SIEMENS

Data sheet

3RW5226-1AC05



SIRIUS soft starter 200-600 V 77 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>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	<u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
 of the gG fuse usable up to 690 V 	<u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1224-0;</u> Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1;</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	

e for main ourront airquit	100 ms
 for main current circuit for control circuit 	100 ms
	600 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 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	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
	Yes; Only in conjunction with special accessories
error logbook	No
via software parameterizable	Yes
 via software configurable 	res
•	Very in second stars with the DDOEINET Other dead as recording tion
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
PROFlenergy	module
PROFlenergy firmware update	module Yes
 PROFlenergy firmware update removable terminal for control circuit 	module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	module Yes Yes No
 PROFlenergy firmware update removable terminal for control circuit 	module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 PROFlenergy firmware update removable terminal for control circuit torque control analog output 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at 40 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current 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 50 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current 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 50 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V -15 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V 10 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current 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 50 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V -15 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V 10 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 60 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit 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 relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 %
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 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C 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 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 relative positive 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 relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 777 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 60 °C rated value at 20 °C rated value at 20 °C rated value at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value 	module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %

 at 500 V at inside-delta circuit at 40 °C rated value 	90 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 	76.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	81.4 A
 for inside-delta circuit at rotary coding switch on switch position 7 	86.6 A
 for inside-delta circuit at rotary coding switch on switch position 8 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	97 A
 for inside-delta circuit at rotary coding switch on switch position 10 	102 A
 for inside-delta circuit at rotary coding switch on switch position 11 	107 A
 for inside-delta circuit at rotary coding switch on switch position 12 	113 A
 for inside-delta circuit at rotary coding switch on switch position 13 	118 A
 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 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
Innute/Outpute	
Inputs/ Outputs	1
number of digital inputs	1
	2
number of digital outputs	3
number of digital outputsnot parameterizable	2
number of digital outputs not parameterizable digital output version	2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital outputs • not parameterizable digital output version number of analog outputs	2
number of digital outputs not parameterizable digital output version	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	2 2 normally-open contacts (NO) / 1 changeover contact (CO)
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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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 fastening method	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
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 fastening method height width depth	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
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 fastening method height width depth required spacing with side-by-side mounting	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 100 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 75 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 75 mm
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
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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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals • for main current circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5.6 kg
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
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 fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm

processing	
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
 at AWG cables for main contacts for box terminal using the front clamping point 	1x (10 2/0)
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)
 at AWG cables for main contacts for box terminal using the back clamping point 	1x (10 2/0)
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
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 mm ²), 2x (0.5 1.5 mm ²)
at AWG cables for control circuit solid wire length	1x (20 12), 2x (20 14)
 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	1000 m
	4.5. G.N.m.
 for main contacts with screw-type terminals 	4.5 6 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 	40 53 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
Ambient conditions	
	5 000 m; Dereting as of 1000 m, and actual
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	
Modbus TCP	Yes
	Yes
PROFIBUS	
PROFIBUS UL/CSA ratings	Yes
	Yes
UL/CSA ratings	Yes
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	Yes
UL/CSA ratings manufacturer's article number • of circuit breaker	Yes Yes
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 Siemens type: 3VA51, max. 125 A; lq = 10 kA

 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	
— usable for Standard Faults at 575/600 V	Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
according to UL — usable for Standard Faults at 575/600 V at	Siemens type: 3VA51, max. 125 A; Ig = 10 kA	
inside-delta circuit according to UL	Siemens type. 37431, max. 123 A, iq = 10 kA	
 of the fuse 		
— usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 250 A; lq = 10 kA	
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 250 A; Iq = 100 kA	
	Type: Class RK5 / K5, max. 250 A; lq = 10 kA	
- usable for High Faults at inside-delta circuit up	Type: Class J / L, max. 250 A; lq = 100 kA	
to 575/600 V according to UL		
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 575/600 V at 50 °C rated value 	60 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated	30 hp	
value at 220/230 V at inside-delta circuit at 50 °C rated 	40 hp	
 at 460/480 V at inside-delta circuit at 50 °C rated 	75 hp	
value at 575/600 V at inside-delta circuit at 50 °C rated 	100 hp	
value contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data	1000-000	
protection class IP on the front according to IEC	IP00; IP20 with cover	
60529		
touch protection on the front according to IEC 60520	finder cafe, for vertical contact from the front with cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2	
electromagnetic compatibility	finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2	
electromagnetic compatibility Certificates/ approvals	-	
electromagnetic compatibility	-	
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-1AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5226-1AC05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

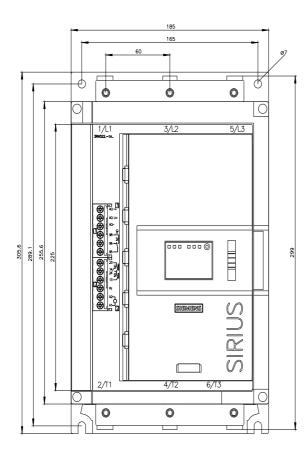
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC05/char

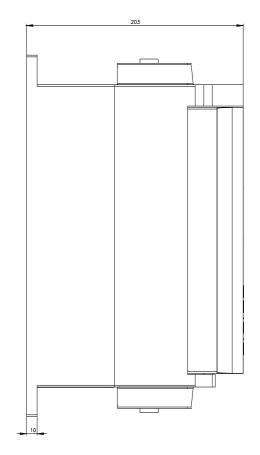
Characteristic: Installation altitude

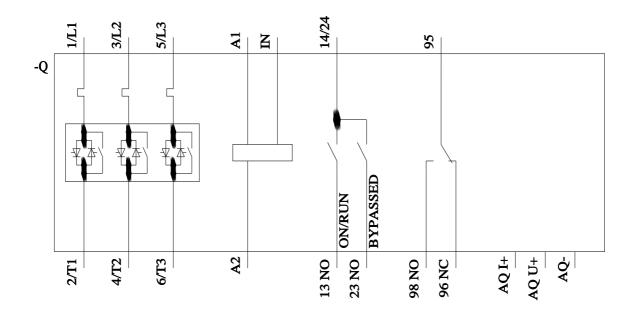
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1AC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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