SIEMENS

Data sheet 3RW5248-2AC15



SIRIUS soft starter 200-600 V 570 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
- 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

3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2580-6HN32-0AA0; 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

3NE1437-2; 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	000.1/
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance utilization category according to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	02/10/2010
• 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 	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
- i ito ionorgy	
-	module
• firmware update	module Yes
firmware update removable terminal for control circuit	module
• firmware update	module Yes Yes No
 firmware update removable terminal for control circuit torque control 	module Yes Yes
 firmware update removable terminal for control circuit torque control 	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 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 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 • 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) 570 A 504 A 460 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) 570 A 504 A 460 A 987 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) 570 A 504 A 460 A 987 A 873 A
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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) 570 A 504 A 460 A 987 A 873 A 796 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) 570 A 504 A 460 A 987 A 873 A 796 A 200 600 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) 570 A 504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 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) 570 A 504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 %
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• 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 • at 60 °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 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 operating power for 3-phase motors	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 570 A 504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 %
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• at 500 V at inside-delta circuit at 40 °C rated value	630 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 %
adjustable motor current	
 at rotary coding switch on switch position 1 	240 A
at rotary coding switch on switch position 2	262 A
 at rotary coding switch on switch position 3 	284 A
at rotary coding switch on switch position 4	306 A
 at rotary coding switch on switch position 5 	328 A
 at rotary coding switch on switch position 6 	350 A
 at rotary coding switch on switch position 7 	372 A
 at rotary coding switch on switch position 8 	394 A
 at rotary coding switch on switch position 9 	416 A
 at rotary coding switch on switch position 10 	438 A
 at rotary coding switch on switch position 11 	460 A
 at rotary coding switch on switch position 12 	482 A
 at rotary coding switch on switch position 13 	504 A
 at rotary coding switch on switch position 14 	526 A
 at rotary coding switch on switch position 15 	548 A
 at rotary coding switch on switch position 16 	570 A
• minimum	240 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	416 A
 for inside-delta circuit at rotary coding switch on switch position 2 	454 A
 for inside-delta circuit at rotary coding switch on switch position 3 	492 A
 for inside-delta circuit at rotary coding switch on switch position 4 	530 A
 for inside-delta circuit at rotary coding switch on switch position 5 	568 A
 for inside-delta circuit at rotary coding switch on switch position 6 	606 A
 for inside-delta circuit at rotary coding switch on switch position 7 	644 A
 for inside-delta circuit at rotary coding switch on switch position 8 	682 A
 for inside-delta circuit at rotary coding switch on switch position 9 	721 A
 for inside-delta circuit at rotary coding switch on switch position 10 	759 A
 for inside-delta circuit at rotary coding switch on switch position 11 	797 A
 for inside-delta circuit at rotary coding switch on switch position 12 	835 A
for inside-delta circuit at rotary coding switch on switch position 13	873 A
for inside-delta circuit at rotary coding switch on switch position 14	911 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on	949 A
for inside-delta circuit at rotary coding switch on switch position 16 a of inside delta circuit minimum	987 A
at inside-delta circuit minimum minimum load [%]	416 A 15 %; Relative to smallest settable le
minimum load [%] power loss [W] for rated value of the current at AC	13 /0, INEIGUIVE (U SITIGITES) SELIGIDIE TE
• at 40 °C after startup	183 W
• at 50 °C after startup	163 W
at 60 °C after startup	153 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	10 241 W
at 50 °C during startup	8 500 W
at 60 °C during startup	7 663 W
Control circuit/ Control	

type of voltage of the control supply voltage control supply voltage at AC		
* al 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value incush current peak at application of control supply voltage frequency control supply current in standby mode rated value incush current peak at application of control supply voltage frequency control supply current in standby mode rated value incush current peak at application of control supply voltage frequency design of the overvoltage protection for control circuit ### AC of the Control of Institute Con	type of voltage of the control supply voltage	AC
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage duration of instant current peak at application of control supply voltage duration of instant current peak at application of control supply voltage duration of instant current peak at application of control supply voltage duration of instant current peak at application of control supply voltage duration of instant current peak at application of control supply voltage duration of instant current peak at application of control supply voltage and su	control supply voltage at AC	
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relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency rolative positive tolerance of the control supply voltage frequency rolative positive tolerance of the control supply voltage frequency control supply current in bypase operation rated value inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit and the protection of control circuit and the protection of supply voltage frequency and the protection of supply voltage frequency and the protection of control circuit and the protection of control circuit and the protection of supply voltage frequency and the protection of control circuit and the protection of circuit and the protection of control circuit and protections of control circuit and protection of control circuit and protection of contro		10 %
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Noting current in bypass operation rated value Incursor current peak at application of control supply voltage Incursor current peak at application of control supply voltage Incursor current peak at application of control supply voltage Incursor current peak at application of control supply voltage Incursor current peak at application of control supply voltage Incursor current peak at application of control circuit Incursor current peak at application of contro	relative positive tolerance of the control supply	10 %
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duration of innush current peak at application of control supply voltage design of the overvoltage protection for control circuit design of short-circuit protection for control circuit asign of short-circuit protection for control circuit and sign of short-circuit protection for control circuit asign of short-circuit protection for control circuit and sign of short-circuit protection for control circuit asign of short-circuit protection for control circuit asign of short-circuit protection for control circuit asign of short-circuit protection for control circuit side asign of short-circuit side as AWG cables for control circuit s	holding current in bypass operation rated value	100 mA
supply voltage design of the overvoltage protection design of short-circuit protection for control circuit protes of short-circuit protection for control circuit protes of digital inputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • for control digital outputs • for control circuit solid • for control circuit for main contacts strended • for DIN cable lug for main contacts strended • for Control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing		12.2 A
design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit protection for control circuit and a gG fuse (lcu=1 kA), 6 A quick-acting fuse (lcu=1 kA), C miniature circuit breaker (lcu=600 A), C miniature circuit breaker (lcu=300 A), Is not part of digital inputs number of digital inputs number of digital outputs number of analog outputs and AC-15 at 250 V rated value at AC-15 at 250 V rated value at AC-15 at 250 V rated value at Control at 24 V rated value at Control at 24 V rated value at Control circuit solid for control circuit for main contacts finely stranded for control circuit for cortrol circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at A gG use (ucu=600 A), 2 A quick acting fuse (lcu=600 A),		2.2 ms
Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value at DC-13 at 24 V rated value to 1 A Installation mounting dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards a backwards a the side volumeration at the side wight without packaging connections/ Terminals Type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing		Varistor
Inputs / Outputs number of digital inputs	design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
number of digital inputs number of digital outputs a not parameterizable 2 digital output version number of analog outputs 4 at AC-15 at 250 V rated value 5 at AC-15 at 250 V rated value 6 at DC-13 at 24 V rated value 7 at AC-16 at 250 V rated value 7 at AC-16 at 250 V rated value 8 at DC-13 at 24 V rated value 9 at DC-13 at 24 V rated value 9 at DC-13 at 24 V rated value 9 at DC-13 at 24 V rated value 10 at DC-13 at 24 V rated value 10 at DC-13 at 24 V rated value 10 at DC-13 at 24 V rated value 11 at DC-13 at 24 V rated value 12 at DC-13 at 24 V rated value 13 at DC-13 at 24 V rated value 14 at DC-15 at 250 V rated value 15 at DC-15 at 250 V rated value 16 at DC-15 at 250 V rated value 17 at DC-15 at 250 V rated value 18 at DC-15 at 26 V rated value 19 at DC-15 at 26 V rated value 19 at DC-15 at 26 V rated value 10 at DC-15 at 26 V rated value 10 at DC-15 at 26 V rated value 10 at 20 mm 10 at the side 10 at the side 10 mm 10 at the side 10 at 20 a		not part of scope of supply
number of digital outputs		
Installation depth (and the side with side-by-side mounting) In omm In of main (and spacing) In omm In of analog outputs In at AC-15 at 250 V rated value In at DC-13 at 24 V rated value Installation/mounting/dimensions In outling position In outling with side-by-side mounting In outling spacing with side-by-side mounting In outling outputs In outling outputs In outling outputs In outling outputs In outling surface +/-90° rotatable, with vertical mounting surface +/-90° ro		
digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastening method height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting • forwards • backwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing	number of digital outputs	
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing says mm width depth 203 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • downwards • at the side woight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit solid • for DIN cable lug for main contacts stranded • for control circuit solid • for control circuit solid • for control circuit sinely stranded type of connectable conductor cross-sections • for control circuit sinely stranded • for control circuit sinely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit sinely stranded at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing	 not parameterizable 	2
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position surface +/-22.5° tiltable to the front and back screw fixing 393 mm with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing 393 mm 210 mm depth 203 mm required spacing with side-by-side mounting • forwards • backwards • upwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts finely 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 • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing	digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
at AC-15 at 250 V rated value at DC-13 at 24 V rated value bustallation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounti	number of analog outputs	1
• at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing surface +/- 22.5° tiltable to the front and back screw fixing 393 mm width depth 203 mm required spacing with side-by-side mounting • forwards • lackwards • lackwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit stranded with core end processing	switching capacity current of the relay outputs	
mounting position mounting position fastening method height width depth equired spacing with side-by-side mounting • forwards • backwards • downwards • downwards • at the side weight without packaging • for control circuit without of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° titlable to the front and back screw fixing 10 mm 200 m	 at AC-15 at 250 V rated value 	3 A
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing say 333 mm width depth 210 mm 203 mm required spacing with side-by-side mounting forwards backwards backwards downwards downwards downwards tit he side streep of electrical connection for main current circuit for control circuit width of connectable conductor cross-sections for control circuit sping for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-92° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing surface +/-92° rotatable, with vertical mounting surface +/-92° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing surface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the front and back screw fixing supface +/-22.5° tiltable to the fixing supface for supface fixing supface for supface fixing supface fixing fixing supface fixing supface f	 at DC-13 at 24 V rated value 	1 A
surface +/- 22.5° tiltable to the front and back fastening method height width depth 200 mm fequired spacing with side-by-side mounting forwards backwards backwards downwards downwards downwards for at the side for all the side for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing sidenth for mining surrent circuit finely stranded with core end processing at the Width of connection control circuit finely stranded with core end processing at a WG cables for control circuit finely stranded with core end processing at a WG cables for control circuit finely stranded with core end processing at a WG cables for control circuit finely stranded with core end processing at a WG cables for control circuit finely stranded with core end processing	Installation/ mounting/ dimensions	
fastening method height width depth 210 mm depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing		with vertical mounting surface +/-90° rotatable, with vertical mounting
height width 210 mm 203 mm 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 control circuit spring-loaded terminals type of connectable conductor cross-sections • for control circuit spring-loaded terminals 45 mm 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 solid • for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing		surface +/- 22.5° tiltable to the front and back
width depth 203 mm 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 connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing	fastening method	screw fixing
depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • 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 control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing	height	393 mm
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • for wand space of wards of the side weight without packaging 100 mm 100 mm 100 mm 100 mm 100 mm 100	width	210 mm
 forwards backwards upwards downwards downwards at the side mm weight without packaging type of electrical connection for main current circuit for control circuit for connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 	depth	203 mm
 backwards upwards downwards at the side 5 mm weight without packaging 10.6 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit 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 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 core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 	required spacing with side-by-side mounting	
 upwards downwards at the side 5 mm weight without packaging 10.6 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded for control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 2x (24 16) 2x (24 16) 2x (24 16) 	forwards	10 mm
of downwards	backwards	0 mm
 at the side weight without packaging 10.6 kg 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 core end processing 2 mm 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) 	• upwards	100 mm
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit busbar connection • for control circuit spring-loaded terminals width of connectable conductor cross-sections • for DIN cable lug for main contacts stranded 2x (50 240 mm²) • for DIN cable lug for main contacts finely stranded 2x (70 240 mm²) type of connectable conductor cross-sections • for control circuit solid 2x (0.25 1.5 mm²) • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing	downwards	75 mm
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 DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid 2x (0.25 1.5 mm²) • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing	• at the side	5 mm
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 • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing		10.6 kg
 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 core end processing at AWG cables for control circuit finely stranded with core end processing 	weight without packaging	10.0 kg
 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 core end processing at AWG cables for control circuit finely stranded with core end processing 		10.0 kg
 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 core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 	Connections/ Terminals	10.0 kg
width of connectable maximum type of connectable conductor cross-sections of or DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections of or control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing	Connections/ Terminals type of electrical connection	
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded for 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 core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 	Connections/ Terminals type of electrical connection • for main current circuit	busbar connection
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded for 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 core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing 	Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	busbar connection spring-loaded terminals
 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 core end processing at AWG cables for control circuit finely stranded with core end processing 	type of electrical connection	busbar connection spring-loaded terminals
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 • at AWG cables for control circuit finely stranded with core end processing	type of electrical connection	busbar connection spring-loaded terminals 45 mm
 for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) 2x (24 16)	type of electrical connection	busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²)
 for control circuit finely stranded with core end processing at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16)	type of electrical connection	busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²)
processing ■ at AWG cables for control circuit solid ■ at AWG cables for control circuit finely stranded with core end processing 2x (24 16) 2x (24 16)	type of electrical connection	busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²)
 at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with core end processing 2x (24 16) 2x (24 16) 	type of electrical connection	busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²)
• at AWG cables for control circuit finely stranded with core end processing	type of electrical connection	busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²)
core end processing	type of electrical connection	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)
wire length	type of electrical connection	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)
	type of electrical connection	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)

between soft starter and motor maximum	800 m	
at the digital inputs at AC maximum	100 m	
tightening torque	44 04 N ···	
for main contacts with screw-type terminals for auxiliary and control contacts with corew type	14 24 N·m 0.8 1.2 N·m	
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·III	
tightening torque [lbf·in]		
for main contacts with screw-type terminals	124 210 lbf·in	
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in	
terminals		
Ambient conditions		
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog	
ambient temperature		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
 during storage and transport 	-40 +80 °C	
environmental category		
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
EMC emitted interference	acc. to IEC 60947-4-2: Class A	
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 the fuse	T 01 1/1 4000 A 1 00 1 A	
usable for Standard Faults up to 575/600 V according to UL	Type: Class J / L, max. 1600 A; Iq = 30 kA	
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA	
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA	
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA	
operating power [hp] for 3-phase motors	450.1	
• at 200/208 V at 50 °C rated value	150 hp	
• at 220/230 V at 50 °C rated value	200 hp	
• at 460/480 V at 50 °C rated value	400 hp	
 at 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated 	500 hp 300 hp	
at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated	350 hp	
value		
at 460/480 V at inside-delta circuit at 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the left in the first of 50 °C rated value 4.575/200 V 4.5 in the fir	750 hp	
at 575/600 V at inside-delta circuit at 50 °C rated value	950 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover	
electromagnetic compatibility	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

othei



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=3RW5248-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5248-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5248-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5248-2AC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

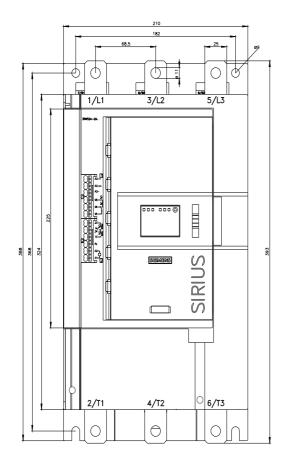
https://support.industry.siemens.com/cs/ww/en/ps/3RW5248-2AC15/char

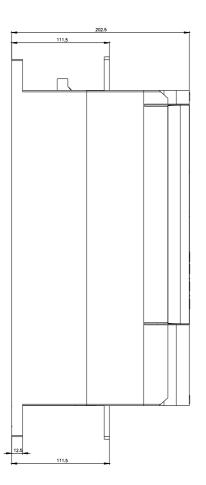
Characteristic: Installation altitude

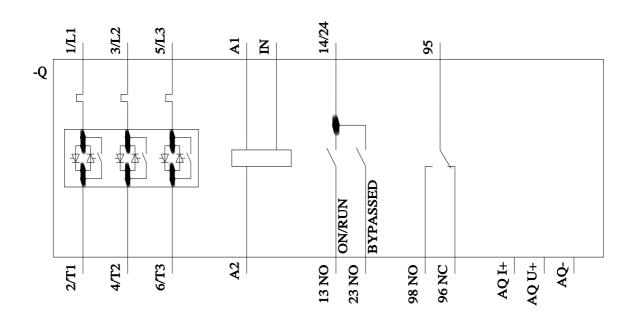
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5248-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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