SIEMENS

Data sheet

3RW5234-2AC05



SIRIUS soft starter 200-600 V 113 A, 24 V AC/DC spring-type terminals Analog output

MD NT					
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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of the gG fuse usable up to 690 V 	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA				
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA				
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1225-0;</u> Type of coordination 2, Iq = 65 kA				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3332-0B;</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				
blocking voltage of the thyristor maximum service factor	1 800 V 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				
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				
 removable terminal for control circuit torque control 	Yes No				
torque controlanalog output	No				
torque control	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
torque control analog output Power Electronics operational current	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
torque control analog output Power Electronics operational current at 40 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A				
torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A				
torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A				
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	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A				
 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 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A				
 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 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A				
 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 at 60 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A				
 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 50 °C rated value at 60 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A				
 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 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V				
 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 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V				
 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 50 °C rated value at 60 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V -15 %				
 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 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 %				
 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 50 °C rated value at 60 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V -15 %				
 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 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 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 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 %				
 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 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 positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V 10 % -15 %				
 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 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 positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 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 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 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 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 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V 15 % 10 % -15 %				
 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 10 °C rated value at 10 °C rated value at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 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 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 at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 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 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 at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
 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 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 operating power for 3-phase motors at 230 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 % -15 % 10 %				
 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 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 at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value 	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 113 A 101 A 89 A 196 A 175 A 154 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				

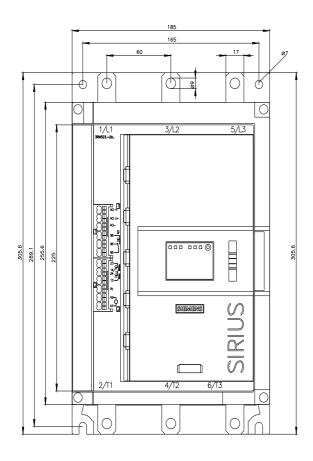
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
 adjustable motor current at rotary coding switch on switch position 1 	53 A
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	57 A
at rotary coding switch on switch position 3	61 A
 at rotary coding switch on switch position 4 	65 A
 at rotary coding switch on switch position 5 	69 A
 at rotary coding switch on switch position 6 	73 A
• at rotary coding switch on switch position 7	77 A
 at rotary coding switch on switch position 8 	81 A
 at rotary coding switch on switch position 9 	85 A
 at rotary coding switch on switch position 10 	89 A
 at rotary coding switch on switch position 11 	93 A
 at rotary coding switch on switch position 12 	97 A
 at rotary coding switch on switch position 13 	101 A
 at rotary coding switch on switch position 14 	105 A
 at rotary coding switch on switch position 15 	109 A
 at rotary coding switch on switch position 16 	113 A
• minimum	53 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	91.8 A
• for inside-delta circuit at rotary coding switch on switch position 2	98.7 A
• for inside-delta circuit at rotary coding switch on switch position 3	106 A
• for inside-delta circuit at rotary coding switch on switch position 4	113 A
• for inside-delta circuit at rotary coding switch on switch position 5	120 A
 for inside-delta circuit at rotary coding switch on switch position 6 	126 A
 for inside-delta circuit at rotary coding switch on switch position 7 	133 A
 for inside-delta circuit at rotary coding switch on switch position 8 	140 A
 for inside-delta circuit at rotary coding switch on switch position 9 	147 A
 for inside-delta circuit at rotary coding switch on switch position 10 	154 A
 for inside-delta circuit at rotary coding switch on switch position 11 	161 A
 for inside-delta circuit at rotary coding switch on switch position 12 	168 A
 for inside-delta circuit at rotary coding switch on switch position 13 	175 A
 for inside-delta circuit at rotary coding switch on switch position 14 	182 A
 for inside-delta circuit at rotary coding switch on switch position 15 	189 A
 for inside-delta circuit at rotary coding switch on switch position 16 	196 A
 at inside-delta circuit minimum 	91.8 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 	46 W
• at 50 °C after startup	42 W
• at 60 °C after startup	39 W
power loss [W] at AC at current limitation 350 %	4.640 \\
• at 40 °C during startup	1 512 W
• at 50 °C during startup	1 291 W 1 086 W
at 60 °C during startup	
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
• at 50 Hz rated value	24 \/
	24 V

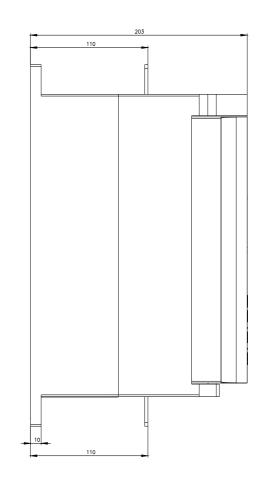
 at 60 Hz rated value 	24 V			
relative negative tolerance of the control supply	-20 %			
voltage at AC at 50 Hz	-20 70			
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %			
relative positive 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	-20 %			
voltage at DC				
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	3.3 A			
maximum				
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				
number of digital inputs	1			
number of digital outputs	3			
not parameterizable	2			
	-			
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	1			
- · ·				
switching capacity current of the relay outputs				
• at AC-15 at 250 V rated value	3 A			
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	3 A 1 A			
• at AC-15 at 250 V rated value				
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 				
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting			
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm			
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	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			
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 	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			
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 	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			
 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 	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			
 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 	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			
 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 	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			
 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 	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			
 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 	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			
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 • upwards • downwards • at the side weight without packaging Connections/ Terminals	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			
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	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 6.6 kg			
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	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 75 mm 5 mm 6.6 kg busbar connection			
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 	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 6.6 kg busbar connection spring-loaded terminals			
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	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 75 mm 5 mm 6.6 kg busbar connection			
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 • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	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 6.6 kg busbar connection spring-loaded terminals			
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 width of connection bar maximum 	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 6.6 kg busbar connection spring-loaded terminals			
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 width of connectable conductor cross-sections 	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 6.6 kg busbar connection spring-loaded terminals 25 mm			
 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 Connections/ Terminals type of electrical connection for control circuit for connectable conductor cross-sections for DIN cable lug for main contacts stranded 	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 10 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²)			
 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 Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 	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 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²)			
 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 width of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid 	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 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²)			
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 • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	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 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²)			
 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 control circuit width of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit solid for control circuit solid for control circuit finely stranded with core end 	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 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²)			

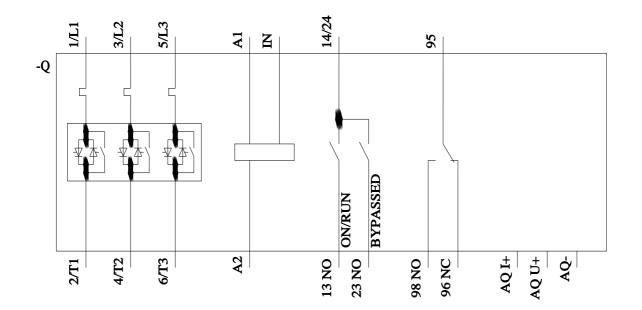
 at AWG cables for control circuit finely stranded with core end processing wire length between soft starter and motor maximum at the digital inputs at AC maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] 	2x (24 16) 800 m 100 m 1 000 m
 wire length between soft starter and motor maximum at the digital inputs at AC maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	100 m
 between soft starter and motor maximum at the digital inputs at AC maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	100 m
 at the digital inputs at AC maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	100 m
 at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	
 tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	1 000 m
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	
• for auxiliary and control contacts with screw-type terminals	
terminals	10 14 N·m
	0.8 1.2 N·m
tightening torgue lint-ini	
• for main contacts with screw-type terminals	89 124 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
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
a during transport according to IEO 00704	not get inside the devices), 1M4
• 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
	acc. 10 TEC 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	
manufacturer's article number	
 of circuit breaker 	
	Siemens type: 3VA52, max. 250 A; Ig = 10 kA
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
 usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according 	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
 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 	
 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 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA
 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 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
 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 Standard Faults at 575/600 V according to UL 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA
 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 Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V at 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
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 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 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 at 575/600 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V at inside-delta circuit 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 High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL asable for High Faults at inside-delta circuit up to 575/600 V according to UL asable for High Faults at inside-delta circuit up to 575/600 V according to UL asable for High Faults at inside-delta circuit up to 575/600 V according to UL asable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class J / L, max. 350 A; lq = 100 kA Type: Class RK5 / K5, max. 350 A; lq = 100 kA Type: Class RK5 / K5, max. 350 A; lq = 100 kA 30 hp 30 hp 30 hp 75 hp 100 hp
 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 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 at 575/600 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V at inside-delta circuit according to UL usable for Standard Faults up to 575/600 V at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value 	Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class J / L, max. 350 A; lq = 100 kA Type: Class RK5 / K5, max. 350 A; lq = 100 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA 30 hp 30 hp 30 hp 75 hp
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes

● at 460/480 V at value	t inside-delta circuit at	50 °C rated	125 hp			
	t inside-delta circuit at	50 °C rated	150 hp			
	ing of auxiliary contacts according to UL)		
Safety related data			R300-B300			
protection class IP	on the front accordin	g to IEC	IP00; IP20 with cover			
60529					201/05	
touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front with coverelectromagnetic compatibilityin accordance with IEC 60947-4-2				Jover		
Certificates/ approval			11 00001001		772	
General Product Ar						EMC
General Product A	oprovar					EWIC
SF.	CCC	<u>Confirmatio</u>	<u>n</u>	UL u	EHC	RCM
Declaration of Cont	formity	Test Certifica	ates Mai	ine / Shipping		
UK CA	C C EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	B UREAU VERITAS	Lloyd's Register uis
Marine / Shipping	other					
PRS	<u>Confirmation</u>					
Further information						
	ownloadcenter (Catalo	as Brochuree				
https://www.siemens.		ga, brochules,.)			
Industry Mall (Onlin https://mall.industry.s	e ordering system) siemens.com/mall/en/ei	n/Catalog/produc	t?mlfb=3RW5	234-2AC05		
Cax online generato	or					
	ation.siemens.com/WW			en&mlfb=3RW523	<u>34-2AC05</u>	
	lanuals, Certificates, ry.siemens.com/cs/ww					
Image database (pro	oduct images, 2D dim	ension drawing	s, 3D models		liagrams, EPLAN ma	icros,)
	n.siemens.com/bilddb/			2AC05⟨=en		
	ping characteristics, ry.siemens.com/cs/ww					
Characteristic: Insta	· ·	<u>, chi p3/01 x v 0204</u>				
http://www.automatio	n.siemens.com/bilddb/	index.aspx?view	=Search&mlft	=3RW5234-2AC0)5&objecttype=14&gri	<u>dview=view1</u>
Simulation Tool for	Soft Starters (STS) ry.siemens.com/cs/ww	/on/viow/101404	17			
https://support.indust	IV.SIGHIGHS.COM/CS/WW	<u>/CI//VIEW/101494</u>	211			

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







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