SIEMENS

Data sheet

3RW5244-2TC14



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

and wet have discuss		
product brand name	SIRIUS	
product category	Hybrid switching devices	
product designation	Soft starter	
product type designation manufacturer's article number	3RW52	
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	
	Yes	
 is supported HMI-Standard 		
 is supported HMI-Standard is supported HMI-High Feature 	Yes	
	Yes Yes	



trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2		
buffering time in the event of power failure			
 for main current circuit 	100 ms		
for control circuit	100 ms		
insulation voltage rated value	600 V		
degree of pollution	3, acc. to IEC 60947-4-2		
impulse voltage rated value	6 kV		
blocking voltage of the thyristor maximum	1 600 V		
service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
 between main and auxiliary circuit 	600 V		
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz		
utilization category according to IEC 60947-4-2	AC 53a		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	02/15/2018		
product function			
 ramp-up (soft starting) 	Yes		
ramp-down (soft stop)	Yes		
Soft Torque	Yes		
 adjustable current limitation 	Yes		
• pump ramp down	Yes		
intrinsic device protection	Yes		
 motor overload protection 	Yes; 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		
remote reset	Yes; By turning off the control supply voltage		
 communication function 	Yes		
 operating measured value display 	Yes; Only in conjunction with special accessories		
error logbook	Yes; Only in conjunction with special accessories		
 via software parameterizable 	No		
 via software configurable 	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
firmware update	Yes		
 removable terminal for control circuit 	Yes		
torque control	No		
 analog output 	No		
Power Electronics			
operational current			
• at 40 °C rated value	250 A		
• at 50 °C rated value	220 A		
• at 60 °C rated value	200 A		
operational current at inside-delta circuit			
• at 40 °C rated value	433 A		
• at 50 °C rated value	381 A		
• at 60 °C rated value	346 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	-15 %		
relative positive tolerance of the operating voltage at inside-delta circuit	10 %		
operating power for 3-phase motors			

	76 1444
• 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	100 A
 at rotary coding switch on switch position 1 at ratery coding switch on switch position 2 	100 A 110 A
 at rotary coding switch on switch position 2 at ratery coding switch on switch position 2 	
 at rotary coding switch on switch position 3 at ratery coding switch on switch position 4 	120 A 130 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	140 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	150 A
	160 A
 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 	170 A
	180 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	180 A 190 A
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	200 A
 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 	210 A
 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 	210 A 220 A
 at rotary coding switch on switch position 14 	230 A
 at rotary coding switch on switch position 14 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 	260 A
 for inside-delta circuit at rotary coding switch on switch position 7 	277 A
 for inside-delta circuit at rotary coding switch on switch position 8 	294 A
• for inside-delta circuit at rotary coding switch on switch position 9	312 A
• for inside-delta circuit at rotary coding switch on switch position 10	329 A
• for inside-delta circuit at rotary coding switch on switch position 11	346 A
• 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 [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	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	3 818 W		
• at 60 °C during startup	3 188 W 2 799 W		
Control circuit/ Control	2 7 99 W		
	AC		
type of voltage of the control supply voltage control supply voltage at AC	AC		
• at 50 Hz	110 250 V		
• at 60 Hz	110 250 V		
relative negative tolerance of the control supply	-15 %		
voltage at 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		
locked-rotor current at close of bypass contact 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		
design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is		
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is		
Inputs/ Outputs	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	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 number of digital outputs	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 number of digital outputs o not parameterizable	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 number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	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 number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs o at AC-15 at 250 V rated value	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A		
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	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 number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A		
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs output	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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 5 mm		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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 5 mm		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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 5 mm 9.9 kg		
Inputs/ Outputs 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	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 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 5 mm		

wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • for DN cable lug for main contacts stranded 2x (50 240 mm²) • for control circuit finely stranded with core end processing 2x (02 15 mm²) • for control circuit finely stranded with core end processing 2x (02 15 mm²) • for control circuit finely stranded with core end processing 2x (22 15 mm²) • for control circuit finely stranded with core end processing 2x (22 15 mm²) • for auxiliary and control circuit finely stranded with core end processing 2x (24 16) • for auxiliary and control circuit finely stranded with core end processing 14 24 N m • for auxiliary and control contacts with screw-type terminals 60 m • for auxiliary and control contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog amblent temperature 4 during storage according to IEC 60721 3K8 (no ize formation, only accasional condensation), 3C3 (no salt mat), 3S2 (sand must not accisend condensation), 3C3 (no salt mat), 3S2 (sand must not accisend accidensation), 3C3 (no salt mat), 3S2 (sand must not accisend condensation), 3C3 (no salt mat), 3S2 (sand must not accisend condensation), 3C3 (no salt mat), 3S2 (sand must not accisend condensation), 3C3 (no salt mat), 3S2 (width of connection bar maximum	45 mm		
 with conductor cross-section = 0.5 mm⁺ maximum with conductor cross-section = 1.5 mm⁺ maximum with conductor cross-section = 2.5 mm⁺ maximum S0 m with conductor cross-sections for DIN cable lug for main contacts stranded Xr (70 240 mm⁺) Xr (10 15 mm⁺) Xr (10 10 15 mm⁺) Xr (10 15 mm⁺) Xr (
 with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 20 m 20 mm² 20 m² 20 m 20 m² 20 m² 20 m 20 m² 21 m² <	-	50 m		
• with conductor cross-section 250 m Ype of connectable up for main contacts stranded 2x (50 240 mm²) • for DN cable lug for main contacts stranded 2x (70 240 mm²) Ype of connectable conductor cross-sections 2x (70 240 mm²) • for control circut solid 2x (0.25 1.5 mm²) • for control circut solid 2x (0.25 1.5 mm²) • at AWC cables for control circut solid 2x (0.25 1.5 mm²) • at AWC cables for control circut solid 2x (24 16) • at AWC cables for control circut solid 2x (24 16) • at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • for auxiliary and control contacts with screw-type terminals 14 24 Nm • for auxiliary and control contacts with screw-type terminals 124 210 lbf in • for auxiliary and control contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage according to IEC 60721 242, 201, 213, 244, 243, 243, 243, 243, 243, 243, 24				
Type of connectable conductor cross-sections 2x (50 240 mm ²) 4 for DIN cable lug for main contacts stranded 2x (70 240 mm ²) 4 for DIN cable lug for main contacts stranded 2x (70 240 mm ²) 4 for DIN cable lug for main contacts stranded 2x (70 240 mm ²) 6 for control circuit solid 2x (25 1.5 mm ²) 9 for control circuit solid 2x (22 16) • at AWG cables for control circuit solid 2x (24 16) • at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • for auxilary and control contacts with screw-type terminals 14 24 Nm • for auxilary and control contacts with screw-type terminals 14 24 Nm • for auxilary and control contacts with screw-type terminals 14 24 Nm • for auxilary and control contacts with screw-type terminals 7 10.3 lbf in • for rauxilary and control contacts with screw-type 25 460 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during storage according to IEC 60721 3KG (no loe formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1MA • during storage accordi				
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 2x (70 240 mm²) for control circuit solid for control circuit solid for control circuit solid at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at AWG cables for control circuit finely stranded with core end processing at the diplat inputs at AC maximum at the diplat inputs end with screw-type terminals for auxiliary and control contacts with screw-type for auxiliary and control contac		200 m		
		$2x(50 - 240 \text{ mm}^2)$		
type of connectable conductor cross-sections 2x (0.25 1.5 mm²) i for control circuit solid 2x (0.25 1.5 mm²) i at AWG cables for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) i at AWG cables for control circuit finely stranded with core end processing 2x (24 16) i at AWG cables for control circuit finely stranded with core end processing 2x (24 16) i at AWG cables for control circuit finely stranded with core end processing 2x (24 16) i at AWG cables for control circuit finely stranded with core end processing 2x (24 16) i at the digital inputs at AC maximum 800 m i at the digital inputs at AC maximum 100 m i for main contacts with screw-type terminals 14 24 N/m i for rauxillary and control contacts with screw-type terminals 7 10.3 lbf in i for auxillary and control contacts with screw-type 7 10.3 lbf in i mabient temperature 6 000 m; Derating as of 1000 m; see catalog ambient temperature 6 uring operation • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 352 (sand must not qet into the devices), 3M6 • during storage according to IEC 60721 2K2, 2K1, 2S1, 2M2 (max, fall height 0.3 m) <t< td=""><td></td><td></td></t<>				
for control circuit solid for control circuit finely stranded with core end processing et at AWC cables for control circuit finely stranded with core end processing wire length et device solid starter and motor maximum et the digital inputs at AC maximum to main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control to contacts with screw-type terminals during operation aution of the device sol, 140 °C or above during operation during operation during operation during storage according to IEC 60721 dur				
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing • wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m • tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • Z2, 221, 221, 221, 221, 221, 223, 221, 223, 223		$2x (0.25 \pm 1.5 \text{ mm}^2)$		
processing 2x (24 16) e at AWG cables for control circuit solid 2x (24 16) core end processing 2x (24 16) 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 terminals 124 210 lbf-in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf-in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient conditions 40 +80 °C environmental category • during storage and transport -40 +80 °C environmental category • during transport according to IEC 60721 2K2, 221, 282 (2mx, 181 height 0.3 m) • during transport according to IEC 60721 2K2, 221, 282 (2mx, 181 height 0.3 m) • BOC PINET standard Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus RTD Yes • Modbus RTD Yes • DROFINET standard Yes • Standard Faults at 460/480 V according to UL </td <td></td> <td></td>				
• et XWG cables for control circuit finely stranded with core end processing 2x (24 16) • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • for auxilary and control contacts with screw-type terminals 14 24 Nm • for auxilary and control contacts with screw-type terminals 12 210 lbf in • for auxilary and control contacts with screw-type terminals 12 210 lbf in • for auxilary and control contacts with screw-type terminals 12 210 lbf in • for auxiliary and control contacts with screw-type terminals 12 210 lbf in • for auxiliary and control contacts with screw-type terminals 12 210 lbf in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient tomporature -25 +60 "C; Please observe derating at temperatures of 40 "C or above • during operation -25 +60 "C; Please observe derating at temperatures of 40 "C or above • during transport according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not, alt height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, Ial height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, Ial height 0.3 m) • EtherNe		2x (0.25 1.5 mm²)		
core end processing wire length • between soft starter and motor maximum • between soft starter and motor maximum • tor main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference cornunication module is supported • PROFINET standard Yes • Emerket/P Yes • Modubus TCP Yes • Modubus TCP Yes • Of circuit broaker Yes • of circuit broaker Yes	 at AWG cables for control circuit solid 	2x (24 16)		
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 for auxiliary and control contacts with screw-type for main contacts with screw-type terminals for maxiliary and control contacts with screw-type for main contacts with screw-type for main contacts with screw-type for maxiliary and control contacts with screw-type for maxingata corording to IEC 60721 	 at AWG cables for control circuit finely stranded with 	2x (24 16)		
• between soft starter and motor maximum • at the digital inputs at AC maximum 100 m fightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals for auxiliary and control contacts with screw-type installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Communication module is supported • PROFINET standard • Ever Net/PlP • Yes • Modbus RTU • usable for Standard Faults at 460/480 V according to UL • usable for High Faults at 460/480 V according • ULCSA ratings	core end processing			
• at the digital inputs at AC maximum 100 m tightening torque • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type 0.81.2 N m tightening torque [bf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 124 210 lbf·in • for auxiliary and control contacts with screw-type 7 10.3 lbf·in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient conditions 40° °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EMC emitted interference ac to IEC 60947-4-2; Class A Communication module is supported Yes • PROFINET standard Yes • Modbus RTD Yes • Modbus RTD Yes • Modbus RTD Yes <td>wire length</td> <td></td>	wire length			
tightening torque • for main contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 0.8 1.2 N·m tightening torque [Ubf-in] • of anxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals 124 210 lbf-in • for auxiliary and control contacts with screw-type terminals 124 210 lbf-in Ambient conditions 7 10.3 lbf-in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature • during operation • during storage and transport -40 +80 °C • during storage and transport -40 +80 °C • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • 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 module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • RoderiNet/PP Yes • Modbus RTU Yes • PROFINET standard </td <td> between soft starter and motor maximum </td> <td>800 m</td>	 between soft starter and motor maximum 	800 m		
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type during operation during transport eduring transport according to IEC 60721 generation acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFINET standard Yes Modous RTU ProoFINET standard Faults at 460/480 V according to UL Stemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 KA 	 at the digital inputs at AC maximum 	100 m		
• for auxiliary and control contacts with screw-type terminals 0.8 1.2 N m tightening torque [lbfin] • for main contacts with screw-type terminals 124 210 lbf-in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf-in Ambient conditions 5 000 m; Derating as of 1000 m, see catalog • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • 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 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • domulcation / Protocol communication module is supported • PROFINET standard Yes • Modbus TCP Yes • PROFIBUS Yes • Deroliti breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA </td <td>tightening torque</td> <td></td>	tightening torque			
terminals tightening torque [lbf:in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient conditions installation altitude at height above sea level maximum aduing operation • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol comunication	 for main contacts with screw-type terminals 	14 24 N·m		
tightening torque [lbf·in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 124 210 lbf-in Ambient conditions 7 10.3 lbf-in installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature during operation during storage and transport during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2; Class A Communication module is supported PROFINET standard Yes PROFIBUS Yes PROFIBUS Yes DeroFIBUS Yes DeroFIBUS Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA 		0.8 1.2 N·m		
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage and transport during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand mus not get inside the devices), 1M4 during transport according to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Module is supported PROFINET standard Yes Modbus RTU Yes Modbus TCP PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 				
• for auxiliary and control contacts with screw-type terminals 7 10.3 lbf-in Ambient conditions 5 000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum e during operation 5 000 m; Derating as of 1000 m, see catalog • during storage and transport -40 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • 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 transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • 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 Module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus RTU Yes • PROFIBUS Yes • Or circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA				
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 operation according to IEC 60721 -40 +80 °C • during operation according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • 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 module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus RTD Yes • PROFIBUS Yes • DerofiBUS Yes • UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA according to UL • usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max.				
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Communication / Protocol communication / Protocol communication Protocol communication • PROFIBUS • PROFIBUS • PROFIBUS • of circuit breaker • usable for Standard Faults at 460/480 V according to UL • usable for Fligh Faults at 460/480 V according to UL <td></td> <td>7 10.3 lbf·in</td>		7 10.3 lbf·in		
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature • during operation • during storage and transport -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 • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) ether munication / Protocol acc. to IEC 60947-4-2; Class A Communication / Protocol Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • PROFIBUS Yes • Deroting befor Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA				
ambient temperature -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 • during storage 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 transport according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • PROFIBUS Yes • Drole of circuit breaker Yes • of circuit breaker Yes • of circuit breaker Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA				
• 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 • during storage 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 transport according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2; Class A Communication Module is supported • PROFINET standard • PROFINET standard Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA		5 000 m; Derating as of 1000 m, see catalog		
• during storage and transport -40 +80 °C • 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) • 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 module is supported Yes • EhterNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA				
• during storage and transport -40 +80 °C environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported • PROFINET standard • PROFINET standard Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number of circuit breaker - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA	 during operation 			
environmental category during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported PROFINET standard Yes Modbus RTU Yes Modbus TCP PROFIBUS Yes Modbus TCP Yes Semens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA 	during storage and transport			
 during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 fk6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol communication module is supported PROFINET standard Yes Modbus RTU Yes Modbus TCP PROFIBUS Yes PROFIBUS Yes UL/CSA ratings usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA 				
mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication / Protocol communication module is supported • PROFINET standard Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	0,1	3K6 (no ice formation, only occasional condensation), 3C3 (no salt		
not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication / Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA				
• 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 Yes • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes — usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL — usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must		
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 Yes 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; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65		not get inside the devices), 1M4		
Communication/Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	during transport according to IEC 60721			
communication module is supported PROFINET standard • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes ull/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	EMC emitted interference	acc. to IEC 60947-4-2: Class A		
 PROFINET standard PROFINET standard EtherNet/IP Modbus RTU Modbus RTU Yes Modbus TCP PROFIBUS Yes UL/CSA ratings UL/CSA ratings standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL 	Communication/ Protocol			
EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes• PROFIBUSYesUL/CSA ratingsusable for Standard Faults at 460/480 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA According to UL	communication module is supported			
• Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes • of circuit breaker Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL	 PROFINET standard 	Yes		
Modbus TCP PROFIBUS Yes Yes UL/CSA ratings Inducturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA A	EtherNet/IP	Yes		
• PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA • of circuit breaker Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA - 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 - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA	Modbus RTU	Yes		
UL/CSA ratings manufacturer's article number • of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA A	Modbus TCP	Yes		
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	PROFIBUS	Yes		
 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA 	UL/CSA ratings			
 usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA 	manufacturer's article number			
according to UL — usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA	of circuit breaker			
- usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA		Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
— usable for Standard Faults at 460/480 V at Siemens type: 3VA54, max. 600 A; Iq = 18 kA	— usable for High Faults at 460/480 V according			
inside-delta circuit according to UL		Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	— usable for High Faults at 460/480 V at inside-	Siemens type: 3VA54, max. 600 A; lq max = 65 kA		
— usable for Standard Faults at 575/600 V Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL	— usable for Standard Faults at 575/600 V	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq = 18 kA	— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; lq = 18 kA		
of the fuse		Type: Class J / L, max. 800 A; Iq = 18 kA		

according to UL — usable for High Faults up to 5	75/600 \/	Type: Class J / L, max. 80	0.0.1 = 100 k		
according to UL	115/000 V	Type. Class J / L, max. or	JU 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. 80	00 A; Iq = 18 kA		
 — usable for High Faults at inside to 575/600 V according to UL 	le-delta circuit up	Type: Class J / L, max. 80	00 A; Iq = 100 kA		
operating power [hp] for 3-phase mot	ors				
• at 200/208 V at 50 °C rated value		60 hp			
• at 220/230 V at 50 °C rated value		75 hp			
• at 460/480 V at 50 °C rated value		150 hp			
 at 200/208 V at inside-delta circuit value 		125 hp			
 at 220/230 V at inside-delta circuit value 		150 hp			
at 460/480 V at inside-delta circuit value	at 50 °C rated	300 hp			
contact rating of auxiliary contacts ac	cording to UL	R300-B300			
Safety related data					
protection class IP on the front accor 60529	ding to IEC	IP00; IP20 with cover			
touch protection on the front according	ng to IEC 60529	finger-safe, for vertical co		over	
electromagnetic compatibility		in accordance with IEC 60)947-4-2		
Certificates/ approvals					
General Product Approval				EMC	
CSA CSA	(CCC		LHL	RCM	
Declaration of Conformity	Test Certifica	ates Marine / Shipping	J		
CE UK EG-Konf. CA	<u>Type Test Ce</u> ates/Test Re		BUREAU VERITAS	Lloyd's Register uts	
Marine / Shipping	other				
PRS ENVICE	<u>Confirmatic</u>	<u>on</u>			
Further information					
Information- and Downloadcenter (Ca	talogs, Brochures,.)			
https://www.siemens.com/ic10 Industry Mall (Online ordering system					
https://mall.industry.siemens.com/mall/e	n/en/Catalog/product	t?mlfb=3RW5244-2TC14			
Cax online generator http://support.automation.siemens.com/	WW/CAXorder/defau	It aspx?lang=en&mlfb=3R\/	5244-2TC14		
Service&Support (Manuals, Certificate https://support.industry.siemens.com/cs/	es, Characteristics,	FAQs,)	<u>0277 21017</u>		
Image database (product images, 2D	dimension drawing	s, 3D models, device circu	iit diagrams, EPLAN ma	cros,)	
http://www.automation.siemens.com/bild	dh /agu da ganu (Jmlf	b=3RW5244-2TC14⟨=e	en -	-	
Characteristic: Tripping characteristic					
https://support.industry.siemens.com/cs/	cs, I ² t, Let-through o				
Characteristic: Installation altitude	cs, I ² t, Let-through o				
Characteristic: Installation altitude http://www.automation.siemens.com/bild	cs, I ² t, Let-through c /ww/en/ps/3RW52444	-2TC14/char	<u>FC14&objecttyp</u> e=14&aric	lview=view1	

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 last modified:

4/10/2022 🖸