SIEMENS

Data sheet 3RW5214-1AC14



SIRIUS soft starter 200-480 V 18 A, 110-250 V AC Screw 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

3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NE1802-0; Type of coordination 2, Iq = 65 kA

3NE8020-1; 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	V
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes Yes
Soft Torque adjustable current limitation	Yes
adjustable current limitationpump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
• inside-delta circuit	Yes
auto-RESET	Yes
manual 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
 PROFlenergy 	Yes; in connection with the PROFINET Standard communication
	module
• firmware update	module Yes
firmware update removable terminal for control circuit	module Yes Yes
 firmware update removable terminal for control circuit torque control 	module Yes Yes No
firmware update removable terminal for control circuit	module Yes Yes
 firmware update removable terminal for control circuit torque control 	module Yes 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 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	module Yes 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) 18 A 15.9 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) 18 A 15.9 A 13.8 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) 18 A 15.9 A 13.8 A 31.5 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 50 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 18 A 15.9 A 13.8 A 31.5 A 28 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 60 °C rated value	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 18 A 15.9 A 13.8 A 31.5 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 50 °C rated value at 50 °C rated value operating voltage	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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 at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 480 V 200 480 V -15 %
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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 480 V 200 480 V -15 % 10 %
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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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 60 °C 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 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 480 V 200 480 V -15 % 10 % -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 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 relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 4 kW 7.5 kW 7.5 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) 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %

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 	7.5 A
 at rotary coding switch on switch position 2 	8.2 A
 at rotary coding switch on switch position 3 	8.9 A
 at rotary coding switch on switch position 4 	9.6 A
at rotary coding switch on switch position 5	10.3 A
 at rotary coding switch on switch position 6 	11 A
at rotary coding switch on switch position 7	11.7 A
at rotary coding switch on switch position 8 at rotary coding switch on switch position 0.	12.4 A 13.1 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	13.1 A
at rotary coding switch on switch position 11 at rotary coding switch on switch position 11	14.5 A
at rotary coding switch on switch position 12	15.2 A
at rotary coding switch on switch position 13	15.9 A
at rotary coding switch on switch position 14	16.6 A
at rotary coding switch on switch position 15	17.3 A
at rotary coding switch on switch position 16	18 A
• minimum	7.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	13 A
 for inside-delta circuit at rotary coding switch on switch position 2 	14.2 A
 for inside-delta circuit at rotary coding switch on switch position 3 	15.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	16.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	17.8 A
 for inside-delta circuit at rotary coding switch on switch position 6 	19.1 A
 for inside-delta circuit at rotary coding switch on switch position 7 	20.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	21.5 A
for inside-delta circuit at rotary coding switch on switch position 9	22.7 A
for inside-delta circuit at rotary coding switch on switch position 10	23.9 A 25.1 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	26.3 A
switch position 12 for inside-delta circuit at rotary coding switch on	27.5 A
switch position 13 • for inside-delta circuit at rotary coding switch on	28.8 A
switch position 14 • for inside-delta circuit at rotary coding switch on	30 A
switch position 15 • for inside-delta circuit at rotary coding switch on	31.2 A
switch position 16	
at inside-delta circuit minimum	13 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	47 \\
 at 40 °C after startup at 50 °C after startup 	17 W 17 W
• at 60 °C after startup	17 W 16 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	276 W
at 50 °C during startup	241 W
at 60 °C during startup	200 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 voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	75 mA
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 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
Inpute/ Outpute	not part of scope of supply
Inputs/ Outputs	1
number of digital inputs 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
150 10 1011/ 1 1	4.0
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Installation/ mounting/ dimensions	+/- 10° rotation possible and can be tilted forward or backward on
Installation/ mounting/ dimensions mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Installation/ mounting/ dimensions mounting position fastening method height width	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 100 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 • upwards • downwards • at the side weight without packaging	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 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 weight without packaging Connections/ Terminals	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 100 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 • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg
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 • for main current circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg
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 • for main current circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 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 • for control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 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 type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main current circuit solid	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 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 type of connectable conductor 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 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)
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 type of connectable conductor 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 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)
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 type of connectable conductor 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 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)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 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)
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 type of connectable conductor 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 finely stranded with core end processing	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 100 mm 0 mm 100 mm 55 mm 5 mm 5 mm 2.1 kg screw-type terminals screw-type terminals screw-type terminals screw-type terminals 100 mm 1

tightening torque 2 ... 2.5 N·m • for main contacts with screw-type terminals · for auxiliary and control contacts with screw-type 0.8 ... 1.2 N·m terminals tightening torque [lbf·in] 18 ... 22 lbf·in • for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 7 ... 10.3 lbf·in 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 **Communication/ Protocol** communication module is supported PROFINET standard Yes EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes **UL/CSA** ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA according to UL - usable for High Faults at 460/480 V according Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 to UL - usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA51, max. 35 A; Iq max = 65 kA delta circuit according to UL usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA according to UL usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA inside-delta circuit according to UL • of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 70 A; Iq = 5 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 70 A; Iq = 100 kA according to UL Type: Class RK5 / K5, max. 70 A; Iq = 5 kA 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 Type: Class J / L, max. 70 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • 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 7.5 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 7.5 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 20 hp

60529

Safety related data

contact rating of auxiliary contacts according to UL

protection class IP on the front according to IEC

IP20

R300-B300

touch protection on the front according to IEC 60529 electromagnetic compatibility

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

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





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=3RW5214-1AC14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5214-1AC14}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5214-1AC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

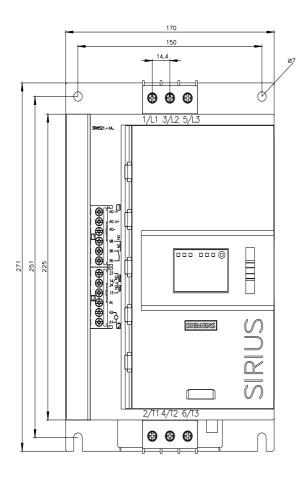
https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1AC14/char

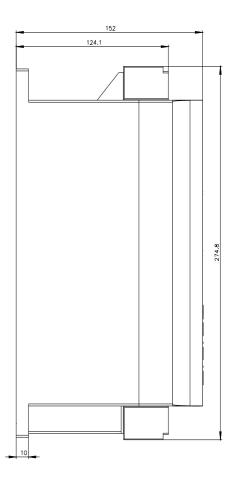
Characteristic: Installation altitude

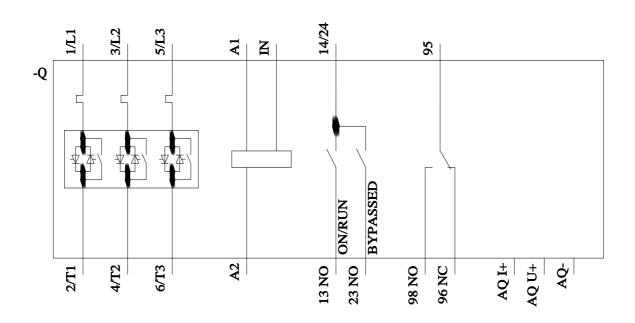
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5214-1AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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