SIEMENS

Data sheet

3RW5513-1HA14



SIRIUS soft starter 200-480 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	
 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 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4DA10: Type of coordination 1. lq = 65 kA. CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of the gG fuse usable up to 690 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1815-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8017-1: Type of coordination 2. lq = 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 %
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 according to IEC 61557-12	5 %
accuracy class according to IEO 01557-12	

CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
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
	6 kV
surge voltage resistance rated value maximum permissible voltage for safe isolation	0 KV
	400 V/r do op not opply for the mister composition
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
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
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
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

 removable terminal for control circuit 	Yes
	Yes
 voltage ramp torque control 	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
	Yes
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
 application wizards alternative run-down	Yes
emergency operation mode	Yes
	Yes
reversing operation	Yes
soft starting at heavy starting conditions	tes
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	12 A 11 A
text at 60 °C rated value operational current at inside-delta circuit	11 A
erational current at inside-deita circuit e at 40 °C rated value	22.5 A
at 40 °C rated value at 50 °C rated value	22.5 A 19.9 A
 at 50 °C rated value at 60 °C rated value 	19.9 A 18.2 A
• at 60 °C rated value operating voltage	10.2 A
rated value	200 480 V
at inside-delta circuit rated value	200 480 V 200 480 V
relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	3 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	5.5 kW
 at 400 V at 40 °C rated value 	5.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	11 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 %	400 \\
• 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	110 250 \/
• 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	10 %
voltage at AC at 50 Hz	
relative negative tolerance of the control supply	-15 %

voltage at AC at 60 Hz	
relative positive tolerance of the control supply	10 %
voltage at AC at 60 Hz	50 00.00
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 digital outputs 	4
 number of digital outputs parameterizable 	3
 number of digital outputs not parameterizable 	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
 at AC-15 at 250 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°)
mounting position fastening method	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
	, , , , , , , , , , , , , , , , , , ,
fastening method	screw fixing
fastening method height	screw fixing 275 mm
fastening method height width	screw fixing 275 mm 170 mm
fastening method height width depth	screw fixing 275 mm 170 mm
fastening method height width depth required spacing with side-by-side mounting	screw fixing 275 mm 170 mm 152 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	screw fixing 275 mm 170 mm 152 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit wire length for thermistor connection	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main currets	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals 50 m 150 m 250 m
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • main contacts — solid	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts — solid — finely stranded with core end processing	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • main contacts — solid — finely stranded with core end processing • at AWG cables for main current circuit solid	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main contacts - solid - finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 50 m 150 m 250 m $2x (1.0 \dots 2.5 mm^2), 2x (2.5 \dots 10 mm^2)$ $2x (1.0 \dots 2.5 mm^2), 2x (2.5 \dots 6.0 mm^2)$ $2x (16 \dots 12), 2x (14 \dots 8)$
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main contacts - solid - finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals screw-type terminals 50 m 150 m 250 m 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main current circuit cross-sections • for main contacts - solid - finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid - for control circuit solid	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals 50 m 150 m 250 m $2x (1.0 \dots 2.5 mm^2), 2x (2.5 \dots 10 mm^2)$ $2x (1.0 \dots 2.5 mm^2), 2x (2.5 \dots 6.0 mm^2)$ $2x (16 \dots 12), 2x (14 \dots 8)$
fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main contacts - solid - finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid	screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg

wire length	
between soft starter and motor maximum	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	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
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
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)
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
Communication/ Protocol	
communication module is supported	Vec
PROFINET standard PROFINET high foature	Yes
 PROFINET high-feature EtherNet/IP 	
	Yes
Modbus RTU Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	165
manufacturer's article number	
of circuit breaker	
usable for Standard Faults at 460/480 V	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Ig = 5 kA
according to UL	Siemens type. 5KV2742, max. 40 A or 5VA51, max. 40 A, iq – 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
8	kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
to UL — usable for Standard Faults at 460/480 V at	kA
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-	kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65
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 Standard Faults at 575/600 V	kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
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 Standard 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	kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65
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 Standard Faults at 575/600 V according to UL — usable for High Faults at 575/600 V at inside- delta circuit according to UL	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA
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 Standard 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 inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA
to UL	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA
to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA
 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 Standard 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 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 of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
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 Standard 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 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 up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA
 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 Standard 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 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 up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA
to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 100 kA Type: Class $RK5 / K5$, max. 50 A; lq = 100 kA Type: Class J / L , max. 50 A; lq = 100 kA
to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 100 kA Type: Class J / L , max. 50 A; lq = 100 kA Type: Class J / L , max. 50 A; lq = 100 kA
to UL 	kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 5 kA Type: Class $RK5 / K5$, max. 50 A; lq = 100 kA Type: Class J / L , max. 50 A; lq = 100 kA Z hp

 at 220/230 V at inside-delta circuit at 50 °C rated value 	5 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	10 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
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 db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance according to IEC 61508	
relating to ATEX	
PFDavg with low demand rate according to IEC 61508 relating to ATEX	8 0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 s
Certificates/ approvals	
	ENC
General Product Approval	EMC
	mation ERIC Constant
For use in hazardous locations Declaratio	
IECEX IECEX	Konf. Type Test Certific- ates/Test Report
Marine / Shipping	other
Liks PRS	
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5513-1HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA14

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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA14/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5513-1HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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