SIEMENS

product brand name

Data sheet 3RW5247-2AC15

SIRIUS



SIRIUS soft starter 200-600 V 470 A, 110-250 V AC spring-type 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 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1436-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3340-8; 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-StandardHMI-High Feature

product feature integrated bypass contact system

Yes

Yes

Yes

number of controlled phases	
trip class	
_ ·	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	400
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 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
The following y	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	470 A
• at 50 °C rated value	416 A
at 60 °C rated value	380 A
operational current at inside-delta circuit	
• at 40 °C rated value	814 A
at 50 °C rated value	721 A
at 60 °C rated value	658 A
operating voltage	
• rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	200 000 V
relative negative tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	_ 10 % -15 %
inside-delta circuit	10 /0

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 	132 kW
• at 230 V at inside-delta circuit at 40 °C rated value	250 kW
• at 400 V at 40 °C rated value	250 kW
• at 400 V at inside-delta circuit at 40 °C rated value	400 kW
• at 500 V at 40 °C rated value	315 kW
• at 500 V at inside-delta circuit at 40 °C rated value	500 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 	200 A
 at rotary coding switch on switch position 2 	218 A
 at rotary coding switch on switch position 3 	236 A
 at rotary coding switch on switch position 4 	254 A
at rotary coding switch on switch position 5	272 A
at rotary coding switch on switch position 6	290 A
at rotary coding switch on switch position 7	308 A
 at rotary coding switch on switch position 8 	326 A
 at rotary coding switch on switch position 9 	344 A
 at rotary coding switch on switch position 10 	362 A
at rotary coding switch on switch position 11	380 A
 at rotary coding switch on switch position 12 	398 A
 at rotary coding switch on switch position 13 	416 A
 at rotary coding switch on switch position 14 	434 A
 at rotary coding switch on switch position 15 	452 A
 at rotary coding switch on switch position 16 	470 A
• minimum	200 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
for inside-delta circuit at rotary coding switch on switch position 6	502 A
for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on switch position.	533 A
for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on	565 A
for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on	596 A 627 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	658 A
switch position 11 • for inside-delta circuit at rotary coding switch on	689 A
switch position 12 • for inside-delta circuit at rotary coding switch on	721 A
switch position 13 • for inside-delta circuit at rotary coding switch on	752 A
switch position 14for inside-delta circuit at rotary coding switch on	783 A
switch position 15	

• for inside-delta circuit at rotary coding switch on switch position 16 • at Inside-delta circuit minimum minimum load [3] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after st	
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switching capacity current of the relay outputs • at AC-15 at 250 V rated value 3 A	
• at AC-15 at 250 V rated value 3 A	
at DC-13 at 24 V rated value 1 A	
Installation/ mounting/ dimensions	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mount	ınting
fastening method screw fixing	
height 393 mm	
width 210 mm	
depth 203 mm	
· · · · · · · · · · · · · · · · · · ·	
required spacing with side-by-side mounting	
• forwards 10 mm	

backwards upwards downwards downwards at the side side indicates the side indicat	
downwards	
e at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid 2x (50 240 mm²) 2x (70 240 mm²) type of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	
weight without packaging 9.9 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connectable conductor cross-sections 45 mm 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 6 or control circuit solid 2x (0.25 1.5 mm²) for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) at AWG cables for control circuit solid 2x (24 16) at AWG cables for control circuit finely stranded with core end processing 2x (24 16) wire length between soft starter and motor maximum 800 m at the digital inputs at AC maximum 100 m tightening torque for auxiliary and contacts with screw-type terminals 14 24 N·m of or auxiliary and control contacts with screw-type terminals 124 210 lbf·in tightening torque [lbf·in] 100 m main contacts with screw-type terminals 100 m main contacts with screw-type terminals tightening torque [lbf·in] 100 m main contacts with screw-type terminals 100 m main	
type of electrical connection • for main current circuit • for control circuit • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely 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 wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type 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 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 finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	
• for main current circuit • for control circuit • for 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 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 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 • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions	
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• 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 Ambient conditions 0.8 1.2 N·m 124 210 lbf·in 7 10.3 lbf·in	
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• for auxiliary and control contacts with screw-type terminals Ambient conditions 7 10.3 lbf-in	
terminals Ambient conditions	
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 of 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 salmist), 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 not get inside the devices), 1M4 	must
• 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 the fuse	
— usable for Standard Faults up to 575/600 V Type: Class J / L, max. 1600 A; Iq = 30 kA according to UL	
— usable for High Faults up to 575/600 V Type: Class J / L, max. 1200 A; Iq = 100 kA according to UL	
— usable for Standard Faults at inside-delta Type: Class J / L, max. 1600 A; Iq = 30 kA circuit up to 575/600 V according to UL	

 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	150 hp
 at 220/230 V at 50 °C rated value 	150 hp
 at 460/480 V at 50 °C rated value 	350 hp
 at 575/600 V at 50 °C rated value 	450 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	250 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	250 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	600 hp
 at 575/600 V at inside-delta circuit at 50 °C rated value 	800 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. 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

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Confirmation

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5247-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-2AC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

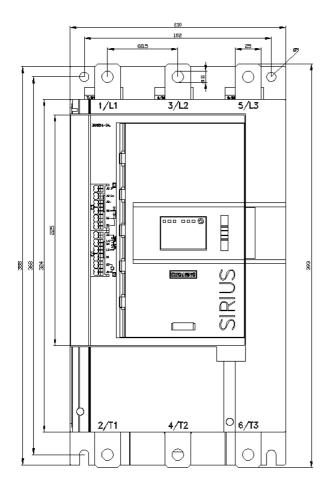
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC15/char

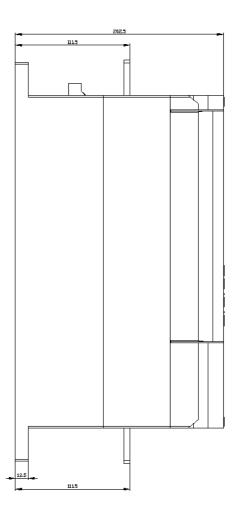
Characteristic: Installation altitude

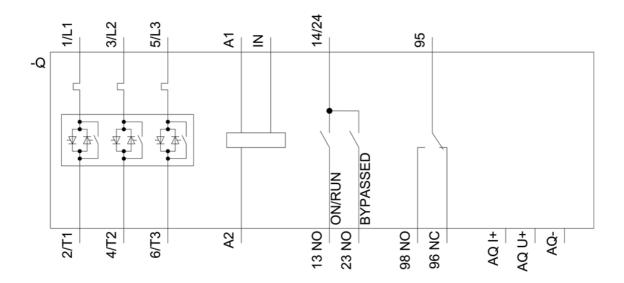
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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