SIEMENS

Data sheet

3RW5216-3TC05



SIRIUS soft starter 200-600 V 32 A, 24 V AC/DC spring-type 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 	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 10 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4JA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4JA10;</u> Type of coordination 1, Iq = 10 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	<u>3NA3824-6;</u> Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6;</u> Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0;</u> Type of coordination 2, Iq = 65 kA			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1;</u> Type of coordination 2, Iq = 65 kA			
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				

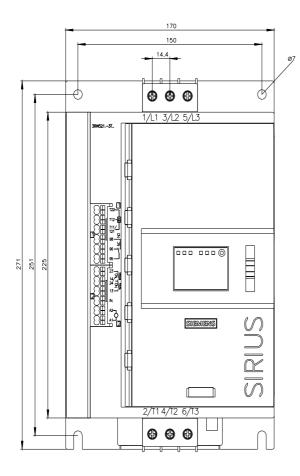
for main current circuit	100 ms				
for control circuit	100 ms				
insulation voltage rated value	600 V				
degree of pollution					
	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV 1 600 V				
blocking voltage of the thyristor maximum service factor	1 600 V				
	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation	C00.1/				
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				
product function	Vec				
• 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; 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					
operational current					
at 40 °C rated value	32 A				
at 50 °C rated value	28 4 A				
at 60 °C rated value	26 A				
operational current at inside-delta circuit					
at 40 °C rated value	55.4 A				
• at 50 °C rated value	49 A				
at 60 °C rated value	45 A				
operating voltage					
rated value	200 600 V				
	200 600 V 200 600 V				
 rated value at inside-delta circuit rated value					
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 	200 600 V				
 rated value at inside-delta circuit rated value	200 600 V -15 %				
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at 	200 600 V -15 % 10 %				
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at 	200 600 V -15 % 10 % -15 %				
 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 	200 600 V -15 % 10 % -15 %				
 rated value at inside-delta circuit rated value 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 	200 600 V -15 % 10 % -15 %				
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 	200 600 V -15 % 10 % -15 % 10 % 7.5 kW				
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 230 V at inside-delta circuit at 40 °C rated value 	200 600 V -15 % 10 % -15 % 10 % 7.5 kW 15 kW				
 rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 	200 600 V -15 % 10 % -15 % 10 % 7.5 kW 15 kW				

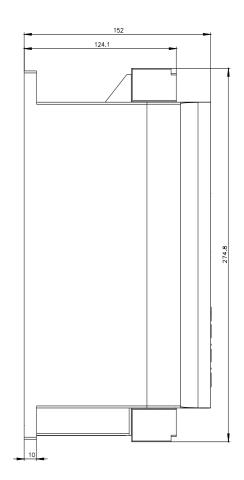
 at 500 V at inside-delta circuit at 40 °C rated value 	30 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	14 A
 at rotary coding switch on switch position 2 	15.2 A
 at rotary coding switch on switch position 3 	16.4 A
 at rotary coding switch on switch position 4 	17.6 A
 at rotary coding switch on switch position 5 	18.8 A
 at rotary coding switch on switch position 6 	20 A
 at rotary coding switch on switch position 7 	21.2 A
 at rotary coding switch on switch position 8 	22.4 A
 at rotary coding switch on switch position 9 	23.6 A
 at rotary coding switch on switch position 10 	24.8 A
 at rotary coding switch on switch position 11 	26 A
 at rotary coding switch on switch position 12 	27.2 A
 at rotary coding switch on switch position 13 	28.4 A
 at rotary coding switch on switch position 14 	29.6 A
 at rotary coding switch on switch position 15 	30.8 A
 at rotary coding switch on switch position 16 	32 A
• minimum	14 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	24.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	26.3 A
 for inside-delta circuit at rotary coding switch on switch position 3 	28.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	30.5 A
 for inside-delta circuit at rotary coding switch on switch position 5 	32.6 A
 for inside-delta circuit at rotary coding switch on switch position 6 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 7 	36.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 	38.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 10 	43 A
 for inside-delta circuit at rotary coding switch on switch position 11 	45 A
 for inside-delta circuit at rotary coding switch on switch position 12 	47.1 A
 for inside-delta circuit at rotary coding switch on switch position 13 	49.2 A
 for inside-delta circuit at rotary coding switch on switch position 14 	51.3 A
 for inside-delta circuit at rotary coding switch on switch position 15 	53.3 A
 for inside-delta circuit at rotary coding switch on switch position 16 	55.4 A
 at inside-delta circuit minimum 	24.2 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	22 W
• at 50 °C after startup	21 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	F04.144
• at 40 °C during startup	531 W
• at 50 °C during startup	449 W 205 W
at 60 °C during startup	395 W
Control circuit/ Control	

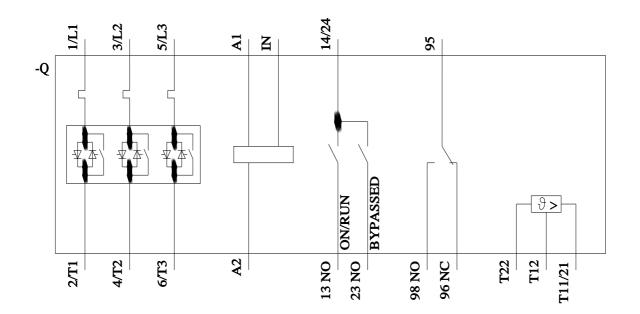
type of voltage of the control supply voltage	AC/DC				
control supply voltage at AC					
 at 50 Hz rated value 	24 V				
 at 60 Hz rated value 	24 V				
relative negative tolerance of the control supply	-20 %				
voltage at AC at 50 Hz					
relative positive tolerance of the control supply voltage at 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	-10 %				
voltage frequency					
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				
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					
	1				
number of digital inputs number of digital outputs	3				
not parameterizable	2				
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs					
switching capacity current of the relay outputs	Ŭ				
at AC-15 at 250 V rated value	3 A				
• at DC-13 at 24 V rated value	1A				
	1A				
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					
- forwarda	10 mm				
• forwards	10 mm				
backwards	0 mm				
backwardsupwards	0 mm 100 mm				
backwardsupwardsdownwards	0 mm 100 mm 75 mm				
 backwards upwards downwards at the side 	0 mm 100 mm 75 mm 5 mm				
 backwards upwards downwards at the side weight without packaging 	0 mm 100 mm 75 mm				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals 	0 mm 100 mm 75 mm 5 mm				
backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection	0 mm 100 mm 75 mm 5 mm 2.3 kg				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals				
 backwards upwards 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 2.3 kg				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit wire length for thermistor connection 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals 50 m				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals 50 m 150 m				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals 50 m				
 backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	0 mm 100 mm 75 mm 5 mm 2.3 kg screw-type terminals spring-loaded terminals 50 m 150 m				

— solid	2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)				
— finely stranded with core end processing	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)				
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections					
• for control circuit solid	2x (0.25 1.5 mm ²)				
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)				
 at AWG cables for control circuit solid 	2x (24 16)				
 at AWG cables for control circuit finely stranded with 	2x (24 16) 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 	2 2.5 N·m				
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m				
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				
e during storage according to IEC 60721					
 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)				
 during transport according to IEC 60721 EMC emitted interference 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A				
EMC emitted interference Communication/ Protocol					
EMC emitted interference					
EMC emitted interference Communication/ Protocol communication module is supported	acc. to IEC 60947-4-2: Class A				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	acc. to IEC 60947-4-2: Class A Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	acc. to IEC 60947-4-2: Class A Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	acc. to IEC 60947-4-2: Class A Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference <u>Communication/ Protocol</u> <u>communication module is supported</u> • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • 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 at inside-delta circuit according to UL	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65				
EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP 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 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	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max.70 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA				
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EMC emitted interference Communication / Protocol communication module is supported PROFINET standard EtherNet/IP 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 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 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 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 up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA				
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