SIEMENS

Data sheet 3RW5247-2AC14



SIRIUS soft starter 200-480 V 470 A, 110-250 V AC spring-type terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

3NE1436-2; Type of coordination 2, Iq = 65 kA

3NE3340-8; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
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
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection incide delta circuit	No You
• inside-delta circuit	Yes Yes
auto-RESETmanual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
	Very in connection with the DDOCINET Ctandard communication
 PROFlenergy 	Yes: in connection with the PROFINET Standard communication
PROFlenergy	module
PROFlenergy firmware update	
-	module
• firmware update	module Yes Yes No
firmware update removable terminal for control circuit	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 firmware update removable terminal for control circuit torque control analog output 	module Yes Yes No
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value operational current at inside-delta circuit • at 50 °C rated value • at 50 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 60 °C rated value • at 60 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value operational current at inside-delta circuit • at 50 °C rated value • at 50 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • rated value • rated value • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value operational current at inside-delta circuit • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value operating voltage • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 132 kW 250 kW
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 132 kW 250 kW

Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	200 A
 at rotary coding switch on switch position 2 	218 A
 at rotary coding switch on switch position 3 	236 A
 at rotary coding switch on switch position 4 	254 A
 at rotary coding switch on switch position 5 	272 A
 at rotary coding switch on switch position 6 	290 A
at rotary coding switch on switch position 7	308 A
at rotary coding switch on switch position 8	326 A
at rotary coding switch on switch position 9	344 A
at rotary coding switch on switch position 10 at rotary coding switch on switch position 11	362 A 380 A
at rotary coding switch on switch position 11 at rotary coding switch on switch position 12	398 A
 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 	416 A
at rotary coding switch on switch position 14	434 A
at rotary coding switch on switch position 15	452 A
at rotary coding switch on switch position 16	470 A
minimum	200 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
 for inside-delta circuit at rotary coding switch on switch position 6 	502 A
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A
 for inside-delta circuit at rotary coding switch on switch position 8 	565 A
for inside-delta circuit at rotary coding switch on switch position 9	596 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	627 A 658 A
switch position 11 for inside-delta circuit at rotary coding switch on	689 A
switch position 12 for inside-delta circuit at rotary coding switch on	721 A
switch position 13 • for inside-delta circuit at rotary coding switch on	752 A
switch position 14 • for inside-delta circuit at rotary coding switch on	783 A
switch position 15 • for inside-delta circuit at rotary coding switch on	814 A
switch position 16 • at inside-delta circuit minimum	346 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	153 W
at 50 °C after startup	137 W
 at 60 °C after startup 	126 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	7 903 W
• at 50 °C during startup	6 604 W
at 60 °C during startup	5 794 W
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	10 %
voltage at AC at 50 Hz	10 /0
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	
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency relative positive tolerance of the control supply	10 %
voltage frequency	10 76
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	100 mA
inrush current peak at application of control supply voltage	12.2 A
maximum	
duration of inrush current peak at application of control	2.2 ms
supply voltage	W. C.
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	1
number of digital outputs	3
 not parameterizable 	2
digital output version	2 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	
	with vertical mounting surface +/-90° rotatable, with vertical mounting
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
Installation/ mounting/ dimensions mounting position fastening method height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²)
Installation/ mounting/ dimensions mounting position 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 width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²)
Installation/ mounting/ dimensions mounting position 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 width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16)
Installation/ mounting/ dimensions mounting position 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 width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16)

tightening torque

• for main contacts with screw-type terminals

for auxiliary and control contacts with screw-type terminals

tightening torque [lbf·in]

• for main contacts with screw-type terminals

for auxiliary and control contacts with screw-type terminals

14 ... 24 N·m 0.8 ... 1.2 N·m

124 ... 210 lbf·in 7 ... 10.3 lbf·in

Ambient conditions

installation altitude at height above sea level maximum ambient temperature

during operation

• during storage and transport

environmental category

• during operation according to IEC 60721

• during storage according to IEC 60721

during transport according to IEC 60721

EMC emitted interference

5 000 m; Derating as of 1000 m, see catalog

-25 ... +60 °C; Please observe derating at temperatures of 40 °C or above

-40 ... +80 °C

3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4

2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)

acc. to IEC 60947-4-2: Class A

Communication/ Protocol

communication module is supported

PROFINET standard

EtherNet/IP

Modbus RTUModbus TCP

• PROFIBUS

Yes

Yes

Yes

Yes

UL/CSA ratings

manufacturer's article number

· 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL

— usable for High Faults at inside-delta circuit up to 575/600 V according to UL

Type: Class J / L, max. 1600 A; Iq = 30 kA

Type: Class J / L, max. 1200 A; Iq = 100 kA

Type: Class J / L, max. 1600 A; Iq = 30 kA

Type: Class J / L, max. 1200 A; Iq = 100 kA

operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value

• at 220/230 V at 50 °C rated value

• at 460/480 V at 50 °C rated value

at 200/208 V at inside-delta circuit at 50 °C rated

• 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

150 hp 150 hp

350 hp

250 hp

250 hp

600 hp

contact rating of auxiliary contacts according to UL

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC





Confirmation











Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5247-2AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-2AC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-2AC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

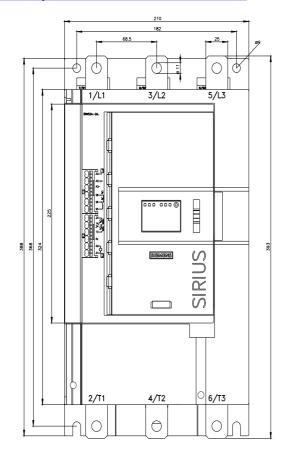
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC14/char

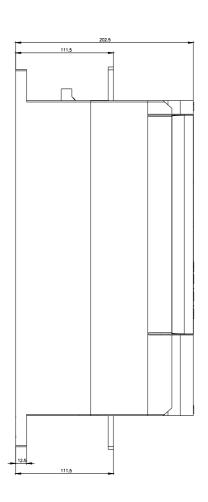
Characteristic: Installation altitude

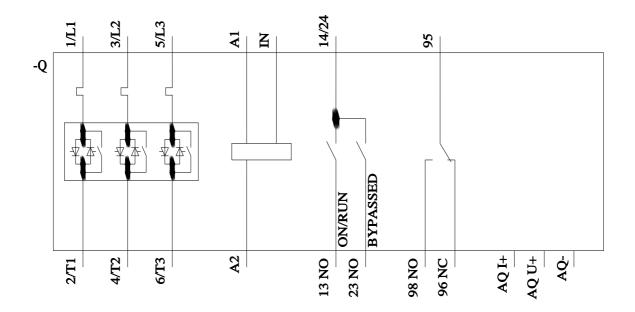
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-2AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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