



SIRIUS soft starter 200-480 V 38 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](#)

[3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10](#)

[3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10](#)

[3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10](#)

[3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10](#)

[3NA3824-6; Type of coordination 1, Iq = 65 kA](#)

[3NA3824-6; Type of coordination 1, Iq = 65 kA](#)

[3NE1820-0; Type of coordination 2, Iq = 65 kA](#)

[3NE8024-1; Type of coordination 2, Iq = 65 kA](#)

General technical data

starting voltage [%]

30 ... 100 %

stopping voltage [%]

50 %; non-adjustable

start-up ramp time of soft starter

0 ... 20 s

current limiting value [%] adjustable

130 ... 700 %

certificate of suitability

- CE marking
- UL approval
- CSA approval

Yes

Yes

Yes

product component

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

No

Yes

Yes

product feature integrated bypass contact system

Yes

number of controlled phases

3

trip class

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

buffering time in the event of power failure

• for main current circuit • for control circuit	100 ms
insulation voltage rated value	100 ms
degree of pollution	600 V
impulse voltage rated value	3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	6 kV
service factor	1 600 V
surge voltage resistance rated value	1
maximum permissible voltage for safe isolation	6 kV
• 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	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
• PROFenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
• removable terminal for control circuit	Yes
• torque control	No
• analog output	Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI)

Power Electronics

operational current	
• at 40 °C rated value	38 A
• at 50 °C rated value	33.5 A
• at 60 °C rated value	30.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	65.8 A
• at 50 °C rated value	58 A
• at 60 °C rated value	52.8 A
operating voltage	
• rated value	200 ... 480 V
• at inside-delta circuit rated value	200 ... 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	11 kW
• at 230 V at inside-delta circuit at 40 °C rated value	18.5 kW
• at 400 V at 40 °C rated value	18.5 kW
• at 400 V at inside-delta circuit at 40 °C rated value	30 kW
Operating frequency 1 rated value	50 Hz

Operating frequency 2 rated value**relative negative tolerance of the operating frequency****relative positive tolerance of the operating frequency****adjustable motor current**

• at rotary coding switch on switch position 1	15.5 A
• at rotary coding switch on switch position 2	17 A
• at rotary coding switch on switch position 3	18.5 A
• at rotary coding switch on switch position 4	20 A
• at rotary coding switch on switch position 5	21.5 A
• at rotary coding switch on switch position 6	23 A
• at rotary coding switch on switch position 7	24.5 A
• at rotary coding switch on switch position 8	26 A
• at rotary coding switch on switch position 9	27.5 A
• at rotary coding switch on switch position 10	29 A
• at rotary coding switch on switch position 11	30.5 A
• at rotary coding switch on switch position 12	32 A
• at rotary coding switch on switch position 13	33.5 A
• at rotary coding switch on switch position 14	35 A
• at rotary coding switch on switch position 15	36.5 A
• at rotary coding switch on switch position 16	38 A
• minimum	15.5 A

adjustable motor current

• for inside-delta circuit at rotary coding switch on switch position 1	26.8 A
• for inside-delta circuit at rotary coding switch on switch position 2	29.4 A
• for inside-delta circuit at rotary coding switch on switch position 3	32 A
• for inside-delta circuit at rotary coding switch on switch position 4	34.6 A
• for inside-delta circuit at rotary coding switch on switch position 5	37.2 A
• for inside-delta circuit at rotary coding switch on switch position 6	39.8 A
• for inside-delta circuit at rotary coding switch on switch position 7	42.4 A
• for inside-delta circuit at rotary coding switch on switch position 8	45 A
• for inside-delta circuit at rotary coding switch on switch position 9	47.6 A
• for inside-delta circuit at rotary coding switch on switch position 10	50.2 A
• for inside-delta circuit at rotary coding switch on switch position 11	52.8 A
• for inside-delta circuit at rotary coding switch on switch position 12	55.4 A
• for inside-delta circuit at rotary coding switch on switch position 13	58 A
• for inside-delta circuit at rotary coding switch on switch position 14	60.6 A
• for inside-delta circuit at rotary coding switch on switch position 15	63.2 A
• for inside-delta circuit at rotary coding switch on switch position 16	65.8 A
• at inside-delta circuit minimum	26.8 A

minimum load [%]15 %; Relative to smallest settable I_e**power loss [W] for rated value of the current at AC**

• at 40 °C after startup	23 W
• at 50 °C after startup	22 W
• at 60 °C after startup	21 W

power loss [W] at AC at current limitation 350 %

• at 40 °C during startup	628 W
• at 50 °C during startup	526 W
• at 60 °C during startup	464 W

Control circuit/ Control

type of voltage of the control supply voltage
control supply voltage at AC

AC

• at 50 Hz • at 60 Hz	110 ... 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	110 ... 250 V
relative positive tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	10 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	-15 %
control supply voltage frequency	10 %
relative negative tolerance of the control supply voltage frequency	50 ... 60 Hz
relative positive tolerance of the control supply voltage frequency	-10 %
control supply current in standby mode rated value	10 %
holding current in bypass operation rated value	30 mA
locked-rotor current at close of bypass contact maximum	75 mA
inrush current peak at application of control supply voltage maximum	0.17 A
duration of inrush current peak at application of control supply voltage	12.2 A
design of the overvoltage protection	2.2 ms
design of short-circuit protection for control circuit	Varistor
	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 • at DC-13 at 24 V rated value	3 A
	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
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards • backwards • upwards • downwards • at the side	10 mm
	0 mm
	100 mm
	75 mm
	5 mm
weight without packaging	2.3 kg

Connections/ Terminals

type of electrical connection	screw-type terminals
• for main current circuit • for control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
• for main contacts — solid — finely stranded with core end processing • at AWG cables for main current circuit solid	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)
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	2x (0.25 ... 1.5 mm²)
	2x (0.25 ... 1.5 mm²)
	2x (24 ... 16)
	2x (24 ... 16)

wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 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	800 m 100 m 2 ... 2.5 N·m 0.8 ... 1.2 N·m 18 ... 22 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 RTU • Modbus TCP • PROFIBUS	Yes Yes Yes Yes Yes
UL/CSA ratings	
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for 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 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 value • 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 value contact rating of auxiliary contacts according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA Type: Class RK5 / K5, max. 150 A; Iq = 5 kA Type: Class J / L, max. 150 A; Iq = 100 kA Type: Class RK5 / K5, max. 150 A; Iq = 5 kA Type: Class J / L, max. 150 A; Iq = 100 kA 10 hp 10 hp 20 hp 15 hp 20 hp 40 hp R300-B300

Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	in accordance with IEC 60947-4-2

Certificates/ approvals	
General Product Approval	EMC



[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[Type Test Certificates/Test Report](#)



ABS



BUREAU
VERITAS



LRS

Marine / Shipping	other
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PRS



DNV-GL

[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=3RW5217-3AC14>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-3AC14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-3AC14>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5217-3AC14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

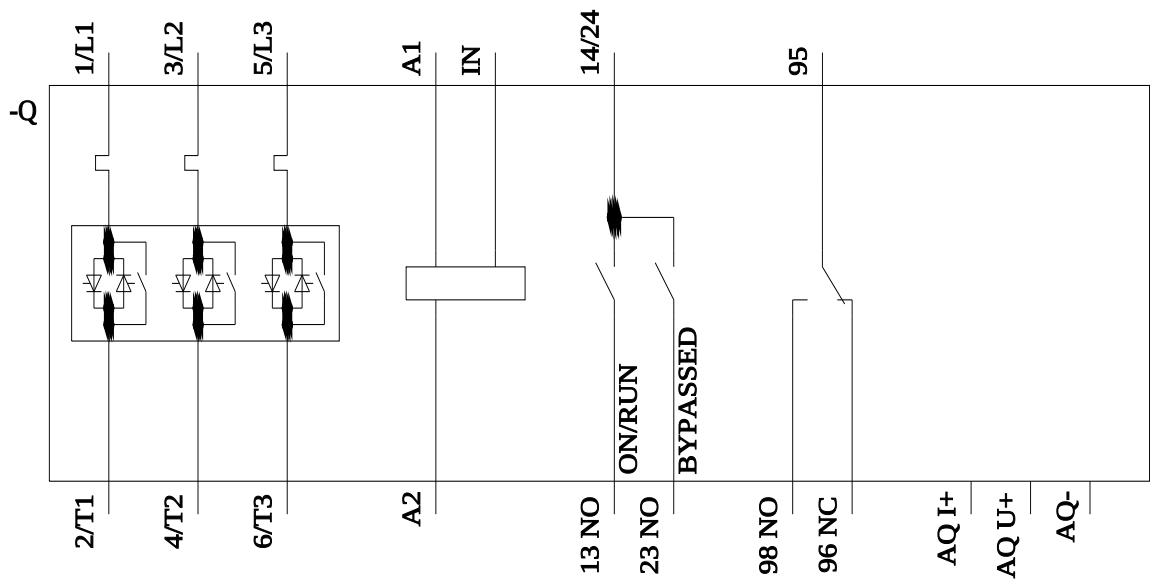
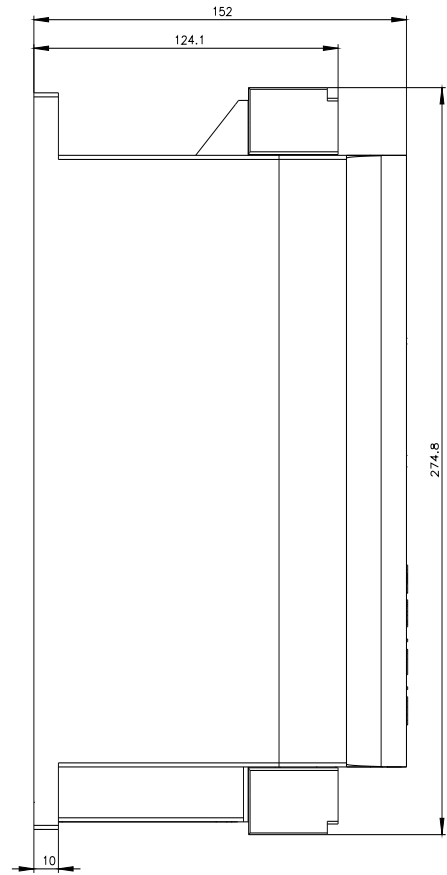
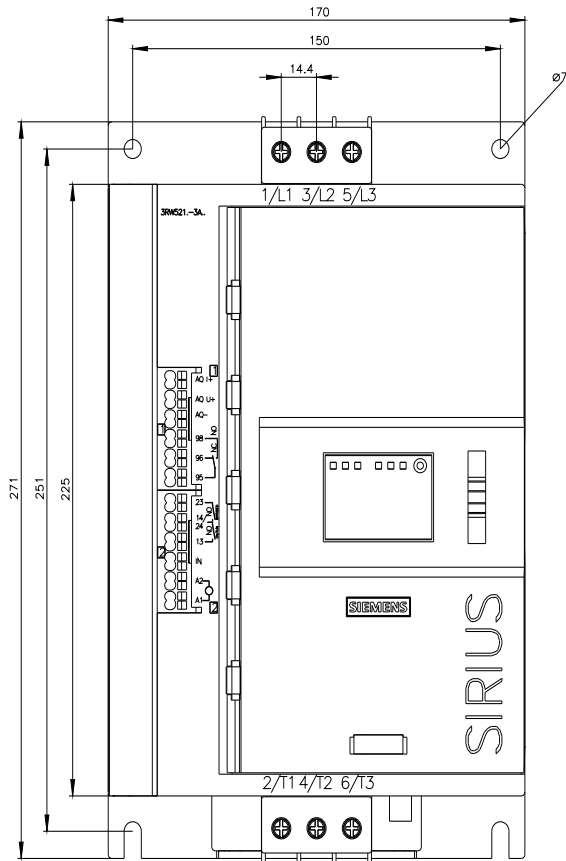
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-3AC14/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-3AC14&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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



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