SIEMENS

Data sheet

product brand name



SIRIUS soft starter 200-480 V 250 A, 110-250 V AC spring-type terminals Thermistor input

3RW5244-2TC14



h			
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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; 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 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA		
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA		
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1331-0; Type of coordination 2, Iq = 65 kA</u>		
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3336: Type of coordination 2, Iq = 65 kA</u>		
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		
buffering time in the event of power failure			

SIRIUS

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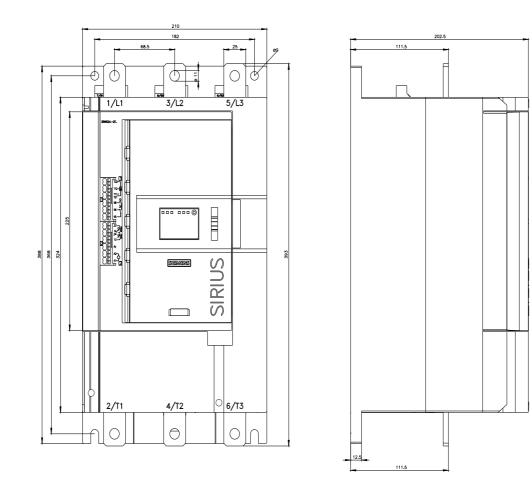
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• ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • untrinsic device protection Yes • intrinsic device protection Yes • motor overload protection Yes • evaluation of thermistor motor protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection Yes • inside-detta circuit Yes • auto-RESET Yes • emotor reset Yes • communication function Yes • operating measured value display Yes • via software configurable Yes • via software configurable Yes • removeb terminal for control circuit Yes • indiver control Yes • removeb terminal for control circuit Yes • removeb terminal for control circuit Yes • removeb terminal for control circuit Yes • torque control analog output • operation (C rated value 200 A • at 60 °C rated value 200 A • at 60 °C rated value 433 A • at 60 °C rated value 433 A <tre control<="" for="" ovable="" td="" terminal=""> 433 A<!--</th--><th></th><th>Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7</th></tre>		Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7		
• ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • untrinsic device protection Yes • intrinsic device protection Yes • motor overload protection Yes • evaluation of thermistor motor protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection Yes • inside-defta circuit Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • operating measured value display Yes: Only in conjunction with special accessories • error logbook Yes; in connection with the PROFINET Standard communication module • via software configurable Yes • indivare configurable Yes • error value Yes • diago uptit Yes • via software configurable Yes • analog output Yes • orgentional current at 40 °C rated value • at 60 °C rated value 200 A • at 60 °C rated va	product function			
• ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Kikon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • error logbook Yes; Not in consult on with the PROFINET Standard communication module • firmware update Yes • analog output Yes • fordivare parameterizable No • analog output Yes • torque control No • analog output No • analog output No • at 60 °C rated value 250 A • at 60 °C rated value 200 A • at 60 °C rated value 331 A • at 60 °C rated value 346 A • at 60 °C rated value 346 A <	-	Yes		
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• intrinsic device protection Yes • motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • communication function Yes; By turning off the control supply voltage • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • infimware update Yes • removable terminal for control circuit Yes • firmware update Yes • orgue control No • analog output Yes Power Electronics 220 A • at 60 °C rated value 200 A • at 60 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 340 A • at 60 °C rated value 340 A • at	-	Yes		
• motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes • emotie reset Yes; Day to reliable of the control supply voltage • communication function Yes; Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • orated value 250 A • at 40 °C rated value 250 A • at 60 °C rated value 200 A operating output Yes • at 40 °C rated value 381 A • at 50 °C rated value 381 A • at 60 °C rated value 381 A </th <th></th> <th>Yes</th>		Yes		
• inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes; By turning off the control supply voltage • communication function Yes; Conly in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • forque control No • analog output No Power Electronics 250 A • at 60 °C rated value 250 A • at 60 °C rated value 200 A • operating lourent at inside-delta circuit 433 A • at 60 °C rated value 346 A • operating voltage 436 A • operating voltage 466 A • crated value 200 480 V • at los iC rated value 200 480 V • at los iC rated value 200 480 V • at los ice rated value 200 480 V • at los ice rated value 200 480 V • at los ice rated value 200 480 V • at los ice rated value 200 480 V • at los ice rated value 200 480 V • at los ice rated value	-			
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• removable terminal for control circuitYes• torque controlNo• analog outputNoPower Elactronics• at 40 °C rated value250 A• at 40 °C rated value220 A• at 60 °C rated value200 A• at 40 °C rated value381 A• at 60 °C rated value346 A• at 60 °C rated value200 480 V• at forier rated value200 480 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage10 %	PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
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operational current at inside-delta circuit• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	• at 50 °C rated value	220 A		
• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	● at 60 °C rated value	200 A		
• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	operational current at inside-delta circuit			
• at 60 °C rated value 346 A operating voltage 200 480 V • 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 %	• at 40 °C rated value	433 A		
operating voltage 200 480 V • 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 %	• at 50 °C rated value	381 A		
• 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 %	• at 60 °C rated value	346 A		
● at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	operating voltage			
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %	rated value	200 480 V		
relative positive tolerance of the operating voltage 10 %	 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 -15 %	relative negative tolerance of the operating voltage at	-15 %		

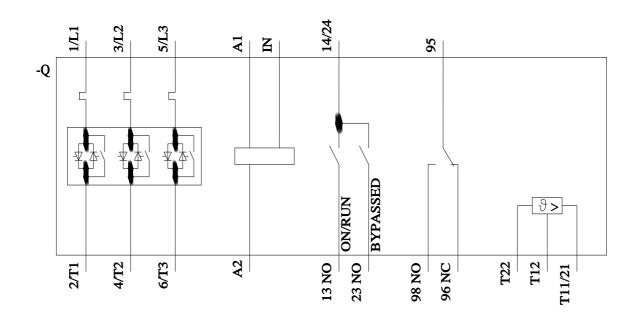
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inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	75 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	132 kW
• at 400 V at 40 °C rated value	132 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	250 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 	100 A
 at rotary coding switch on switch position 2 	110 A
 at rotary coding switch on switch position 3 	120 A
 at rotary coding switch on switch position 4 	130 A
 at rotary coding switch on switch position 5 	140 A
 at rotary coding switch on switch position 6 	150 A
 at rotary coding switch on switch position 7 	160 A
 at rotary coding switch on switch position 8 	170 A
 at rotary coding switch on switch position 9 	180 A
 at rotary coding switch on switch position 10 	190 A
 at rotary coding switch on switch position 11 	200 A
 at rotary coding switch on switch position 12 	210 A
 at rotary coding switch on switch position 13 	220 A
 at rotary coding switch on switch position 14 	230 A
 at rotary coding switch on switch position 15 	240 A
 at rotary coding switch on switch position 16 	250 A
• minimum	100 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	173 A
 for inside-delta circuit at rotary coding switch on switch position 2 	191 A
 for inside-delta circuit at rotary coding switch on switch position 3 	208 A
 for inside-delta circuit at rotary coding switch on switch position 4 	225 A
for inside-delta circuit at rotary coding switch on switch position 5	242 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rates, coding switch on switch 	260 A 277 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch 	294 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	312 A
position 9for inside-delta circuit at rotary coding switch on switch	329 A
 position 10 for inside-delta circuit at rotary coding switch on switch 	346 A
 position 11 for inside-delta circuit at rotary coding switch on switch position 12 	364 A
 for inside-delta circuit at rotary coding switch on switch position 13 	381 A
 for inside-delta circuit at rotary coding switch on switch position 14 	398 A
 for inside-delta circuit at rotary coding switch on switch position 15 	416 A
for inside-delta circuit at rotary coding switch on switch position 16	433 A
at inside-delta circuit minimum	173 A
minimum load [%] power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le

	07.14		
• at 40 °C after startup	87 W		
• at 50 °C after startup	78 W		
• at 60 °C after startup	72 W		
power loss [W] at AC at current limitation 350 %			
 at 40 °C during startup 	3 818 W		
 at 50 °C during startup 	3 188 W		
 at 60 °C during startup 	2 799 W		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz	110 250 V		
• at 60 Hz	110 250 V		
relative negative tolerance of the control supply voltage at	-15 %		
AC at 50 Hz			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %		
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %		
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %		
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 current in standby mode rated value	30 mA		
holding current in bypass operation rated value	100 mA		
inrush current by closing the bypass contacts maximum	2.2 A		
inrush current peak at application of control supply voltage maximum	12.2 A		
duration of inrush current peak at application of control supply voltage	2.2 ms		
design of the overvoltage protection	Varistor		
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply		
Inputs/ Outputs			
	1		
number of digital inputs	1		
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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)		
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	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) 0		
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) 0 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) 0		
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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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 Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with 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 Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
number of digital 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 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 Installation/ mounting/ dimensions mounting position fastening method height width	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 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 Installation/ mounting/ dimensions mounting position fastening method height width depth	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 Installation/ 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) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 10 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 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 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 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 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 9 m 9.9 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • 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) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 9 m 9.9 kg busbar connection		
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 width depth required spacing with side-by-side mounting • forwards • backwards • at the side weight without packaging Connections/ Terminals type of electrical connection	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 9 m 9.9 kg		

wire length for thermistor connection			
 with conductor cross-section = 0.5 mm² maximum 	50 m		
 with conductor cross-section = 1.5 mm² maximum 	150 m		
 with conductor cross-section = 2.5 mm² maximum 	250 m		
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 	2x (0.25 1.5 mm²)		
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)		
 for AWG cables for control circuit solid 	2x (24 16)		
 for AWG cables for control circuit finely stranded with 	2x (24 16)		
core end processing			
wire length			
 between soft starter and motor maximum 	800 m		
at the digital inputs at AC maximum	100 m		
tightening torque			
 for main contacts with screw-type terminals 	14 24 N·m		
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]	104 - 010 lbf in		
 for main contacts with screw-type terminals for auxiliary and control contacts with acrow type 	124 210 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 operation or during storage and transport	-40 +80 °C		
environmental category			
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
	(sand must not get into the devices), 3M6		
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get		
	inside the devices), 1M4		
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
Environmental footprint			
Siemens Eco Profile (SEP)	Siemens EcoTech		
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: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA		
- 60/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA		
— at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA		
— at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
of the fuse			
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 800 A; Iq = 18 kA		
— usable for High Faults up to 575/600 V according to			
UL	Type: Class J / L, max. 800 A; Iq = 100 kA		
UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 800 A; lq = 100 kA Type: Class J / L, max. 800 A; lq = 18 kA		

operating power [hp] for 3-phase	motors			
• at 200/208 V at 50 °C rated v	alue	60 hp		
• at 220/230 V at 50 °C rated v	alue	75 hp		
• at 460/480 V at 50 °C rated value		150 hp		
• at 200/208 V at inside-delta c	ircuit at 50 °C rated value	125 hp		
• at 220/230 V at inside-delta c	ircuit at 50 °C rated value	150 hp		
• at 460/480 V at inside-delta c		300 hp		
contact rating of auxiliary contact		R300-B300		
Electrical Safety				
protection class IP on the front ad	ccording to IEC 60529	IP00; IP20 with cover		
touch protection on the front acc			ntact from the front with co	ver
opprovals Certificates	g			
General Product Approval				
Confir	EG-Konf.		UK CA	
General Product Approval EMV		Test Certificates	Marine / Shipping	
		<u>Type Test Certific</u> ates/Test Repor		BUREAU VERITAS
Marine / Shipping	other	Environment		
Lloyds Register Uts	Confirmation	on Siemens EcoTech	EPD	Environmental Con- firmations
urther information				
Information on the packaging https://support.industry.siemens.com Information- and Downloadcenter https://www.siemens.com/ic10 Industry Mall (Online ordering sys https://mall.industry.siemens.com/m Cax online generator http://support.automation.siemens.com Service&Support (Manuals, Certif https://support.industry.siemens.com Image database (product images, http://www.automation.siemens.com Characteristic: Tripping charactee https://support.industry.siemens.com	r (Catalogs, Brochures,) stem) hall/en/en/Catalog/product?mlft com/WW/CAXorder/default.asp ficates, Characteristics, FAQ n/cs/ww/en/ps/3RW5244-2TC1 , 2D dimension drawings, 3D n/bilddb/cax_de.aspx?mlfb=3R	x?lang=en&mlfb=3RW5244-2 s,) 14 models, device circuit diag W5244-2TC14⟨=en nt)





4/19/2024 🖸

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