SIEMENS

product brand name

Data sheet 3RW5213-1AC04

SIRIUS



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC Screw terminals Analog output

product brand name	011100
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
• of communication module PROFINET standard usable	3RW5980-0CS00
• of communication module PROFIBUS usable	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1815-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8017-1; Type of coordination 2, Iq = 65 kA
eneral 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
number of controlled phases trip class	3 CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
·	
trip class	

degree of pollution	inculation voltage rated value	600 V		
Impulse voltage rated value 1600 V 1500 V	insulation voltage rated value			
	<u> </u>			
service factor 1 surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation 6 kV e/bedwen main and saukiny circuit 600 V solver resistance 15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting vibration resistance 15 mm to 6 ktz. 2g to 500 Hz vibration resistance 15 mm to 6 ktz. 2g to 500 Hz vibration resistance 15 mm to 6 ktz. 2g to 500 Hz vibration resistance 15 mm to 6 ktz. 2g to 500 Hz vibration resistance 15 mm to 6 ktz. 2g to 500 Hz vibration for cover code according to IEC 69346-2 Q camp-up (soft stating) 40 mm e- ramp-up (soft stating) 40 mm e- Soft Torque 45 mm e- Soft Torque 45 mm e- Soft Torque 45 mm e- Soft Torque 46 mm e- Indicate delta current 46 mm e- Indicate delta current 46 mm e- Indicate delta current 47 mm e- Indicate delta current 47 mm e- Indicate delta current 47 mm e- Indicate r				
Surgice voltage resistance rated value SkV				
Maximum permissible voltage for protective separation 600 V				
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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 dilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81346-2 Q Substance Prohibitance (Data) Q2/15/2018 product function Yes • ramp-up (set starting) Yes • Soft Torque Yes • Soft Torque Yes • Jump ramp down Yes • Influence developeration Yes • Influence protection Yes<		600.1/		
vibration resistance 15 mm to 6 Hz; 2g to 500 Hz willization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81348-2 Q Substance Prohibitance (Date) Yes • ramp-up (soft starting) Yes • ramp-up (soft starting) Yes • Soft Torque Yes • adjustable current limitation Yes • adjustable current limitation Yes • infinition device protection Yes • inforce ordinal protection Yes • communication function Yes • communication function Yes • remote rest Yes • poperating measured value display Yes • PROFinercy	·			
utilization category according to IEC 81947-4.2 AC 53a reference code according to IEC 81946-2 Q Substance Prohibitance (Date) 22152018 product function Yes - ramp-y (soft starting) Yes - ramp-down (soft stop) Yes - Soft Torque Yes - pump ramp down Yes - intrisice device protection Yes - intrisic device protection Yes - inder overload protection Yes - waluation of thermistor motor protection Yes - was office circuit Yes - enoncerest Yes - removale seet Yes - enor reportion Yes - was oftware parameterizable No - wis s				
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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 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 • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value				
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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 • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 50 °C rated value Operating frequency 1 rated value 50 Hz	relative negative 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 • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value Operating frequency 1 rated value 50 Hz	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 at 400 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 11 kW Operating frequency 1 rated value 50 Hz 	relative positive tolerance of the operating voltage at inside-delta circuit	10 %		
 at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 11 kW Operating frequency 1 rated value 50 Hz 	operating power for 3-phase motors			
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value th kW Operating frequency 1 rated value 50 Hz 	 at 230 V at 40 °C rated value 	3 kW		
• at 400 V at inside-delta circuit at 40 °C rated value 11 kW Operating frequency 1 rated value 50 Hz	• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW		
Operating frequency 1 rated value 50 Hz	 at 400 V at 40 °C rated value 	5.5 kW		
	• at 400 V at inside-delta circuit at 40 °C rated value	11 kW		
Operating frequency 2 rated value 60 Hz	Operating frequency 1 rated value	50 Hz		
	Operating frequency 2 rated value	60 Hz		

relative negative tolerance of the operating frequency	
relative positive tolerance of the operating frequency	10 /0
adjustable motor current	554
at rotary coding switch on switch position 1	5.5 A
at rotary coding switch on switch position 2	6 A
at rotary coding switch on switch position 3	6.5 A
at rotary coding switch on switch position 4	7 A
 at rotary coding switch on switch position 5 	7.5 A
 at rotary coding switch on switch position 6 	8 A
 at rotary coding switch on switch position 7 	8.5 A
 at rotary coding switch on switch position 8 	9 A
 at rotary coding switch on switch position 9 	9.5 A
 at rotary coding switch on switch position 10 	10 A
 at rotary coding switch on switch position 11 	10.5 A
 at rotary coding switch on switch position 12 	11 A
 at rotary coding switch on switch position 13 	11.5 A
 at rotary coding switch on switch position 14 	12 A
 at rotary coding switch on switch position 15 	12.5 A
 at rotary coding switch on switch position 16 	13 A
minimum	5.5 A
djustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	9.5 A
 for inside-delta circuit at rotary coding switch on switch position 2 	10.4 A
for inside-delta circuit at rotary coding switch on switch position 3	11.3 A
for inside-delta circuit at rotary coding switch on switch position 4 for inside delta circuit at rotary coding switch on switch position 4 for inside delta circuit at rotary coding switch on switch position.	12.1 A
for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at rotary coding switch on switch and	13 A 13.9 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch 	14.7 A
position 7 • for inside-delta circuit at rotary coding switch on switch	15.6 A
position 8 • for inside-delta circuit at rotary coding switch on switch	16.5 A
position 9 • for inside-delta circuit at rotary coding switch on switch	17.3 A
position 10for inside-delta circuit at rotary coding switch on switch	18.2 A
for inside-delta circuit at rotary coding switch on switch	19.1 A
for inside-delta circuit at rotary coding switch on switch	19.9 A
 position 13 for inside-delta circuit at rotary coding switch on switch position 14 	20.8 A
for inside-delta circuit at rotary coding switch on switch position 15	21.7 A
for inside-delta circuit at rotary coding switch on switch position 16	22.5 A
at inside-delta circuit minimum	9.5 A
ninimum load [%]	15 %; Relative to smallest settable le
nower loss [W] for rated value of the current at AC	
at 40 °C after startup	16 W
at 50 °C after startup	15 W
at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	210 W
at 50 °C during startup at 50 °C during startup	178 W
at 50 °C during startup at 60 °C during startup	178 W 161 W
	101 11
ontrol circuit/ Control	

control complessations -4 A.C.		
control supply voltage at AC	24.1/	
• at 50 Hz rated value	24 V	
at 60 Hz rated value	24 V	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %	
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %	
control supply voltage frequency	50 60 Hz	
relative negative tolerance of the control supply voltage frequency	-10 %	
relative positive tolerance of the control supply voltage frequency	10 %	
control supply voltage		
at DC rated value	24 V	
relative negative tolerance of the control supply voltage at DC	-20 %	
relative positive tolerance of the control supply voltage at DC	20 %	
control supply current in standby mode rated value	160 mA	
holding current in bypass operation rated value	360 mA	
inrush current by closing the bypass contacts maximum	0.75 A	
inrush current peak at application of control supply voltage maximum	3.3 A	
duration of inrush current peak at application of control supply voltage	12.1 ms	
design of the overvoltage protection	Varistor	
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply	
nputs/ Outputs		
nputs/ Outputs number of digital inputs	1	
<u> </u>	1 3	
number of digital inputs		
number of digital inputs number of digital outputs	3	
number of digital inputs number of digital outputs • not parameterizable	3 2	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value enstallation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value installation/ mounting/ dimensions mounting position fastening method height	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width depth	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 type of connectable conductor cross-sections	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg	
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals	
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 control circuit • for connectable conductor cross-sections	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 2.1 kg	

for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)		
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 mm²), 2x (0.5 1.5 mm²)		
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)		
wire length			
 between soft starter and motor maximum 	800 m		
 at the digital inputs at AC maximum 	100 m		
 at the digital inputs at DC maximum 	1 000 m		
tightening torque			
 for main contacts with screw-type terminals 	2 2.5 N·m		
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	18 22 lbf·in		
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in		
terminals			
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during storage and transport	-40 +80 °C		
environmental category			
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S (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 ge 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	Yes		
 Modbus TCP 	Yes		
• PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA		
— usable for High Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA		
 usable for Standard Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA		
 usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA		
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA		
 usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA		
of the fuse			
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 50 A; Iq = 100 kA		
usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA		
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 50 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
at 200/208 V at 50 °C rated value	2 hp		
• at 220/230 V at 50 °C rated value	3 hp		
• at 460/480 V at 50 °C rated value	·		
	7.5 np 5 hp		
• at 200/208 V at inside-delta circuit at 50 °C rated value	7.5 hp		

General Product Approval		EMC	
Certificates/ approvals			
electromagnetic compatibility	in accordance with IEC 60947-4-2		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
protection class IP on the front according to IEC 60529	IP20		
Safety related data			
contact rating of auxiliary contacts according to UL	R300-B300		
• at 460/480 V at inside-delta circuit at 50 °C rated value	10 hp		
• at 220/230 V at inside-delta circuit at 50 °C rated value	5 hp		



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5213-1AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5213-1AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC04&lang=en

Characteristic: Tripping characteristics, I^2t , Let-through current

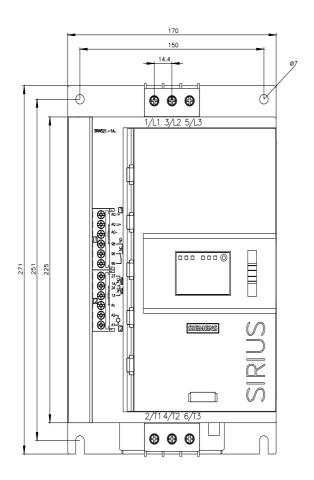
https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04/char

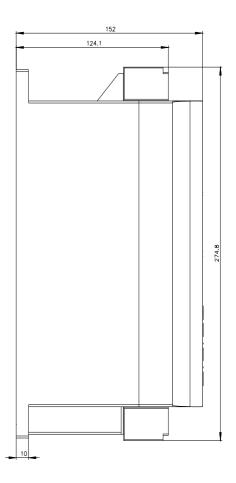
Characteristic: Installation altitude

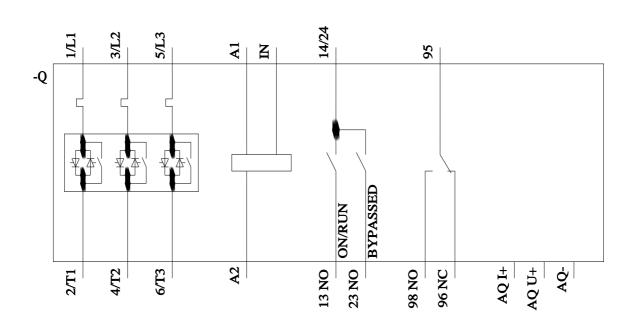
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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