SIEMENS

Data sheet

3RW5226-1TC04



SIRIUS soft starter 200-480 V 77 A, 24 V AC/DC Screw terminals Thermistor input

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 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1224-0; 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

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 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	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 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	
-	Yes
• ramp-up (soft starting)	Yes
ramp-down (soft stop)	
Soft Torque	Yes
adjustable current limitation	Yes
• pump ramp down	Yes
 intrinsic device protection 	Yes
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
 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	No
Power Electronics	140
operational current	77 A
• at 40 °C rated value	77 A
• at 50 °C rated value	68 A
at 60 °C rated value	62 A
operational current at inside-delta circuit	
• at 40 °C rated value	133 A
• at 50 °C rated value	118 A
● at 60 °C rated value	107 A
operating voltage	
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	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-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	22 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	37 kW
at 400 V at 40 °C rated value	37 kW
• at 400 V at 40°C rated value • at 400 V at inside-delta circuit at 40 °C rated value	75 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 	32 A
 at rotary coding switch on switch position 2 	35 A
 at rotary coding switch on switch position 3 	38 A
 at rotary coding switch on switch position 4 	41 A
 at rotary coding switch on switch position 5 	44 A
 at rotary coding switch on switch position 6 	47 A
 at rotary coding switch on switch position 7 	50 A
 at rotary coding switch on switch position 8 	53 A
 at rotary coding switch on switch position 9 	56 A
 at rotary coding switch on switch position 10 	59 A
 at rotary coding switch on switch position 11 	62 A
 at rotary coding switch on switch position 12 	65 A
 at rotary coding switch on switch position 13 	68 A
 at rotary coding switch on switch position 14 	71 A
 at rotary coding switch on switch position 15 	74 A
 at rotary coding switch on switch position 16 	77 A
• minimum	32 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	55.4 A
 for inside-delta circuit at rotary coding switch on switch position 2 	60.6 A
• for inside-delta circuit at rotary coding switch on switch position 3	65.8 A
for inside-delta circuit at rotary coding switch on switch position 4	71 A
for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at rotary coding switch on switch	76.2 A 81.4 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch 	86.6 A
 for inside delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	91.8 A
 position 8 for inside-delta circuit at rotary coding switch on switch 	97 A
position 9for inside-delta circuit at rotary coding switch on switch	102 A
position 10for inside-delta circuit at rotary coding switch on switch	107 A
 position 11 for inside-delta circuit at rotary coding switch on switch 	113 A
 position 12 for inside-delta circuit at rotary coding switch on switch position 12 	118 A
 position 13 for inside-delta circuit at rotary coding switch on switch position 14 	123 A
 for inside-delta circuit at rotary coding switch on switch position 15 	128 A
 for inside-delta circuit at rotary coding switch on switch position 16 	133 A
• at inside-delta circuit minimum	55.4 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	35 W
• at 50 °C after startup	32 W
• at 60 °C after startup	31 W
power loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	1 107 W
● at 50 °C during startup	933 W
● at 60 °C during startup	826 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	380 mA
inrush current by closing the bypass contacts 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	
Inputs/ Outputs number of digital inputs	1
	1 3
number of digital inputs	
number of digital inputs number of digital outputs • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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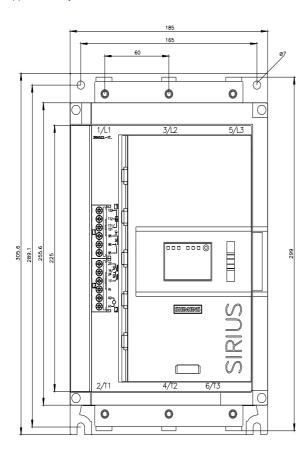
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• for auxiliary and control contacts with screw-type terminals 0.81.2 N·m tightening torque [lbf:h] 4053 lbf:in • for main contacts with screw-type terminals 4053 lbf:in Ambient conditions 710.3 lbf:in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -40+60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) • EMC emitted interference acc. to IEC 6097:4-2: Class A Communication/ Protocol Communication communication module is supported Yes • PROFINET standard Yes • Reportises Yes • Modbus RTU Yes • PROFINET standard Yes • PROFINET standard Yes • PROFINET standard Yes • Reportisus Yes <tr< td=""><td>tightening torque</td><td></td></tr<>	tightening torque	
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	tightening torque [lbf·in]	
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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 Yes manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA	• during storage according to IEC 60721	
Communication / Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes 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 Siemens type: 3VA51, max. 125 A; Iq = 10 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported PROFINET standard Yes • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq max = 65 kA - usable for Standard Faults at 460/480 V at inside- Siemens type: 3VA51, max. 125 A; Iq = 10 kA	EMC emitted interference	acc. to IEC 60947-4-2: Class A
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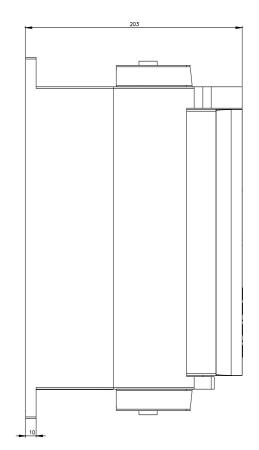
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 usable for Standard Faults at 575/600 V at inside delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
• of the fuse	
	Type: Class RK5 / K5, max. 250 A; lq = 10 kA
— usable for High Faults up to 575/600 V according UL	to Type: Class J / L, max. 250 A; lq = 100 kA
 — usable for Standard Faults at inside-delta circuit to 575/600 V according to UL 	rp Type: Class RK5 / K5, max. 250 A; lq = 10 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 250 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	20 hp
 at 220/230 V at 50 °C rated value 	25 hp
 at 460/480 V at 50 °C rated value 	50 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	•
• at 220/230 V at inside-delta circuit at 50 °C rated value	
 at 460/480 V at inside delta circuit at 50 °C rated value 	
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	1,300-5300
protection class IP on the front according to IEC 60529	ID00: ID20 with cover
	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
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Declaration of Conformity Test Cer	ificates Marine / Shipping
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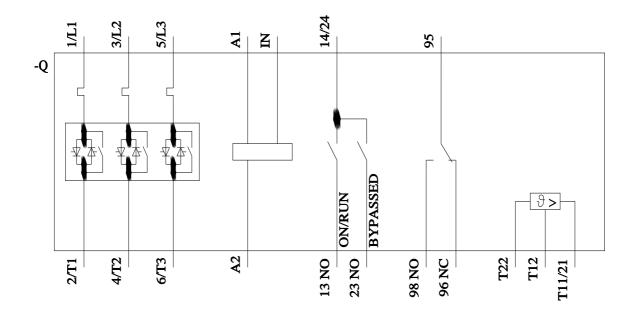
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https://support.industry.siemens.com/cs/ww/en/view/101494917







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