SIEMENS

Data sheet

3RW5213-1AC04



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC 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 	<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 	<u>3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
 of circuit breaker usable at 500 V 	<u>3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10</u>				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10</u>				
 of the gG fuse usable up to 690 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>				
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3820-6: Type of coordination 1, Iq = 65 kA</u>				
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1815-0: Type of coordination 2, Iq = 65 kA</u>				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8017-1; 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				
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					

In or main current circuit In or main current circuit In control circuit Insulation voltage rated value Gener of public Subscript voltage rester value Subscript voltage Subscript voltage rester value Subscript voltage		100				
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 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 11 kW 						
• at 400 V at inside-delta circuit at 40 °C rated value 11 kW	• at 230 V at inside_delta circuit at 40 °C rated value	5.5 kW				
Operating frequency 1 rated value 50 Hz	• at 400 V at 40 °C rated value					
	 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	11 kW				

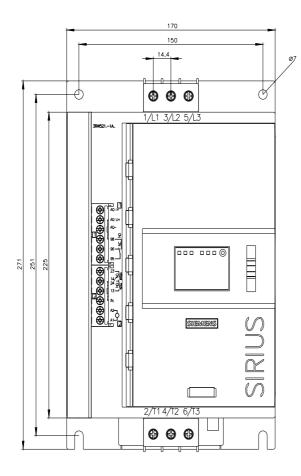
Operating frequency 2 rated value	60 Hz			
relative negative tolerance of the operating frequency	-10 %			
relative positive tolerance of the operating frequency	10 %			
adjustable motor current				
at rotary coding switch on switch position 1	5.5 A			
at rotary coding switch on switch position 2	6 A			
 at rotary coding switch on switch position 3 	6.5 A			
 at rotary coding switch on switch position 4 	7 A 7 5 A			
at rotary coding switch on switch position 5	7.5 A			
 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 	8 A 8.5 A			
 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 	9.5 A			
 at rotary coding switch on switch position o at rotary coding switch on switch position 9 	9 A 9.5 A			
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	9.5 A 10 A			
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	10.5 A			
 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 	11 A			
 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 	11.5 A			
 at rotary coding switch on switch position 14 	12 A			
at rotary coding switch on switch position 15	12.5 A			
at rotary coding switch on switch position 16	13 A			
• minimum	5.5 A			
adjustable motor current				
 for inside-delta circuit at rotary coding switch on switch position 1 	9.5 A			
 for inside-delta circuit at rotary coding switch on switch position 2 	10.4 A			
 for inside-delta circuit at rotary coding switch on switch position 3 	11.3 A			
• for inside-delta circuit at rotary coding switch on switch position 4	12.1 A			
• for inside-delta circuit at rotary coding switch on switch position 5	13 A			
 for inside-delta circuit at rotary coding switch on switch position 6 	13.9 A			
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on 	14.7 A 15.6 A			
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	16.5 A			
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	17.3 A			
 switch position 10 for inside-delta circuit at rotary coding switch on 	18.2 A			
switch position 11for inside-delta circuit at rotary coding switch on	19.1 A			
switch position 12for inside-delta circuit at rotary coding switch on	19.9 A			
 switch position 13 for inside-delta circuit at rotary coding switch on 	20.8 A			
 switch position 14 for inside-delta circuit at rotary coding switch on switch position 15 	21.7 A			
 for inside-delta circuit at rotary coding switch on switch position 16 	22.5 A			
at inside-delta circuit minimum	9.5 A			
minimum load [%]	15 %; Relative to smallest settable le			
power loss [W] for rated value of the current at AC				
• at 40 °C after startup	16 W			
● at 50 °C after startup	15 W			
• at 60 °C after startup	15 W			
power loss [W] at AC at current limitation 350 %				
 at 40 °C during startup 	210 W			
● at 50 °C during startup	178 W			
● at 60 °C during startup	161 W			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				

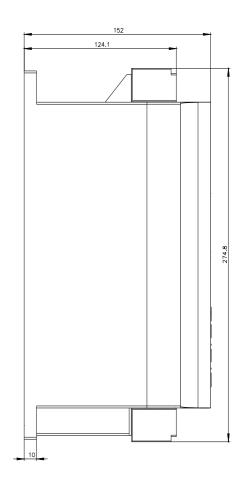
 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive 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	360 mA
locked-rotor current at close of bypass contact maximum	0.75 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	
	4
number of digital inputs	1
number of digital outputs	3 2
not parameterizable	
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 250 V rated value	1A
	TA
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	152 mm
required spacing with side-by-side mounting	10 mm
• forwards	10 mm
 backwards 	
	0 mm
• upwards	0 mm 100 mm
downwards	0 mm 100 mm 75 mm
downwardsat the side	0 mm 100 mm 75 mm 5 mm
 downwards at the side weight without packaging 	0 mm 100 mm 75 mm
downwards at the side weight without packaging Connections/ Terminals	0 mm 100 mm 75 mm 5 mm
downwards at the side weight without packaging Connections/ Terminals type of electrical connection	0 mm 100 mm 75 mm 5 mm 2.1 kg
downwards at the side weight without packaging Connections/ Terminals type of electrical connection o for main current circuit	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit	0 mm 100 mm 75 mm 5 mm 2.1 kg
• downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit type of connectable conductor cross-sections	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
 downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts 	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals
 downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts solid 	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
 downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
 downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts solid 	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)

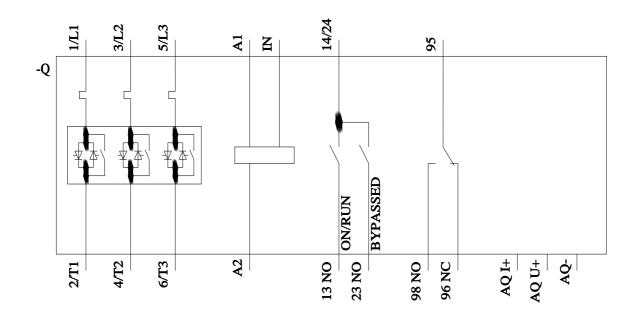
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
processing				
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at AC maximum 	100 m			
 at the digital inputs at DC maximum 	1 000 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]				
 for main contacts with screw-type terminals 	18 22 lbf·in			
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in			
terminals				
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 according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
	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 RTU				
	Yes			
 Modbus RTU Modbus TCP PROFIBUS 	Yes Yes			
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings	Yes Yes			
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes			
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes Yes			
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V	Yes Yes			
Modbus RTU Modbus TCP PROFIBUS 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	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65			
Modbus RTU Modbus TCP PROFIBUS 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	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
Modbus RTU Modbus TCP PROFIBUS 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	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA			
Modbus RTU Modbus TCP PROFIBUS 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	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
 Modbus RTU Modbus TCP PROFIBUS 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 	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65			
 Modbus RTU Modbus TCP PROFIBUS 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 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 	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
 Modbus RTU Modbus TCP PROFIBUS 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 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 	Yes Yes Yes Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA			
 Modbus RTU Modbus TCP PROFIBUS 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 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 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Yes Yes Yes Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA Siemens type: $3RV2742$, max. 30 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 35 A; lq max = 65 kA Siemens type: $3RV2742$, max. 40 A or $3VA51$, max. 40 A; lq = 5 kA			
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	• at 220/230 V at inside-delta circuit at 50 °C rated		5 hp			
value at 460/480 V at inside-delta circuit at 50 °C rated value 		10 hp				
contact rating of auxil	iary contacts accord	ding to UL	R300	D-B300		
Safety related data		5				
protection class IP on 60529	the front according	to IEC	IP20			
touch protection on the electromagnetic comp	-	DIEC 60529	-	er-safe, for vertical cont cordance with IEC 609		
Certificates/ approvals						
General Product Appr	roval					EMC
() E	<u>Confirmation</u>)	UL UL	EHC	RCM
Declaration of Confor	mity	Test Certifica	ates	Marine / Shipping		
UK CA	CE EG-Konf.	<u>Type Test Ce</u> <u>ates/Test Re</u>		ABS	BUREAU VERITAS	Lloyd's Register urs
Marine / Shipping		other				
PRS	DNV-GL DNV-GL	<u>Confirmatic</u>	<u>on</u>			
Further information						
Information- and Down	nloadcenter (Catalo	gs, Brochures,.)			
https://www.siemens.co						
Industry Mall (Online on https://mall.industry.sier		/Catalog/product	t?mlfb=	3RW5213-1AC04		
Cax online generator		<u> </u>		<u></u>		
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5213-1AC04						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC04⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04/char						
	Characteristic: Installation altitude					
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1AC04&objecttype=14&gridview=view1						
Simulation Tool for So	oft Starters (STS)					

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







10/24/2022

last modified: