SIEMENS

Data sheet 3RW5247-6AC15



SIRIUS soft starter 200-600 V 470 A, 110-250 V AC Screw terminals Analog output

product brand name	SIRIUS	
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 %; non-adjustable
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	
 HMI-High Feature 	No
 is supported HMI-Standard 	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3

buffering time in the event of power failure for main current circuit 100 ms	trin class	CLASS 10A (default) / 10E / 20E; and to IEC 60047 4.2	
	trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2	
source of pollution of the process of the pr		100 mg	
Insulation voltage rated value Geover of poliution Si acc. to IEC 60947-4-2			
Impulse voltage are ted value 8 kV 8 k			
Impulse voltage rated value	-		
service factor surge voltage resistance rated value we between main and auxiliary circuit shock resistance vibration resistanc			
Surge voltage resistance rated value 6 kV			
Sebeveen main and auxillary circuit 600 V 5 g/11 ms, from 12 g/11 ms with potential contact lifting vibration 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 15 mm		6 KV	
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 AG S3a reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Product function • ramp-down (soft starting) Yes • soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes • motor overload protection Yes • manual RESET Yes • remote reset Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • carro (opbook Yes; Only in conjunction with special accessories • via software parameterizable Yes • firmware update Yes • formware update Yes • formware update Yes • connection sit Yes Power Electronics Yes operational c		000.1/	
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Substance Prohibitance (Date) 02/15/2018 product function Yes • (amp-up (soft starting) Yes • Soft Torque Yes • Soft Torque Yes • Dump ramp down Yes • Intrinsic device protection Yes • motor overload protection Yes • motor overload protection Yes • matual 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 • orange parameterizable No • via software parameterizable Yes • No software parameterizable Yes • RPOFlenergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes • forque control No • torque control No • torque control No • torque control No • torque control No			
Product function Figure		- 1	
• ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • pump ramp down • remotor overload protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • remote reset • remote reset • communication function • operating measured value display • remor logbook • via software parameterizable • via software configurable • PROFlenergy • firmware update • removable terminal for control circuit • torque control • analog output • for rated value • at 60 °C rated valu		02/15/2018	
• ramp-down (soft stop) • Soft Torque • Soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • motor overload protection • revaluation of thermistor motor protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • remote reset • communication function • operating measured value display • correct policy of the control supply voltage • error togbook • via software parameterizable • via software parameterizable • ifirmware update • removable terminal for control circuit • analog output • firmware update • removable terminal for control circuit • analog output • and of "Crated value • at 60 "C rated val	•	V	
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relative positive tolerance of the operating voltage at inside-delta circuit 10 %	relative positive tolerance of the operating voltage	10 %	
inside-delta circuit		-15 %	
operating power for 3-phase motors	relative positive tolerance of the operating voltage at	10 %	
	operating power for 3-phase motors		

-t 000 V -t 40 °Ot- dl	400 1344
• 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 	533 A
for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at retery coding switch on	565 A
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for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on	
for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on	752 A
 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on 	783 A 814 A
switch position 16 • at inside-delta circuit minimum	346 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
power ross [w] for rated value of the current at AC	

• at 40 °C after startup	153 W	
 at 50 °C after startup 	137 W	
at 60 °C after startup	126 W	
power loss [W] at AC at current limitation 350 %		
 at 40 °C during startup 	7 903 W	
 at 50 °C during startup 	6 604 W	
 at 60 °C during startup 	5 794 W	
Control circuit/ Control		
type of voltage of the control supply voltage	AC	
control supply voltage at AC		
● at 50 Hz	110 250 V	
● at 60 Hz	110 250 V	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %	
relative positive tolerance of the control supply	10 %	
voltage at AC at 50 Hz		
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 % -	
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %	
control supply voltage frequency	50 60 Hz	
relative negative tolerance of the control supply voltage frequency	-10 %	
relative positive tolerance of the control supply voltage frequency	10 %	
control supply current in standby mode rated value	30 mA	
holding current in bypass operation rated value	100 mA	
locked-rotor current at close of bypass contact maximum	2.2 A	
inrush current peak at application of control supply voltage maximum	12.2 A	
duration of inrush current peak at application of control supply voltage	2.2 ms	
design of the overvoltage protection	Varistor	
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is 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	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 mounting surface +/- 22.5° tiltable to the front and back	
fastening method	screw fixing	
height	393 mm	
width	210 mm	
depth	203 mm	
required spacing with side-by-side mounting		
• forwards	10 mm	
• backwards	0 mm	
• upwards	100 mm	
downwards	75 mm	
• at the side	5 mm	
weight without packaging	9.9 kg	
Connections/ Terminals		
type of electrical connection		
AL		

• for main current circuit	busbar connection	
• for control circuit	screw-type terminals	
width of connection bar maximum	45 mm	
type 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	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
for control circuit finely stranded with core end	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
processing	(*** , (***)	
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 	14 24 N·m	
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m	
terminals		
tightening torque [lbf·in]		
 for main contacts with screw-type terminals 	124 210 lbf·in	
for auxiliary and control contacts with screw-type terminals.	7 10.3 lbf·in	
terminals Ambient conditions		
Ambient conditions	5 000 m; Doroting as of 1000 m, and astology	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog	
ambient temperature	25 LCO °C: Plages observe denoting at temperatures of 40 °C or	
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	
adming operation according to 120 co. 2.	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		
 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		
 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	

value			
 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 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

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=3RW5247-6AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-6AC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-6AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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