SIEMENS

Data sheet

3RW5214-1AC04



SIRIUS soft starter 200-480 V 18 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>3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
 of circuit breaker usable at 500 V 	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4EA10: Type of coordination 1. Iq = 65 kA. CLASS 10</u>
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4EA10; Type of coordination 1, lq = 15 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>3NE1802-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8020-1; 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	

 for main current circuit 	100
	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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque adjustable surrent limitation	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
· i iteriology	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	18 A
at 50 °C rated value	15.9 A
at 60 °C rated value	13.8 A
operational current at inside-delta circuit	
•	21 5 4
• at 40 °C rated value	31.5 A
 at 40 °C rated value at 50 °C rated value 	28 A
 at 40 °C rated value at 50 °C rated value at 60 °C rated value 	
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage 	28 A 23.9 A
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value 	28 A 23.9 A 200 480 V
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value 	28 A 23.9 A 200 480 V 200 480 V
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 	28 A 23.9 A 200 480 V 200 480 V -15 %
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 	28 A 23.9 A 200 480 V 200 480 V
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 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 	28 A 23.9 A 200 480 V 200 480 V -15 % 10 % -15 %
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 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	28 A 23.9 A 200 480 V 200 480 V -15 % 10 % 10 %
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value 	28 A 23.9 A 200 480 V 200 480 V -15 % 10 % 10 % 4 kW
 at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value 	28 A 23.9 A 200 480 V 200 480 V -15 % 10 % 10 % 4 kW 7.5 kW
 at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 400 V at 40 °C rated value 	28 A 23.9 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 4 kW 7.5 kW 7.5 kW

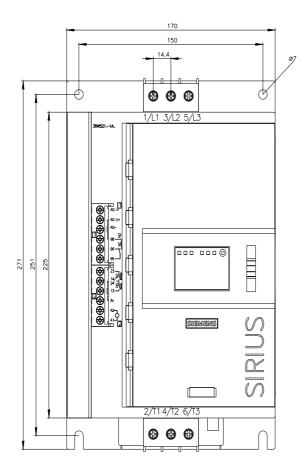
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	7.5 A
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 	8.2 A 8.9 A
 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 	9.6 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	10.3 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	11 A
 at rotary coding switch on switch position 7 	11.7 A
 at rotary coding switch on switch position 8 	12.4 A
 at rotary coding switch on switch position 9 	13.1 A
• at rotary coding switch on switch position 10	13.8 A
 at rotary coding switch on switch position 11 	14.5 A
 at rotary coding switch on switch position 12 	15.2 A
 at rotary coding switch on switch position 13 	15.9 A
 at rotary coding switch on switch position 14 	16.6 A
 at rotary coding switch on switch position 15 	17.3 A
 at rotary coding switch on switch position 16 	18 A
• minimum	7.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	13 A
 for inside-delta circuit at rotary coding switch on switch position 2 	14.2 A
 for inside-delta circuit at rotary coding switch on switch position 3 	15.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	16.6 A
• for inside-delta circuit at rotary coding switch on switch position 5	17.8 A
• for inside-delta circuit at rotary coding switch on switch position 6	19.1 A
 for inside-delta circuit at rotary coding switch on switch position 7 	20.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	21.5 A 22.7 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on 	23.9 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	25.1 A
 switch position 11 for inside-delta circuit at rotary coding switch on 	26.3 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	27.5 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	28.8 A
 switch position 14 for inside-delta circuit at rotary coding switch on 	30 A
 switch position 15 for inside-delta circuit at rotary coding switch on 	31.2 A
switch position 16 • at inside-delta circuit minimum	13 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	17 W
• at 50 °C after startup	17 W
● at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	070.11/
• at 40 °C during startup	276 W
 at 50 °C during startup at 60 °C during startup 	241 W 200 W
Control circuit/ Control	
type of voltage of the control supply voltage	
control supply voltage at AC	AC/DC
control supply voltage at AC	

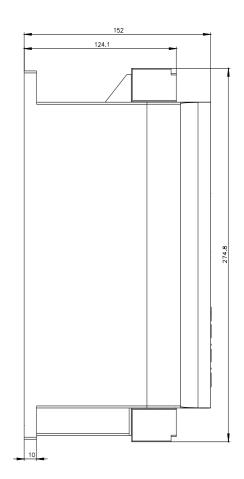
 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive 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 24 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)

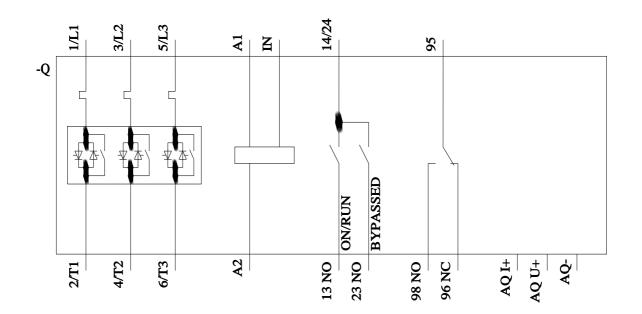
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
	0.05 N m
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type terminale 	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
	400. 10 1E0 00047 4 2. 01433 A
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	Yes
EtherNet/IP	Yes
EtherNet/IPModbus RTU	Yes Yes
Modbus RTU	Yes
Modbus RTUModbus TCP	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 according to UL	Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 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	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 according to UL — usable for High Faults at 460/480 V according	Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 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 	Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 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 High 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 575/600 V 	Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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