SIEMENS

Data sheet

3RW5247-6AC04



SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC Screw terminals Analog output

product category Hybrid switching devices product designation Soft starter product type designation Soft starter product type designation SRV5980-0H500 of shandard HMI module usable SRV5980-0H500 of shandard HMI module usable SRV5980-0H500 of communication module PROFINET standard SRV5980-0C500 usable SRV5980-0CE00 of communication module EMOPTINET standard SRV5980-0CE00 of communication module EMOPTINET standard SRV5980-0CE00 of communication module EMOPTINET standard SRV5980-0CE00 of circuit breaker usable at 400 V SRV5980-0CE00 of circuit breaker usable at 400 V SRV5980-0CE00 of circuit breaker usable at 400 V SRV5980-0CE00 of circuit breaker usable at 500 V at inside-detta SRV5980-0CE00 of circuit breaker usable at 500 V at inside-detta SRV5980-0CE00 of the gG fuse usable up to 690 V SRV5980-0CE00 of the gG fuse usable up to 690 V SRV5980-0CE00 of the Iga Ruse link for semiconductor protection SRV5980-0CE00 usable up to 690 V SRV5980-0CE00 of th				
product designation Soft starter product type designation 3RW/52 manufacture's article number 3RW/52 • of standard HMI module usable 3RW/5880-0HE00 • of ommunication module PROFINET standard 3RW/5880-0CE00 • of communication module Moduus TCP usable 3RW/5880-0CE00 • of communication module Moduus TCP usable 3RW/5880-0CE00 • of communication module Ethemet/IP 3RW/5880-0CE00 • of circuit breaker usable at 400 V 3RW/5880-0CE00 • of circuit breaker usable at 400 V 3RW/5880-0ACE00 • of circuit breaker usable at 400 V 3RW/5880-0ACE00 • of circuit breaker usable at 400 V 3RW/5880-0ACE00 • of circuit breaker usable at 400 V at inside-delta circuit ut breaker usable at 400 V at inside-delta circuit ut to to 500 V 3RW/5820-7MN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10 • of the gG fuse usable at inside-delta circuit up to 500 V • of the gG fuse usable at inside-delta circuit up to 500 V 3RW/5820-8CH700 • of back-up R fuse link for semiconductor protection usable up to 690 V 2x3NA3365-6; Type of coordination 1. lg = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 30 100 % startup ramp time of soft starter <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS		
product type designation 3RW52 manufacturer's article number 3RW52 of standard HMI module usable 3RW5980-0HS00 of of high feature HMI module usable 3RW5980-0HS00 of communication module PROFINET standard 3RW5980-0CF00 of communication module Modus TCP usable 3RW5980-0CF00 of communication module Modus TCP usable 3RW5980-0CF00 of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of circuit breaker usable at 500 V 2VA3NA365-6; Type of coordination 1. I.g = 65 kA. CLASS 10 of the gG fuse usable up to 690 V 2X3NA3365-6; Type of coordination 1. I.g = 65 kA of the gG fuse usable up to 690 V 2X3NA3365-6; Type of coordination 1. I.g = 65 kA usable up to 690 V 3NE1340-8; Type of coordination 2. I.g = 65 kA usable up to 690	product category	Hybrid switching devices		
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• of communication module Modbus TCP usable 3RW5980-0CT00 • of communication module Ethernet/IP 3RW5980-0CE00 • of circuit breaker usable at 400 V 3RV45920-0CE00 • of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0: Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 400 V at inside-delta circuit 3VA2450-7MN32-0AA0: Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 500 V at inside-delta circuit 3VA2510-6HN32-0AA0: Type of coordination 1. Iq = 65 kA. CLASS 10 • of the gG fuse usable at 500 V at inside-delta circuit up to 500 V 2X3NA3365-6; Type of coordination 1. Iq = 65 kA. CLASS 10 • of the gG fuse usable at inside-delta circuit up to 500 V 3NE1436-2; Type of coordination 1. Iq = 65 kA • of the gG fuse usable at inside-delta circuit up to 500 V 3NE1436-2; Type of coordination 1. Iq = 65 kA • of the gG fuse usable at inside-delta circuit up to 500 V 3NE1436-2; Type of coordination 2. Iq = 65 kA • of the gG fuse usable at inside-delta circuit up to 690 V 3NE1436-2; Type of coordination 2. Iq = 65 kA • of storter 3NE1436-2; Type of coordination 2. Iq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE1436-2; Type of coordination 2. Iq = 65 kA • of advact P fuse Time of starter 0 20 s • current limiting value [%] adjustable		<u>3RW5980-0CS00</u>		
• of communication module Modbus RTU usable 3RW5980-0CR00 • of circuit breaker usable at 400 V 3VA2450-7MN32-0AA0; Type of coordination 1. lq = 65 kA, CLASS 10 • of circuit breaker usable at 400 V at inside-delta circuit 3VA2450-7MN32-0AA0; Type of coordination 1. lq = 65 kA, CLASS 10 • of circuit breaker usable at 400 V at inside-delta circuit 3VA2510-6HN32-0AA0; Type of coordination 1. lq = 65 kA, CLASS 10 • of circuit breaker usable at 500 V 3VA2510-6HN32-0AA0; Type of coordination 1. lq = 65 kA, CLASS 10 • of circuit breaker usable at 500 V at inside-delta circuit 3VA2510-6HN32-0AA0; Type of coordination 1. lq = 65 kA, CLASS 10 • of the gG fuse usable up to 690 V 2x3NA3365-6; Type of coordination 1. lq = 65 kA • of full range R fuse link for semiconductor protection usable up to 690 V 3NE1438-2; Type of coordination 2. lq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. lq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. lq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. lq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. lq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE 1438-2; Type	 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>		
• of communication module Ethernet/IP3RW5980-0CE00• of circuit breaker usable at 400 V3VA2450-7MN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of circuit breaker usable at 500 V3VA2450-7MN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of circuit breaker usable at 400 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of circuit breaker usable at 500 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of the gG fuse usable at 500 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of the gG fuse usable at inside-delta circuit up to 500 V3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA• of the gG fuse usable at inside-delta circuit up to 500 V3NE1436-6; Type of coordination 1. lg = 65 kA• of the gG fuse usable at inside-delta circuit up to 500 V3NE1436-2; Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of targe [%]30 100 %• startup ramp time of soft starter • CE marking • UL approval0 20 s• CErmarking • UL approvalYes• CE marking • UL approvalYes• CSA approvalYes• HMI-Standard • HMI-StandardYes• HMI-Figh FeatureYes• Induct featur	 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>		
• of circuit breaker usable at 400 V3VA2450-7MN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10• of circuit breaker usable at 500 V3VA2450-7MN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10• of circuit breaker usable at 400 V at inside-delta circuit3VA2450-7MN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10• of circuit breaker usable at 500 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10• of the gG fuse usable at 500 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10• of the gG fuse usable at inside-delta circuit up to 500 V3VA365-6; Type of coordination 1. lq = 65 kA• of the gG fuse usable at inside-delta circuit up to s00 V3NE1436-2; Type of coordination 1. lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2. lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of tartup ramp time of soft starter • Circuit breaker of suitability0 20 s• certificate of suitabilityYes• CE marking • UL approvalYes• CSA approvalYes• CAA approvalYes• HMI-Standard • HMI-High FeatureYes• InHI-Standard • HMI-High FeatureYes• InHIP of controlled phases3	 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>		
• of circuit breaker usable at 500 V3VA2450-7MN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of circuit breaker usable at 400 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of circuit breaker usable at 500 V at inside-delta circuit3VA2510-6HN32-0AA0: Type of coordination 1. lg = 65 kA. CLASS 10• of the gG fuse usable up to 690 V2x3NA3365-6; Type of coordination 1. lg = 65 kA• of the gG fuse usable at inside-delta circuit up to 500 V3NE340-6HN32-0AA0: Type of coordination 1. lg = 65 kA• of the gG fuse usable at inside-delta circuit up to solo V3NE340-8: Type of coordination 1. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE340-8: Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE340-8: Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE340-8: Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE340-8: Type of coordination 2. lg = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V30 100 %• of truct limiting value [%] adjustable30 100 %• startup ramp time of soft starter • O 20 s0 20 s• current limiting value [%] adjustable30 700 %• CE marking • UL approval • CEs approvalYes• CSA approval • HMI-High FeatureYes• HMI-High Feature • HMM-High FeatureYes• number of controlled phases3<	 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>		
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circuitCircuit• of the gG fuse usable up to 690 V2x3NA3365-6; Type of coordination 1, lq = 65 kA• of the gG fuse usable at inside-delta circuit up to 500 V2x3NA3365-6; Type of coordination 1, lq = 65 kA• of full range R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE 340-8; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE 340-8; Type of coordination 2, lq = 65 kA• cordination voltage [%] • of soft starter • CE marking • UL approval • CE marking • UL approval • HMI-Standard • HMI-Standard • HMI-High Feature • Product feature integrated bypass contact system • PresYes <th></th> <td><u>3VA2510-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10</u></td>		<u>3VA2510-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10</u>		
• of the gG fuse usable at inside-delta circuit up to 500 V2x3NA3365-6; Type of coordination 1, lq = 65 kA• of full range R fuse link for semiconductor protection usable up to 690 V3NE1436-2; Type of coordination 2, lq = 65 kA• of back-up R fuse link for semiconductor protection usable up to 690 V3NE3340-8; Type of coordination 2, lq = 65 kAGeneral technical data3NE3340-8; Type of coordination 2, lq = 65 kAstarting voltage [%]30 100 %storping voltage [%]50 50 %start-up ramp time of soft starter0 20 scurrent limiting value [%] adjustable130 700 %certificate of suitabilityYes• CE marking • UL approval • CSA approvalYesproduct component is supported • HMI-Standard • HMI-High FeatureYesproduct feature integrated bypass contact system number of controlled phasesYes333		3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
500 V • of full range R fuse link for semiconductor protection usable up to 690 V 3NE1436-2: Type of coordination 2. lg = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. lg = 65 kA General technical data 3NE1436-2: Type of coordination 2. lg = 65 kA starting voltage [%] 30 100 % stopping voltage [%] 50 50 % startup ramp time of soft starter 0 20 s current limiting value [%] adjustable 130 700 % certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes • HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3	 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
usable up to 690 V and the transmission of transmissing transmission of transmissicon of transmi	•	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
usable up to 690 V General technical data starting voltage [%] 30 100 % stopping voltage [%] 50 50 % start-up ramp time of soft starter 0 20 s current limiting value [%] adjustable 130 700 % certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes product component is supported Yes • HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3		<u>3NE1436-2; Type of coordination 2. Iq = 65 kA</u>		
starting voltage [%]30 100 %stopping voltage [%]50 50 %start-up ramp time of soft starter0 20 scurrent limiting value [%] adjustable130 700 %certificate of suitabilityYes• CE markingYes• UL approvalYes• UL approvalYes• CSA approvalYes• HMI-StandardYes• HMI-High FeatureYes• product feature integrated bypass contact systemYesnumber of controlled phases3		<u>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>		
stopping voltage [%]50 50 %start-up ramp time of soft starter0 20 scurrent limiting value [%] adjustable130 700 %certificate of suitabilityYes• CE markingYes• UL approvalYes• CSA approvalYesproduct component is supportedYes• HMI-StandardYes• HMI-High FeatureYesproduct feature integrated bypass contact systemYesaumber of controlled phases3	General technical data			
start-up ramp time of soft starter0 20 scurrent limiting value [%] adjustable130 700 %certificate of suitability• CE markingYes• UL approvalYes• CSA approvalYesproduct component is supported• HMI-StandardYes• HMI-High FeatureYesproduct feature integrated bypass contact systemYes33	starting voltage [%]	30 100 %		
current limiting value [%] adjustable130 700 %certificate of suitability• CE markingYes• UL approvalYes• CSA approvalYes• CSA approvalYes• HMI-StandardYes• HMI-High FeatureYes• product feature integrated bypass contact systemYesaumber of controlled phases3	stopping voltage [%]	50 50 %		
certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes • CSA approval Yes • CSA approval Yes • HMI-Standard Yes • HMI-High Feature Yes • Product feature integrated bypass contact system Yes number of controlled phases 3	start-up ramp time of soft starter	0 20 s		
• CE markingYes• UL approvalYes• CSA approvalYes• CSA approvalYes• HMI-StandardYes• HMI-High FeatureYes• HMI-High FeatureYes• Inumber of controlled phases3	current limiting value [%] adjustable	130 700 %		
• UL approvalYes• CSA approvalYesproduct component is supportedYes• HMI-StandardYes• HMI-High FeatureYesproduct feature integrated bypass contact systemYesnumber of controlled phases3	certificate of suitability			
• CSA approval Yes product component is supported ////////////////////////////////////	CE marking	Yes		
product component is supported Yes • HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3	• UL approval	Yes		
• HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3	CSA approval	Yes		
• HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3	product component is supported			
product feature integrated bypass contact system Yes number of controlled phases 3		Yes		
product feature integrated bypass contact system Yes number of controlled phases 3	HMI-High Feature	Yes		
number of controlled phases 3		Yes		
•	· · · · · ·	3		
	trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2		

buffering time in the event of power failure 100 ms • for main current 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 16 600 V service factor 1 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 kV • 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 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration category acc. to IEC 60947-4-2 Q Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-down (soft stop) Yes • soft Torque Yes
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• evaluation of thermistor motor protectionNo• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories
• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes, By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories
• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories
• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories
 remote reset communication function operating measured value display Yes; Only in conjunction with special accessories
 communication function operating measured value display Yes; Only in conjunction with special accessories
operating measured value display Yes; Only in conjunction with special accessories
error logbook Yes; Only in conjunction with special accessories
via software parameterizable No
via software configurable Yes
PROFlenergy Yes; in connection with the PROFINET Standard communication module
• firmware update Yes
removable terminal for control circuit Yes
torque control No
analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
HMI)
Power Electronics
operational current
• at 40 °C rated value 470 A
• at 50 °C rated value 416 A
• at 60 °C rated value 380 A
operational current at inside-delta circuit
• at 40 °C rated value 814 A
• at 50 °C rated value 721 A
at 60 °C rated value 658 A
operating voltage
• rated value 200 480 V
• at inside-delta circuit rated value 200 480 V
relative negative tolerance of the operating voltage -15 %
relative positive tolerance of the operating voltage 10 %
relative negative tolerance of the operating voltage at inside-delta circuit
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 132 kW

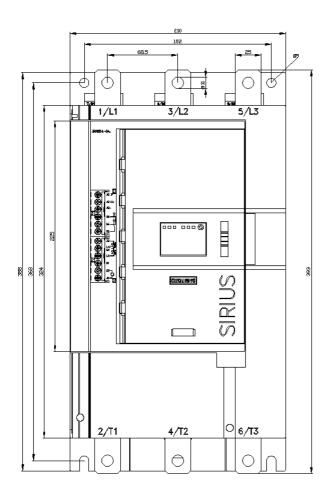
• at 230 V at inside delte airquit et 40 °C reted velve	250 kW
• at 230 V at inside-delta circuit at 40 °C rated value	250 kW
• at 400 V at 40 °C rated value	250 kW
at 400 V at inside-delta circuit at 40 °C rated value	400 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 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	200 A
at rotary coding switch on switch position 2	218 A
at rotary coding switch on switch position 3	236 A
at rotary coding switch on switch position 4	254 A
 at rotary coding switch on switch position 5 	272 A
• at rotary coding switch on switch position 6	290 A
at rotary coding switch on switch position 7	308 A
• at rotary coding switch on switch position 8	326 A
at rotary coding switch on switch position 9	344 A
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	362 A
 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 	380 A
at rotary coding switch on switch position 12	398 A
 at rotary coding switch on switch position 13 	416 A
 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 	434 A 452 A
 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 	452 A 470 A
at rotary coding switch on switch position 16	
minimum adjustable motor current	200 A
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
 for inside-delta circuit at rotary coding switch on switch position 6 	502 A
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A
 for inside-delta circuit at rotary coding switch on switch position 8 	565 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside dota circuit at rotary coding switch on 	596 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	627 A 658 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	689 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	721 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	752 A
switch position 14for inside-delta circuit at rotary coding switch on	783 A
switch position 15 • for inside-delta circuit at rotary coding switch on	814 A
switch position 16	246.4
at inside-delta circuit minimum	346 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	152 \\
• at 40 °C after startup	153 W
• at 50 °C after startup	137 W 126 W
• at 60 °C after startup	120 W

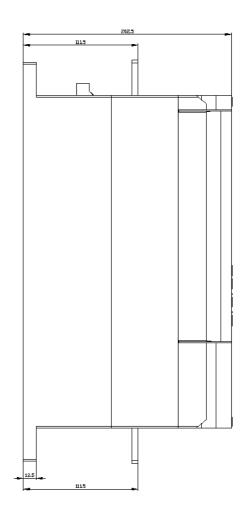
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	7 903 W
• at 50 °C during startup	6 604 W
• at 60 °C during startup	5 794 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated 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	10 %
voltage frequency	
control supply voltage	0414
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	470 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	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
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
fastening method	surface +/- 22.5° tiltable to the front and back
	393 mm
height	
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	10 mm
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
• at the side	5 mm

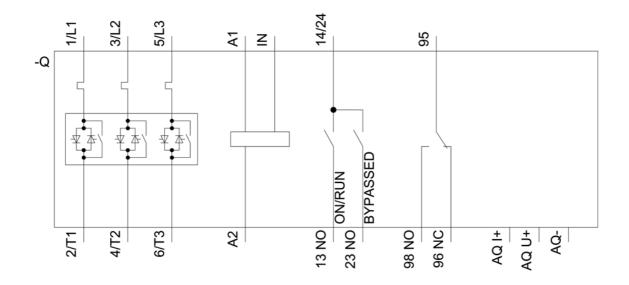
weight without packaging	9.9 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	busbar connection		
for control circuit	screw-type terminals		
width of connection bar maximum	45 mm		
type of connectable conductor cross-sections			
for DIN cable lug for main contacts stranded	2x (50 240 mm²)		
 for DIN cable lug for main contacts finely stranded 	2x (70 240 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 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
processing			
at 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	14 24 N·m		
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 	14 24 N·m 0.8 1.2 N·m		
• for auxiliary and control contacts with screw-type terminals	V.U 1.2 IN III		
tightening torque [lbf·in]			
for main contacts with screw-type terminals	124 210 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 acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
 during transport acc. 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 the fuse			
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA		
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA		
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 kA		
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	150 hp		
• at 220/230 V at 50 °C rated value	150 hp		
• at 460/480 V at 50 °C rated value	350 hp		
• at 200/208 V at inside-delta circuit at 50 °C rated	250 hp		

value					
 at 220/230 V a value 	t inside-delta circuit at 50	°C rated 2	250 hp		
● at 460/480 V a value	t inside-delta circuit at 50	°C rated 6	600 hp		
contact rating of au	xiliary contacts accordi	ng to UL	R300-B300		
Safety related data					
•	on the front acc. to IEC		P00; IP20 with cover		
touch protection on	the front acc. to IEC 60		inger-safe, for vertical cont		cover
electromagnetic co	mpatibility	i	n accordance with IEC 609	947-4-2	
Certificates/ approva	ls				
General Product A	pproval			EMC	Declaration of Conformity
			EHC	RCM	CE EG-Konf.
Test Certificates	Marine / Shipping				
<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	Lloyd's Register urs	PRS	DNV-GL EtwsLEDBOR
other					
Confirmation					

Further information
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=3RW5247-6AC04
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6AC04
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-6AC04⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6AC04/char
Characteristic: Installation altitude
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-6AC04&objecttype=14&gridview=view1
Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917







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