SIEMENS

Data sheet

3RW5514-3HF04



SIRIUS soft starter 200-480 V 18 A, 24 V AC/DC spring-type terminals Fail-safe

Figuresi	milar
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product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
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 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1. Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3820-6; Type of coordination 1. Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1802-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8020-1; Type of coordination 2. Iq = 65 kA</u>
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2027</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2027</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT2035</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT2035</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	5 (based on IEC 61557-12)
certificate of suitability	
• CE marking	Yes
• UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
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
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)	11/22/2019
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	No
spring-loaded terminal	Yes
• PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules

e firmulare undate	Yes
 firmware update removable terminal for control circuit 	Yes
	Yes
voltage ramp	Yes
torque control combined braking	Yes
combined braking	
 analog output programmable control inputs/outputs 	Yes; 4 20 mA (default) / 0 10 V 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	165
operational current	
at 40 °C rated value	18 A
at 40 °C rated value	3.5 A
at 50 °C rated value	15.9 A
at 60 °C rated value	13.8 A
operational current at inside-delta circuit	
at 40 °C rated value	31.5 A
at 50 °C rated value	28 A
at 60 °C rated value	23.9 A
operating voltage	2007
• 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 inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	4 kW
• at 230 V at inside-delta circuit at 40 °C rated value	7.5 kW
• at 400 V at 40 °C rated value	7.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	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	5 W
● at 50 °C after startup	5 W
● at 60 °C after startup	4 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	266 W
● at 50 °C during startup	229 W
• at 60 °C during startup	188 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/DC
control supply voltage at AC	011/
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at	-20 %

AC at 60 Hz	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage	-10 %
frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	420 mA
holding current in bypass operation rated value	820 mA
inrush current by closing the bypass contacts maximum	0.91 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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
• with fail-safe	1
parameterizable	4
 number of digital outputs 	3
 Number of digital outputs with fail-safe 	1
 number of digital outputs parameterizable 	2
 number of digital outputs not parameterizable 	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 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
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
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	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
• at the side	5 mm
weight without packaging	2.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	
	spring-loaded terminals
wire length for thermistor connection	50 m
• with conductor cross-section = 0.5 mm ² maximum	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 m
 with conductor cross-section = 2.5 mm² maximum 	250 m

Speed connectable conductor cross-sections - sold 2x (102.5 mm²), 2x (2510 mm²) - a controls 2x (102.5 mm²), 2x (2510 mm²) 2x (102.5 mm²), 2x (2510 mm²) - for ANG active for any accent circuit sold 2x (102.5 mm²), 2x (2510 mm²) 2x (2515 mm²) - for ANG active for any accent circuit sold 2x (2515 mm²) 2x (2416) - for ANG active for any accent circuit sold 2x (2416) 2x (2416) - for ANG active for any accent circuit sold 2x (2416) 2x (2416) - for ANG active for any accent circuit sold 2x (2416) 2x (2416) - for ANG active for any accent circuit sold 2x (2416) 2x (2416) - for animic ortacts with sore whype termination 1000 m 1000 m • for main contacts with sorew hype termination 10012 Mm 10012 Mm • for main contacts with sorew hype termination 1022 forin 710.3 lot in • for main contacts with sorew hype termination 22 for m 02 mon • for main contacts with sorew hype termination 22 for m 02 mon • for main contacts with sorew hype termination 10	Amender and the second state of the second sta	
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during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 ZK2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4.2: Class A Communication. Module is supported PROFINET standard PROFINET standard PROFINET standard Yes EtherNet/IP Ves EtherNet/IP Ves PROFINET standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 457/600 V according to UL usable for Standard Faults at 575/600 V according to UL usable for	 during storage and transport 	-40 +80 °C
(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 Communication module is supported Yes • PROFINET sigh-feature Yes • EtherNet/IP Yes • Modbus RTU Yes • ROFIBUS Yes ULCSA ratings Yes manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA • usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA • usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA • usable for High Faults at 575/600 V according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA • usable for High Faults at 575/600 V according to UL Siemens	environmental category	
• during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EMC emitted interference acc. to IEC 60047-4.2: Class A Communication module is supported • PROFINET standard • PROFINET standard Yes • DROFINET high-feature Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes ULCSA ratings Yes manufacturer's article number • of clicuit breaker - usable for High Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	during operation according to IEC 60721	
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Communication Protocol communication module is supported • PROFINET standard Yes • PROFINET standard Yes • PROFINET high-feature Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number • of circuit breaker - usable for High Faults at 460/480 V according to UL. Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET high-feature • PROFINET high-feature • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings UL/CSA ratings u sable for High Faults at 460/480 V according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit 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 575/60	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
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Modbus TCP Yes Yes Yes Yes VUCSA ratings Manufacturer's article number of circuit breaker	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	acc. to IEC 60947-4-2: Class A Yes
• PROFIBUS Yes DuccsA ratings Present of circuit service of circuit breaker • of circuit breaker	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	acc. to IEC 60947-4-2: Class A Yes Yes
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 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for Standard 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 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 at inside-delta circuit according to UL usable for Standard Faults up to 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 High 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 at inside-delta circuit	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes
	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes
to ULSiemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes
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usable for Standard Faults at 460/480 V at inside- delta circuit according to UL.Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA usable for High Faults at 460/480 V at inside-delta circuit according to UL.Siemens type: 3VA51, max. 35 A; lq max = 65 kA usable for Standard Faults at 575/600 V according to UL.Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA usable for High Faults at 575/600 V at inside-delta circuit according to UL.Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA usable for Standard Faults at 575/600 V at inside-delta circuit according to UL.Siemens type: 3VA51, max. 35 A; lq max = 65 kA usable for Standard Faults at 575/600 V at inside- delta circuit according to UL.Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA• of the fuse usable for Standard Faults up to 575/600 V according to UL.Type: Class RK5 / K5, max. 70 A; lq = 5 kA usable for Standard Faults up to 575/600 V according to ULType: Class RK5 / K5, max. 70 A; lq = 5 kA	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
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of the fuse	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA
 usable for Standard Faults up to 575/600 V 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 Type: Class RK5 / K5, max. 70 A; Iq = 5 kA 	EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA
 usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up Type: Class J / L, max. 70 A; Iq = 100 kA Type: Class RK5 / K5, max. 70 A; Iq = 5 kA 	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit 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 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA
— usable for Standard Faults at inside-delta circuit up Type: Class RK5 / K5, max. 70 A; Iq = 5 kA	EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit 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 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
	EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside- delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V according to UL - usable for High Faults at 575/600 V at inside- delta circuit according to UL - usable for Standard Faults at 575/600 V at 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 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 High Faults up to 575/600 V according to UL	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

— usable for High Faults at inside-delta circuit up to	Type: Class J / L, max. 70 A; lq = 100 kA
575/600 V according to UL operating power [hp] for 3-phase motors	
	2 hz
at 200/208 V at 50 °C rated value	3 hp
• at 220/230 V at 50 °C rated value	5 hp
• at 460/480 V at 50 °C rated value	10 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	7.5 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	7.5 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	20 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Туре В
B10d value	1 588 000
Safety Integrity Level (SIL)	
 according to IEC 61508 	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	c
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	60 %
average diagnostic coverage level (DCavg)	90 %
diagnostics test interval by internal test function maximum	1 000 s
PFHD with high demand rate according to EN 62061	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
safe state	Open load circuit
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	
ATEX certificate of suitability	
ATEX certificate of suitability • ATEX	Yes
ATEX certificate of suitability • ATEX • IECEx	Yes Yes
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU	Yes Yes BVS 18 ATEX F 003 X
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	Yes Yes BVS 18 ATEX F 003 X 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]
ATEX certificate of suitability	Yes Yes BVS 18 ATEX F 003 X 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] 0
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1
ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 a
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 a
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 a
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval Image: Confirmatic Confirma	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 a 20 Declaration of Con- Test Certificates Marine / Shinping
ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals General Product Approval Image: Confirmatic Confirma	Yes Yes BVS 18 ATEX F 003 X 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] 0 0.008 5E-7 1/h SIL1 3 a 20 Declaration of Con- Test Certificates Marine / Shinping

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Marine / Shipping







other

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5514-3HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5514-3HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5514-3HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

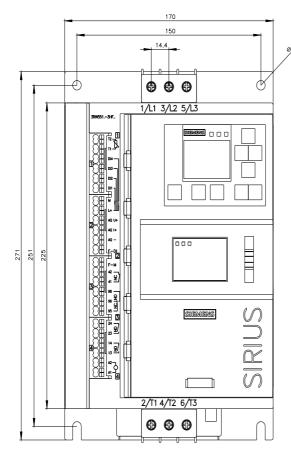
https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HF04/char

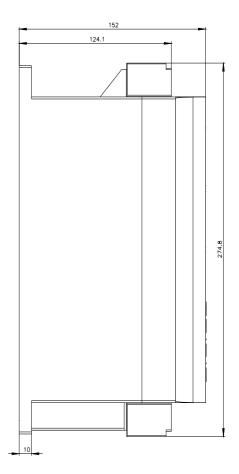
Characteristic: Installation altitude

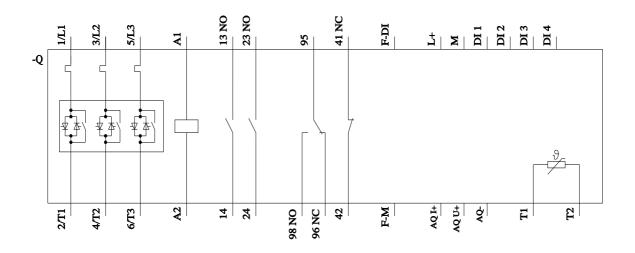
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5514-3HF04\&objecttype=14\&gridview=view1$

Simulation Tool for Soft Starters (STS)

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







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