       Other         Marine / Shipping       Other       Confirmation       Confirmation         Further information       Confirmation       Confirmation	2014/34/EU	-		I (M2		oj (Ex pxo Goj, II (2)D	נבא נס סטן נבא סאס סטן,	
Certificates/ approvals         EMC       For use in hazard- ous locations         Image: Colspan="2">Image: Colspan="2">For use in hazard- ous locations         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">For use in hazard- ous locations         Image: Colspan="2">Declaration of Conformity       Test Certificates       Marine / Shipping         Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2"	ATEX							
Certificates/ approval         General Product Approval       EMC       For use in hazard- ous locations         See		el (SIL) acc. to IEC 61	508 relating	SIL1				
EMC       For use in hazard- ous locations         Image: Sec s				_				
Ceneral Product Approval       EMC       ous locations         Image: Constraint of ous locations       Image: C	Certificates/ approval	S						
For use in hazard- ous locations       Declaration of Conformity       Test Certificates       Marine / Shipping	General Product Ap	oproval				EMC		
For use in hazard- ous locations       Declaration of Conformity       Test Certificates       Marine / Shipping			~			^		
For use in hazard- ous locations       Declaration of Conformity       Test Certificates       Marine / Shipping	SP	$(\mathbf{w})$	(\U_		FHI	Ø	IECEx	
ous locations     Conformity     Test Certificates     Marine / Shipping       Vision     Image: Conformity of the state of t	CSA	ccc	UL			RCM	IECEx	
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Further information								
Further information	Marine / Shipping		other					
	PRS		<u>Confirmation</u>	<u>on</u>				
	Further information							
		wnloadcenter (Catalo	ogs, Brochures.	)				

Information- and Downloadcenter (Catalogs, Brochures,...) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system) <u>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5513-1HA15</u> Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5513-1HA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5513-1HA15&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

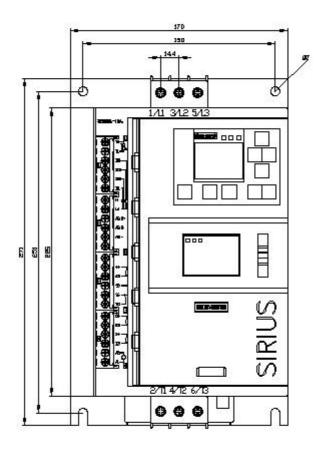
https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA15/char

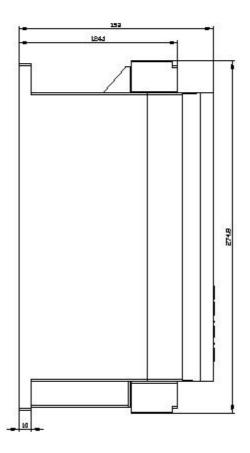
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5513-1HA15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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3/9/2021 🖸