SIEMENS

Data sheet

3RW5217-1AC04



SIRIUS soft starter 200-480 V 38 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 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1820-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; 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

product componentHMI-High Feature

CSA approval

• is supported HMI-Standard

number of controlled phases

• is supported HMI-High Feature

buffering time in the event of power failure

product feature integrated bypass contact system

Yes

Yes

No

Yes

Yes

Yes

3

 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
	1 600 V
blocking voltage of the thyristor maximum	
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	200.1/
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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Diboron trioxide - 1303-86-2
Weight	2.3 kg
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	38 A
at 50 °C rated value	33.5 A
at 50 °C rated value	30.5 A 30.5 A
operational current at inside-delta circuit	
at 40 °C rated value	65.8 A
at 40 °C rated value at 50 °C rated value	58 A
	58 A 52.8 A
at 60 °C rated value	J2.0 A
operating voltage	200 480.1/
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 relative negative tolerance of the operating voltage at inside-delta circuit	10 % -15 %
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	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	18.5 kW
• at 400 V at 40 °C rated value	18.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	30 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 	15.5 A
 at rotary coding switch on switch position 2 	17 A
 at rotary coding switch on switch position 3 	18.5 A
 at rotary coding switch on switch position 4 	20 A
 at rotary coding switch on switch position 5 	21.5 A
 at rotary coding switch on switch position 6 	23 A
 at rotary coding switch on switch position 7 	24.5 A
 at rotary coding switch on switch position 8 	26 A
 at rotary coding switch on switch position 9 	27.5 A
 at rotary coding switch on switch position 10 	29 A
 at rotary coding switch on switch position 11 	30.5 A
 at rotary coding switch on switch position 12 	32 A
 at rotary coding switch on switch position 13 	33.5 A
• at rotary coding switch on switch position 14	35 A
 at rotary coding switch on switch position 15 	36.5 A
 at rotary coding switch on switch position 16 	38 A
• minimum	15.5 A
adjustable motor current	
• for inside-delta circuit at rotary coding switch on switch position 1	26.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	29.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	32 A
 for inside-delta circuit at rotary coding switch on switch position 4 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	37.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	39.8 A
• for inside-delta circuit at rotary coding switch on switch position 7	42.4 A
 for inside-delta circuit at rotary coding switch on switch position 8 	45 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on switch 	47.6 A
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 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	58 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	60.6 A
 for inside delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	63.2 A
position 15for inside-delta circuit at rotary coding switch on switch	65.8 A
position 16 • at inside-delta circuit minimum	26.8 A
minimum load [%]	20.071
	15 %: Relative to smallest settable lo
	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
	15 %; Relative to smallest settable le 23 W 22 W

prover toos [M] at AC at current limitation 360 % 628 W e: 80 °C during saturp 628 W e: 80 °C during saturp 628 W other current limitation 360 % 628 W e: 80 °C during saturp 628 W other current limitation 360 % 628 W control supply voltage at AC 464 W other current limitation 360 % 620 % control supply voltage at AC 24 V e: 80 for carded value 24 V control supply voltage at AC 24 V e: 80 for carded value 20 % control supply voltage at Carded value 20 % control supply voltage frequency 50 - 60 112 relative negative tolerance of the control supply voltage 20 % control supply voltage at DC rates value 20 % relative positive tolerance of the control supply voltage at DC rates value 20 % relative positive tolerance of the control supply voltage at DC rates value 20 % relative positive tolerance of the control supply voltage at DC rates value 20 % relative positive tolerance of the control supply voltage at DC rates value 20 % relative positive tolerance		-
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switching capacity current of the relay outputs 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 2.3 kg		
• at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm		
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 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 2.3 kg		3 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 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • backwards 0 mm • downwards 55 mm • at the side 5 mm weight without packaging 2.3 kg		
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 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 2.3 kg		
fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting - • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 2.3 kg		
height 275 mm width 170 mm depth 152 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 2.3 kg	fastening method	
width 170 mm depth 152 mm required spacing with side-by-side mounting 10 mm o forwards 10 mm o backwards 0 mm o upwards 100 mm o downwards 75 mm o at the side 5 mm weight without packaging 2.3 kg		
depth 152 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 2.3 kg		
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 2.3 kg		
• forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg	•	
• upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals		10 mm
downwards 75 mm at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals	backwards	0 mm
• downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg	• upwards	100 mm
weight without packaging 2.3 kg Connections/ Terminals 2.3 kg		75 mm
weight without packaging 2.3 kg Connections/ Terminals 2.3 kg		
Connections/ Terminals		
	type of electrical connection	
for main current circuit screw-type terminals		screw-type terminals

e for control 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)
for 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)
 for 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)
Environmental footprint	
Global Warming Potential [CO2 eq] total	185 kg
Global Warming Potential [CO2 eq] during manufacturing	37.2 kg
global warming potential [CO2 eq] during sales	0.66 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-4.19 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Electromagnetic compatibility	
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	Ver
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. 125 A; lq = 5 kA
— 60/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
- at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
- 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
— at 575/600 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 150 A; lq = 5 kA
- usable for High Faults up to 575/600 V according to	Type: Class J / L, max. 150 A; Ig = 100 kA

	Standard Faults at inside- according to UL	delta circuit up	Type: Class RK5 / K5, max.	150 A; lq = 5 kA	
— usable for I 575/600 V acc	High Faults at inside-delta cording to UL	a circuit up to	Type: Class J / L, max. 150 /	A; Iq = 100 kA	
operating power [hp]	for 3-phase motors				
• at 200/208 V at \$	50 °C rated value		10 hp		
• at 220/230 V at \$	50 °C rated value		10 hp		
• at 460/480 V at \$	50 °C rated value		20 hp		
• at 200/208 V at i	inside-delta circuit at 50 °	C rated value	15 hp		
• at 220/230 V at i	inside-delta circuit at 50 °	C rated value	20 hp		
• at 460/480 V at i	nside-delta circuit at 50 °	C rated value	40 hp		
contact rating of auxi	liary contacts according	g to UL	R300-B300		
Electrical Safety					
protection class IP or	the front according to	IEC 60529	IP20		
touch protection on t	he front according to IE	C 60529	finger-safe, for vertical conta	ct from the front	
oprovals Certificates					
General Product App	roval				
		UK	EG-Konf.		C A L
			EG-RAIL.		CUL
		CA Test Certificate	EG-Will.		CUL
	<u>KC</u>		es Marine / Shipping		
EMV EMV RCM	KC	Test Certificate	es Marine / Shipping		Lloyds Register us
RCM		Test Certificate	es Marine / Shipping	U. U.U. U.U. U.U.U.U.U.U.U.U.U.U.U.U.U.	Lloyds Register Uts

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5217-1AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-1AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5217-1AC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1AC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-1AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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





