SIEMENS

Data sheet

3RW5515-1HA14



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC Screw terminals

China - China	
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8021-1; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
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 %

accuracy class

torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

20 ... 200 %

125 ... 800 % 40 ... 100 %

5 (based on IEC 61557-12)

0 ... 2 s 3

Yes

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
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
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	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3 Diboron trioxide - 1303-86-2
product function	
 ramp-up (soft starting) 	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
 creep speed in both directions of rotation 	Yes
• pump ramp down	Yes
• DC braking	Yes
motor heating	Yes
slave pointer function	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
 communication function 	Yes
 operating measured value display 	Yes
• event list	Yes
• error logbook	Yes
via software parameterizable	Yes
via software configurable	Yes
screw terminal	Yes
spring-loaded terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes

	Vec
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
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
 emergency operation mode 	Yes
 reversing operation 	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	25 A
 at 40 °C rated value minimum 	5 A
• at 50 °C rated value	22.3 A
• at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
• at 60 °C rated value	33.9 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	40.8/
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	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
• at 400 V at 40 °C rated value	11 kW
at 400 V at inside-delta circuit at 40 °C rated value	18.5 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	8 W
● at 50 °C after startup	7 W
● at 60 °C after startup	6 W
power loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	364 W
● at 50 °C during startup	309 W
● at 60 °C during startup	262 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 %

Ac at 6 is z Security supply voltage frequency 9060 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 standay mode rated value 105 m.A. holding current in standay mode rated value 105 m.A. holding current in standay mode rated value 105 m.A. holding current in standay mode rated value 104 M. holding current in standay mode rated value 104 M. holding current in standay mode rated value 104 M. holding current in standay mode rated value 104 M. design of the overvoltage protection Varistor design of the overvoltage protection of control supply voltage 4 A gG fue (u=1 KA), 6 A quick acting fue (u=1 KA), Cl miniture circuit breaker (u= 500 A); Is not part of supply voltage number of digital inputs 4 number of digital inputs 4 number of digital inputs 3 A number of digital outputs parameterizabe 3 A number of digital outputs 3 A number of digital outputs 3 A number of digital outputs 3 A </th <th></th> <th>10.0/</th>		10.0/			
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frequery	control supply voltage frequency	50 60 Hz			
requery Image: Ima		-10 %			
holding current in bypass operation rated value 165 mA Intrush current peak at application of control supply voltage maximum 0.2 A Unration current peak at application of control supply voltage maximum 0.3 A design of the overvoltage protection Varistor design of the overvoltage protection for control circuit Varistor design of the overvoltage protection Varistor number of digital inputs 4 • parameterizable 4 • unruber of digital outputs separameterizable 4 • unruber of digital outputs not parameterizable 3 • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15 at 250 Vited value 3 A • alt AC-15		10 %			
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	Inputs/ Outputs				
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digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 switching capacity current of the relay outputs a A • at DC-15 at 24 V rated value 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 0 mm • forwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm Very of electrical connection screw-type terminals wire length for thermistor connection screw-type terminals with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m <td> number of digital outputs parameterizable </td> <td>3</td>	 number of digital outputs parameterizable 	3			
number of analog outputs 1 switching capacity current of the relay outputs at AC-15 at 250 V rated value 3 A • at AC-15 at 250 V rated value 1 A Installation/ mounting/ climensions 1 A 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 • forwards 0 mm • upwards 100 mm • upwards 0 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg Connection/ Terminals 50 m • for control circuit screw-type terminals	 number of digital outputs not parameterizable 				
switching capacity current of the relay outputs 3 A • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation' mounting dimensions 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 • • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 57 mm • at the side 5 mm velight without packaging 2.3 kg Connections/ Terminals screw-type terminals • for main current circuit screw-type terminals • for ontol circuit screw-type terminals • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • for onnot clocu					
• at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1A Installation/ mounting/ dimensions 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 • • forwards 0 mm • upwards 100 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals screw-type terminals vifr control circuit screw-type terminals • for control circuit screw-type terminals with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 250 m • with conductor cross-section = 2.5 mm ² maximum 250 m • with conductor cross-section = 2.5 mm ² maximum 250 m • solid 2x (10 2.5 mm ³), 2x (2.5 10 mm ³) • for control	number of analog outputs	1			
• at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 275 mm width 110 mm depth 152 mm required spacing with side-by-side mounting • • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals screw-type terminals with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 50 m • for main current circuit 250 m • with conductor cross-section = 2.5 mm ³ maximum 50 m • for Main contacts - solid - solid 2x (1025 mm ³), 2x (2510 mm ³) • for onnectable co	switching capacity current of the relay outputs				
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 0 mm • forwards 0 mm • backwards 0 mm • downwards 75 mm • downwards 75 mm • downwards 75 mm • downwards 75 mm • downwards 5 mm • downwards 5 mm • at the side 5 mm screw-type terminals screw-type terminals • for main current circuit screw-type terminals • for control circuit screw-type terminals with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-sections 6 or 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	• at AC-15 at 250 V rated value	3 A			
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 • forwards 0 mm • backwards 0 mm • upwards 100 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm • ornototic provents 2.3 kg Connections/Terminals 50 m with conductor cross-section = 0.5 mm ⁹ maximum 50 m • with conductor cross-section = 0.5 mm ⁹ maximum 50 m • with conductor cross-section = 0.5 mm ⁹ maximum 50 m • with conductor cross-section = 2.5 mm ⁹ maximum 50 m • with conductor cross-sections 50 m • for main contacts 2x (1.0 2.5 mm ⁹), 2x (2.5 10 mm ⁹) - solid 2x (1.0 2.5 mm ⁹), 2x (2.5 10 mm ⁹) • for main contacts 2x (1.0 2.5 mm ⁹), 2x (0.5 2.5 mm ⁹)	 at DC-13 at 24 V rated value 	1 A			
fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • backwards 0 mm • backwards 0 mm • downwards 50 mm • at the side 75 mm • at the side 5 mm veight without packaging 2.3 kg Connections/Terminals 50 m type of electrical connection screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • for main current circuit screw-type terminals with conductor cross-section = 2.5 mm² maximum 50 m • for main contacts - solid - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - forely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	Installation/ mounting/ dimensions				
height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting - • forwards 10 mm • backwards 0 mm • backwards 0 mm • downwards 100 mm • downwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm • of electrical connection 5 mm • for control circuit screw-type terminals wire length for thermistor connection • for control circuit • with conductor cross-section = 0.5 mm ^a maximum 50 m • with conductor cross-section = 1.5 mm ^a maximum 50 m • with conductor cross-section = 2.5 mm ^a maximum 250 m • type of connectable conductor cross-sections - solid • of or main current sincuit solid 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) • of or main current solid 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) • of or control circuit solid 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) • of or control circuit solid 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)	mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)			
vidth 170 mm depth 152 mm required spacing with side-by-side mounting 10 mm • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm • at the side 5 mm Connections/ Terminals 2.3 kg Connections/ Terminals screw-type terminals • for control circuit screw-type terminals • for control circuit screw-type terminals • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 250 m • with conductor cross-section = 2.5 mm ² maximum 250 m • with conductor cross-sections - solid • for anin contracts - solid - solid 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) - finely stranded with core end processing 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) • for control circuit solid 1x (0.5	fastening method	screw fixing			
depth 152 mm required spacing with side-by-side mounting 10 mm • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm veight without packaging 2.3 kg Connections/Terminals 5 mm • for control circuit screw-type terminals • for control circuit screw-type terminals with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 250 m • for main contacts - solid - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	height	275 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 2.3 kg Connections/ Terminals 5 mm type of electrical connection screw-type terminals • for main current circuit screw-type terminals with conductor cross-section = 0.5 mm ³ maximum 50 m • with conductor cross-section = 1.5 mm ³ maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 150 m • with conductor cross-sections 250 m • for anin contacts - solid - solid 2x (1.0 2.5 mm ³), 2x (2.5 10 mm ³) • for AWG cables for main current circuit solid 2x (1.0 2.5 mm ³), 2x (2.5 6.0 mm ³) • for control circuit solid 1x (0.5 4.0 mm ³), 2x (0.5 2.5 mm ³) • for control circuit solid 1x (0.5 4.0 mm ³), 2x (0.5 1.5 mm ³)	width	170 mm			
forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• weight without packaging2.3 kgConnections/ Terminals5 mmtype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- forklyG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	depth	152 mm			
• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side2.3 kgConnections/ Terminalstype of electrical connection• for control circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuit50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-sections250 m• for main contrats250 m• for main contrats2x (1.0 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	required spacing with side-by-side mounting				
• upwards100 mm• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalsscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuit50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum150 m• with conductor cross-sections250 m• with conductor cross-sections250 m• of or main contacts2x (1.0 2.5 mm²). 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (1.0 2.5 mm²). 2x (2.5 6.0 mm²)• for control circuit solid1x (0.5 4.0 mm²). 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²). 2x (0.5 1.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²). 2x (0.5 1.5 mm²)	forwards	10 mm			
• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminals2.3 kgconnections/ Terminalsscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections2x (10 2.5 mm²), 2x (2.5 10 mm²)• for main contacts- solid- solid2x (10 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections- for control circuit solid• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	backwards	0 mm			
• at the side5 mmweight without packaging2.3 kgConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)	• upwards	100 mm			
weight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections250 m• for main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	downwards	75 mm			
Connections/ Terminals type of electrical connection • for main current circuit • for control circuit screw-type terminals wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum ± with conductor cross-section = 2.5 mm² maximum ± with conductor cross-sections • for main contacts - solid - solid - finely stranded with core end processing ± for AWG cables for main current circuit solid ± for control circuit solid • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit finely stranded with core end processing 1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)	• at the side	5 mm			
type of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections250 m• for main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections- for control circuit solid• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	weight without packaging	2.3 kg			
• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• wire length for thermistor connectionscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	Connections/ Terminals				
 for control circuit for control circuit screw-type terminals SO m with conductor cross-section = 0.5 mm² maximum SO m with conductor cross-section = 1.5 mm² maximum So m with conductor cross-section = 2.5 mm² maximum So m type of connectable conductor cross-sections for main contacts - solid - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid type of connectable conductor cross-sections if or control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 	type of electrical connection				
wire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts- solid solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	• for main current circuit	screw-type terminals			
• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	for control circuit	screw-type terminals			
• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections	wire length for thermistor connection				
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	 with conductor cross-section = 0.5 mm² maximum 	50 m			
type of connectable conductor cross-sections• for main contacts- solid- solid with core end processing2x (1.0 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	 with conductor cross-section = 1.5 mm² maximum 	150 m			
• for main contacts 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) • for AWG cables for main current circuit solid 2x (16 12), 2x (14 8) type of connectable conductor cross-sections 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	 with conductor cross-section = 2.5 mm² maximum 	250 m			
	type of connectable conductor cross-sections				
— finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	for main contacts				
• for AWG cables for main current circuit solid 2x (16 12), 2x (14 8) type of connectable conductor cross-sections • for control circuit solid • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)			
type of connectable conductor cross-sections• for control circuit solid• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	 — finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)			
 for control circuit solid for control circuit finely stranded with core end processing 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 	 for AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)			
• for control circuit finely stranded with core end processing 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)	type of connectable conductor cross-sections				
	 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
	 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
IOI AVVG CADIES TOR CONTROL CIRCUIT SOLID 1X (20 12), 2X (20 14)	 for AWG cables for control circuit solid 	1x (20 12), 2x (20 14)			
wire length	wire length				
between soft starter and motor maximum 800 m	 between soft starter and motor maximum 	900 m			
at the digital inputs at DC maximum 1 000 m		800 11			

tightening torque			
 for main contacts with screw-type terminals 	2 2.5 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 	18 22 lbf-in		
	7 10.3 lbf·in		
 for auxiliary and control contacts with screw-type terminals 	7 10.5 00111		
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 according 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 according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get		
	inside the devices), 1M4		
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
Environmental footprint			
Siemens Eco Profile (SEP)	Siemens EcoTech		
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
 PROFINET high-feature 	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
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. 70 A or 3VA51, max. 80 A; lq = 5 kA		
— 60/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA		
— at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
— at 575/600 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
— 75/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA		
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
of the fuse			
usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 100 A; lg = 5 kA		
according to UL	1960. Slubb NNO / NO, Max. 100 A, 19 - 0 NA		
— usable for High Faults up to 575/600 V according to	Type: Class J / L, max. 100 A; Iq = 100 kA		
UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 100 A; lq = 5 kA		
	Type: Class J / L, max. 100 A; lq = 100 kA		
operating power [hp] for 3-phase motors			
at 200/208 V at 50 °C rated value	5 hp		
• at 220/230 V at 50 °C rated value	7.5 hp		
• at 460/480 V at 50 °C rated value	15 hp		
 at 200/208 V at isside-delta circuit at 50 °C rated value 	10 hp		
 at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value 	10 hp		
 at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value 	25 hp		
contact rating of auxiliary contacts according to UL	R300-B300		
Electrical Safety			
	IP20		
protection class IP on the front according to IEC 60529			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
Safety Integrity Level (SIL) according to IEC 61508 relating	SIL1		
to ATEX			

PFHD with high dema relating to ATEX	nd rate according to IEC	61508 5E	-7 1/h				
PFDavg with low dema relating to ATEX	and rate according to IEC	61508 0.0	0.008				
hardware fault toleran ATEX	ce according to IEC 6150	8 relating to 0	0				
T1 value for proof test IEC 61508 relating to A	t interval or service life ac ATEX	cording to 3 a	3 а				
certificate of suitabilit	y						
• ATEX		Ye	Yes				
• IECEx		Ye	Yes				
 according to ATE 	X directive 2014/34/EU	BV	S 18 ATEX F 003 X				
	ording to ATEX directive		2)G [Ex eb Gb] [Ex db Gb] (db Mb]	[Ex pxb Gb], II (2)D [Ex	tb Db] [Ex pxb Db], I (M2)		
pprovals Certificates							
General Product App	oval						
SP CM	CE EG-Konf.	UK CA		<u>Confirmation</u>			
General Product Approval	EMV		For use in hazardou	is locations	Test Certificates		
EHC	RCM	KC	IECEx	K ATEX	Type Test Certific- ates/Test Report		
Marine / Shipping				other	Environment		
ABS	BUREAU VERITAS	Lloyds Register uis	PRS	<u>Confirmation</u>	EPD		
Environment							
Siemens EcoTech	Environmental Con- firmations						
urther information							
Information on the page	ckaging siemens.com/cs/ww/en/vie	w/109813875					
Information- and Dow	nloadcenter (Catalogs, Bi						
https://www.siemens.co							
Industry Mall (Online on https://mall.industry.sier	ordering system) mens.com/mall/en/en/Catal	log/product?mlfb=3RV	<u>V5515-1HA14</u>				
Industry Mall (Online on https://mall.industry.sier Cax online generator				<u>\14</u>			

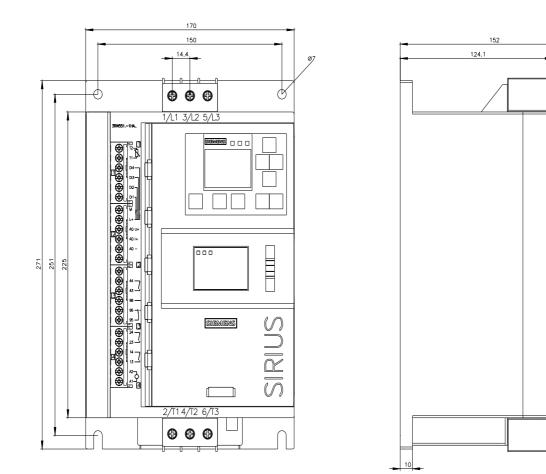
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5515-1HA14&lang=en

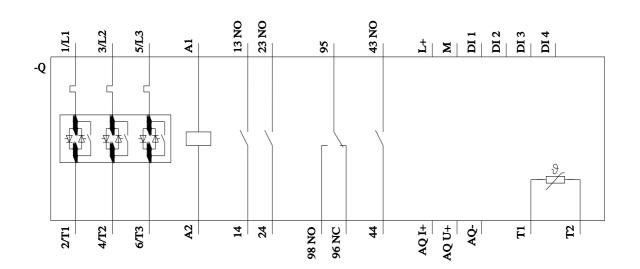
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-1HA14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5515-1HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)





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