SIEMENS

product brand name

Data sheet 3RW5215-1AC14

SIRIUS



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC Screw terminals Analog output

product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6: Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1817-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8021-1; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

number of controlled phases	2
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	400
	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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
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
PROFlenergy	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	25 A
• at 50 °C rated value	22 A
• at 60 °C rated value	20 A
operational current at inside-delta circuit	
at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
• at 60 °C rated value	33.9 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	15 % -15 %
inside-delta circuit	

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 	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
 at 400 V at 40 °C rated value 	11 kW
• at 400 V at inside-delta circuit at 40 °C rated value	18.5 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 	11.5 A
 at rotary coding switch on switch position 2 	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
 at rotary coding switch on switch position 4 	14.2 A
 at rotary coding switch on switch position 5 	15.1 A
 at rotary coding switch on switch position 6 	16 A
 at rotary coding switch on switch position 7 	16.9 A
at rotary coding switch on switch position 8	17.8 A
 at rotary coding switch on switch position 9 	18.7 A
at rotary coding switch on switch position 10	19.6 A
at rotary coding switch on switch position 11	20.5 A
at rotary coding switch on switch position 12	21.4 A
 at rotary coding switch on switch position 13 	22.3 A
at rotary coding switch on switch position 14	23.2 A
at rotary coding switch on switch position 15	24.1 A
at rotary coding switch on switch position 16	25 A
• minimum	11.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	19.9 A
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
 for inside-delta circuit at rotary coding switch on switch position 4 	24.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 	29.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	30.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	32.4 A
for inside-delta circuit at rotary coding switch on switch position 10	33.9 A
for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on	35.5 A
for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on	37.1 A
for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on	38.6 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	40.2 A 41.7 A
• for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on	43.3 A
switch position 16	

minimum Lead [%] power loss [W] for rated value of the current at AC = 4.40 °C after startup = 19 W = 4.60 °C after startup = 19 W = 4.60 °C after startup = 376 W = 4.40 °C during startup = 376 W = 4.60 °C after startup = 278 W Power loss [W] at AC at current limitation 350 % = 4.60 °C after startup = 278 W Control cliquits gestrup = 278 W Control cliquits (Control Supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage at AC = 4.50 °C during startup = 278 W Control supply voltage frequency = 10 % Collaboration of supply current in standby mode rated value holding current in bypass operation rated value 0.50 °C during startup = 278 °C dur	at inside-delta circuit minimum	19.9 A
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ont parameterizable digital output version number of analog outputs switching capacity current of the relay outputs o at AC-15 at 250 V rated value o at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position #/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method height width 170 mm depth required spacing with side-by-side mounting • forwards • backwards 2 normally-open contacts (NO) / 1 changeover contact (CO) 1	number of inputs for thermistor connection	0
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 Installation/ mounting/ dimensions mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth required spacing with side-by-side mounting • forwards • backwards 1 mormally-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 changeover contact (CO) 1 manually-open contacts (NO) / 1 manually (NO) / 1 manual	number of digital outputs	3
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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth required spacing with side-by-side mounting forwards backwards 10 mm 0 mm		2
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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth required spacing with side-by-side mounting forwards backwards 10 mm 0 mm	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 1 A Installation/ mounting/ dimensions mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth required spacing with side-by-side mounting forwards backwards 10 mm 0 mm 0 mm		
 ◆ at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height width 170 mm depth required spacing with side-by-side mounting • forwards • backwards 10 mm 0 mm 	switching capacity current of the relay outputs	
Installation/ mounting/ dimensions mounting position	• at AC-15 at 250 V rated value	3 A
mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting • forwards • backwards 10 mm 0 mm	• at DC-13 at 24 V rated value	1 A
vertical mounting surface fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting • forwards • backwards 10 mm 0 mm	Installation/ mounting/ dimensions	
height275 mmwidth170 mmdepth152 mmrequired spacing with side-by-side mounting0 mm• forwards10 mm• backwards0 mm	mounting position	
width 170 mm depth 152 mm required spacing with side-by-side mounting • forwards 10 mm • backwards 0 mm	fastening method	screw fixing
depth 152 mm required spacing with side-by-side mounting 0 mm backwards 0 mm	height	275 mm
required spacing with side-by-side mounting • forwards • backwards 10 mm 0 mm	width	170 mm
 forwards backwards 10 mm 0 mm 	depth	152 mm
• backwards 0 mm	required spacing with side-by-side mounting	
	• forwards	10 mm
• upwards 100 mm	backwards	0 mm
	• upwards	100 mm

• downwards	75 mm
at the side	5 mm
weight without packaging	2.1 kg
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
for control circuit	screw-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at AC maximum	100 m
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	40 00 11 6
for main contacts with screw-type terminals	18 22 lbf·in
 for auxiliary and control contacts with screw-type terminals 	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 acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
adding operation door to 120 co. 2.	mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport acc. 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 according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA

according to UL

- usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

- usable for Standard Faults up to 575/600 V 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

Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA

Type: Class RK5 / K5, max. 100 A; Iq = 5 kA

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

Type: Class RK5 / K5, max. 100 A; Iq = 5 kA

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

operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value

• at 460/480 V at 50 °C rated value

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

• at 220/230 V at inside-delta circuit at 50 °C rated value

• at 460/480 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

5 hp

7.5 hp

15 hp

10 hp

10 hp

25 hp

R300-B300

Safety related data

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

electromagnetic compatibility

IP20

finger-safe, for vertical contact from the front

in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











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=3RW5215-1AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-1AC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1AC14&lang=en

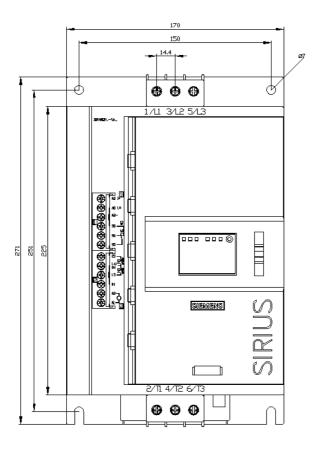
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC14/char

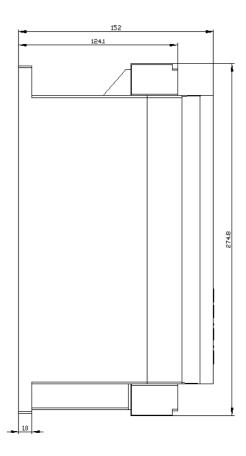
Characteristic: Installation altitude

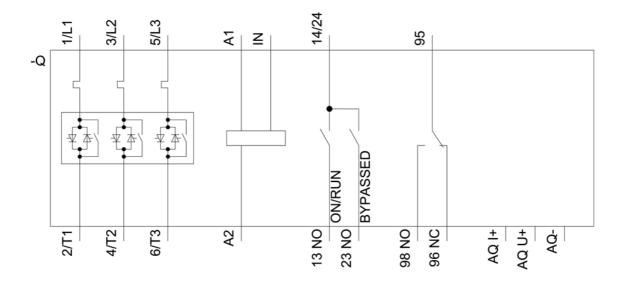
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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