SIEMENS

Data sheet

3RW5247-2AC05



SIRIUS soft starter 200-600 V 470 A, 24 V AC/DC spring-type 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 	<u>3RW5980-0HS00</u>				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>				
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>				
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>				
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>				
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>				
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>				
 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				
ullet 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 	<u>3NE1436-2: Type of coordination 2. Iq = 65 kA</u>				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>				
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				
product reactive integrated bypass contact system					

trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2				
buffering time in the event of power failure	0LA00 TVA (Uciauli) / TVE / ZVE, att. tv TEC 00847-4-2				
for main current circuit	100 ms				
for control circuit					
insulation voltage rated value	100 ms				
degree of pollution	600 V 3, acc. to IEC 60947-4-2				
impulse voltage rated value					
blocking voltage of the thyristor maximum	6 kV 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	$\frac{600 \text{ V}}{15 \text{ g}/11 \text{ ms}}$ from 12 g / 11 ms with notential contact lifting				
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting 15 mm to 6 Hz; 2g to 500 Hz				
utilization category according to IEC 60947-4-2					
reference code according to IEC 81346-2	AC 53a				
Substance Prohibitance (Date)	Q 02/15/2018				
	-				
product function	Yes				
 ramp-up (soft starting) ramp-down (soft stop) 	Yes				
 ramp-down (soft stop) Soft Torque 					
•	Yes				
adjustable current limitation	Yes				
pump ramp down intrinsic dovice protection	Yes				
intrinsic device protection					
motor overload protection	Yes; Electronic motor overload protection No				
 evaluation of thermistor motor protection inside-delta circuit 	Yes				
auto-RESET	Yes				
	Yes				
manual RESET					
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 via software configurable 	No Yes				
PROFlenergy	Yes: in connection with the PROFINET Standard communication				
• Ficor lenergy	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	-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	10 %				
inside-delta circuit operating power for 3-phase motors					
-F					

• 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 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 	627 A 658 A
 for inside-deita circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	689 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	721 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	752 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	783 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	814 A
 Ioi inside-deta circuit at rotary coung switch on 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	
ponor 1035 [11] 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/DC				
control supply voltage at AC					
• at 50 Hz rated value	24 V				
• at 60 Hz rated value	24 V				
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %				
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %				
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %				
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %				
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 voltage					
 at DC rated value 	24 V				
relative negative tolerance of the control supply voltage at DC	-20 %				
relative positive tolerance of the control supply voltage at DC	20 %				
control supply current in standby mode rated value	160 mA				
holding current in bypass operation rated value	470 mA				
locked-rotor current at close of bypass contact maximum	7.6 A				
inrush current peak at application of control supply voltage maximum	3.3 A				
duration of inrush current peak at application of control supply voltage	12.1 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	0.0 Ng				
type of electrical connection					
for main current circuit	busbar connection				
for control circuit					
width of connection bar maximum	_ spring-loaded terminals _ 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 (30 240 mm ²)				
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 	2x (0.25 1.5 mm ²)				
 at AWG cables for control circuit solid 	2x (24 16)				
 at AWG cables for control circuit finely stranded with 	2x (24 16)				
core end processing					
wire length					
 between soft starter and motor maximum 	800 m				
 at the digital inputs at AC maximum 	100 m				
 at the digital inputs at DC maximum 	1 000 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]	404 040 114 1-				
 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				
Ambient conditions					
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog				
	, , , , , , , , , , , , , , , , , , , ,				
ambient temperature					
 ambient temperature during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
	· · · · · · · · · · · · · · · · · · ·				
during operation	above				
during operation during storage and transport	above				
during operation during storage and transport environmental category o during operation according to IEC 60721 oduring storage according to IEC 60721	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				
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	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)				
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	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				
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 Communication/ Protocol	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)				
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 Communication/ Protocol communication module is supported	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				
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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 during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU	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 Yes Yes				
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 during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP	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 Yes Yes Yes				
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during operation during storage and transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according	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 Yes Yes Yes				
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• at 200/208 V at 5	0 °C rated value		150 hp	p			
• at 220/230 V at 5	0 °C rated value		150 hp				
• at 460/480 V at 5	0 °C rated value		350 hp	0			
• at 575/600 V at 5	• at 575/600 V at 50 °C rated value			450 hp			
● at 200/208 V at ir value	• at 200/208 V at inside-delta circuit at 50 °C rated			þ			
• at 220/230 V at ir value	• at 220/230 V at inside-delta circuit at 50 °C rated			250 hp			
● at 460/480 V at ir value	• at 460/480 V at inside-delta circuit at 50 °C rated		600 hp				
● at 575/600 V at ir value	• at 575/600 V at inside-delta circuit at 50 °C rated		800 hp				
contact rating of auxil	liary contacts acco	ording to UL	R300-B300				
Safety related data	,	U					
protection class IP on	the front accordir	ng to IEC	IP00;	IP20 with cover			
<u>60529</u>				and for a section of a sector	4 for an 41 - for at 11/41 -		
touch protection on th		to IEC 60529	-	-safe, for vertical contac		over	
electromagnetic comp	oatibility		in acc	ordance with IEC 6094	7-4-2		
Certificates/ approvals							
General Product App	roval					EMC	
		<u>Confirmation</u>	<u>on</u>	(UL) UL	EHC	RCM	
Declaration of Confor CE EG-Konf.	UK CA	Test Certifica <u>Type Test Ce</u> <u>ates/Test Re</u>	rtific-	Marine / Shipping	BUREAU VERITAS	Lloyd's Register us	
Marine / Shipping		other					
PRS		<u>Confirmation</u>	<u>on</u>				
Further information							
Information- and Dow https://www.siemens.co		ogs, Brocnures,.)				
Industry Mall (Online							
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5247-2AC05							
Cax online generator	Cax online generator						
http://support.automatic					<u>7-2AC05</u>		
	Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-2AC05							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-2AC05⟨=en							
Characteristic: Trippin https://support.industry.	ng characteristics, siemens.com/cs/ww	l ² t, Let-through o	current				
Characteristic: Installa http://www.automation.s	siemens.com/bilddb	/index.aspx?view=	=Searcha	&mlfb=3RW5247-2AC0	5&objecttype=14&gric	lview=view1	
Simulation Tool for So	off Startore (STS)						

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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4/10/2022 🖸

7/8/2022