SIEMENS

Data sheet

3RW5244-2AC14



SIRIUS soft starter 200-480 V 250 A, 110-250 V AC spring-type terminals Analog output

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW52		
manufacturer's article number			
 of standard HMI module usable 	<u>3RW5980-0HS00</u>		
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>		
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>		
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>		
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>		
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>		
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>		
 of circuit breaker usable at 400 V 	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 	<u>3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>		
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>		
 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>		
eneral technical data			
starting voltage [%]	30 100 %		
stopping voltage [%]	50 50 %		
start-up ramp time of soft starter	0 20 s		
current limiting value [%] adjustable	130 700 %		
certificate of suitability			
CE marking	Yes		
UL approval	Yes		
CSA approval	Yes		
product component is supported			
HMI-Standard	Yes		
HMI-High Feature	Yes		
product feature integrated bypass contact system	Yes		

number of controlled phases	3			
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			
buffering time in the event of power failure				
for main current circuit	100 ms			
for control circuit	100 ms			
insulation voltage rated value				
degree of pollution	600 V 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 acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
product function	10.02.2010 00.00.00			
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			
mainisc device protection motor overload protection				
evaluation of thermistor motor protection	Yes; Electronic motor overload protection No			
inside-delta circuit				
auto-RESET	Yes			
manual RESET	Yes Yes			
remote reset				
	Yes; By turning off the control supply voltage Yes			
communication function				
operating measured value display	Yes; Only in conjunction with special accessories			
• error logbook	Yes; Only in conjunction with special accessories			
via software parameterizable	No			
via software configurable	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
• firmware update	Yes			
removable terminal for control circuit	Yes			
torque control	No			
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature			
	HMI)			
Power Electronics				
operational current				
• at 40 °C rated value	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	-15 %			
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 	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 for inside delta circuit at rotary coding switch on 	346 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on 	364 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	381 A 398 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	416 A
 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on 	433 A
switch position 16	

 at inside-delta circuit minimum 	173 A			
	15 %; Relative to smallest settable le			
minimum load [%] power loss [W] for rated value of the current at AC				
• 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 %	3 818 W			
at 40 °C during startup				
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	440 0501/			
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
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			
Inputs/ Outputs				
number of digital inputs	1			
number of inputs for thermistor connection	0			
number of digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	1			
switching capacity current of the relay outputs				
• at AC-15 at 250 V rated value	3 A			
• at DC-13 at 24 V rated value	1 A			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	393 mm			
width	210 mm			
depth	203 mm			
required spacing with side-by-side mounting				
• forwards	10 mm			
backwards	0 mm			
• upwards	100 mm			
 upwards 				

ad the skip add the skip ad	downwards	75 mm		
weight without packaging 9.9 kg Connections/Terminals type of electrical connection • for main current circuit sping-loaded terminals • for DN cable log for main contacts first anded 2x (50240 mm ³) • for DN cable log for main contacts first anded 2x (50240 mm ³) • for DN cable log for main contacts first anded 2x (50240 mm ³) • for control circuit finally stranded with core and processing 2x (2215 mm ³) • for control circuit finally stranded with core and processing 2x (2416) • at AWG cables for control circuit finally stranded with core and processing 2x (2416) • at AWG cables for control circuit finally stranded with core and processing 2x (2416) • at AWG cables for control circuit south screw-type terminals 424 N m • for main contacts with screw-type terminals 1424 N m • for main contacts with screw-type terminals 5.000 m; Dentaing as of 1000 m, see catalog • mainter and maport 20 Jbr/in • during storage and control contacts with screw-type terminals 20 Jbr/in • for main contacts with screw-type terminals 20 Jbr/in • for main contacts with screw-type terminals 20 Jbr/in		75 mm		
connections/forminals type of electrical connection i for main current circuit i for control circuit width of connection ber maximum 45 min type of connectable conductor cross-sections i for DN cable lug for main contacts finely stranded type of connectable conductor cross-sections i for Control circuit sold i for control circuit finely stranded with ocre end processing wire length i at MKG cables for control circuit finely stranded with or end processing wire length i at MKG cables for control circuit finely stranded with or end processing wire length i for main contracts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control contacts with screw-type terminals i for auxilary and control c				
Type of electrical connection busbar connection • for main current circuit busbar connection • for othic circuit spring-badded terminals • for DIN cable lug for main contacts stranded 2x (50240 mm²) • for DIN cable lug for main contacts stranded 2x (60240 mm²) • for control circuit solid 2x (6215 mm²) • for control circuit solid 2x (2416) • at AWG cables for control circuit solid 2x (2416) • at AWG cables for control circuit solid 2x (2416) • at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • for mains contacts with screw-type terminals 14 24 N m • for mains 124 210 lbf in • for mains and control contacts with screw-type terminals 124 20 lbf in • for mains contacts with screw-type terminals 124 210 lbf in • for main contracts with screw-type terminals 124 210 lbf in • for main contracts with screw-type terminals 124 210 lbf in • for main contracts with screw-type terminals 124 210 lbf in <tr< td=""><td></td><td>a.a kg</td></tr<>		a.a kg		
A for main current clouid budsar connection soring-loaded terminals synig-loaded terminals synig-loaded terminals for DIX connection bar maximum 45 mm fype of connectable conductor cross-sections for DIX cable lug for main contacts stranded 2x (0240 mm²) 2x (0240 mm²) 2x (0.251.5 m				
• for control circuit spring-loaded terminals width of connectable conductor cross-sections 45 mm • for DIN cable lig for main contacts firsh yes and chable light of main contacts firsh yes and the core end processing 2x (0.2.515 mm ²) • at AWG cables for control circuit solid 2x (0.2.515 mm ²) 2x (0.2.515 mm ²) • at AWG cables for control circuit solid 2x (0.2.515 mm ²) 2x (2.416) • at AWG cables for control circuit solid 2x (2.416) 2x (2.416) • or any fing-loaded terminals 00 m 2x (2.416) • or any fing-loaded terminals 00 m 2x (2.416) • for any fing-loaded terminals 100 m 100 m • for any fing-loaded terminals 100 m 100 m • for any fing-loaded terminals 124210 lbf:ln 124210 lbf:ln • for any fing-paration sec. to lice conzet 5 000 m; Derating as of 1000 m, see catalog ambient conditions 5 000 m; Derating as of 1000 m, see catalog ambient conditions -40 40 "C • during s		husher connection		
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• for DIN cable log for main contracts finely stranded 2x (70240 mm ²) type of connectable conductor cross-sections • (a control circuit solid 2x (0.2515 mm ²) • for control circuit finely stranded with core end processing • (a Control circuit finely stranded with core end processing) 2x (0.2515 mm ²) • at AWG cables for control circuit finely stranded with core end processing 0x (2416) 2x (2416) • et at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • for auxiliary and control contacts with screew-type terminals 1424 N m 0.812 N m • for auxiliary and control contacts with screew-type terminals 124210 lbf in 7103 lbf in • for auxiliary and control contacts with screew-type terminals 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 storage acc. to IEC 60721 3K6 (no loc formation, only occasional condensation), 3C3 (no salt misi), 3S2 (sand must not get into the devices), 3M0 • during storage acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during storage acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • EMO emi		$2x(50 - 240 \text{ mm}^2)$		
Type of connectable conductor cross-sections i for control circuit solid i for control circuit solid i 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 the digital inputs at AC maximum between soft starter and motor maximum at the digital inputs at AC maximum between soft starter and motor maximum at the digital inputs at AC maximum tor main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque (bf-in) if or auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type installation altitude at height above sea level maximum during storage and transport during storage and transport during storage acc. to IEC 60721 during storage acc. to IEC 60721 Ves Modobus RTU Ves Modobus RTU ves Ves	-	· · ·		
• for control circuit selid • for control circuit finely stranded with core end processing • at AVVC cables for control circuit finely stranded with core end processing • at AVVC cables for control circuit finely stranded with core end processing • at AVVC cables for control circuit finely stranded with core end processing • between soft starter and motor maximum • tor main contacts with screw-type terminals • for maxiliary 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 • during operation • during operation • during storage and transport • during storage and transport • during storage acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storadard Faults at 460/480 V according				
		$2x (0.25 \pm 1.5 \text{ mm}^2)$		
processing 2x (24 16) ext AWG cables for control circuit finely stranded with core and processing 2x (24 16) wire length between soft starter and motor maximum 800 m ext det diptal inputs at AC maximum 100 m tightening torque 100 m • for auxiliary and control 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 124 210 lbf in • for auxiliary and control contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog ambient conditions 5000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum 5000 m; Derating as of 1000 m, see catalog • during operation -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 operation acc. to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mists) 522 (sand must not get linside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2C1, 2X1, 2K2 (max, Fail height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2K1, 2K1, 2K2 (max, Fai				
		2x (0.25 1.5 mm)		
core and processing B00 m • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 210 lbf in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf in • for main contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • auxiliary and control contacts with screw-type terminals 7 10.3 lbf in • for main contact with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • during storage act 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 acc. to IEC 60721 3K6 (only occasional condensation), 1C2 (no salt must), 1S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Modbus RTU Yes • Modobus TCP Yes	 at AWG cables for control circuit solid 	2x (24 16)		
core and processing B00 m • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 24 N·m • for auxiliary and control contacts with screw-type terminals 14 210 lbf in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf in • for main contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • auxiliary and control contacts with screw-type terminals 7 10.3 lbf in • for main contact with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • during storage act 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 acc. to IEC 60721 3K6 (only occasional condensation), 1C2 (no salt must), 1S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Modbus RTU Yes • Modobus TCP Yes	 at AWG cables for control circuit finely stranded with 	2x (24 16)		
between soft starter and motor maximum eit the digital inputs at AC maximum 100 m 10 m 11 4 24 N m 0.8 12 N m 11 4 210 lbf-in 7 10.3 lbf-in				
• at the digital inputs at AC maximum 100 m tightening torque 1424 N·m • for maxiliary and control contacts with screw-type terminals 0.812 N·m • for auxiliary and control contacts with screw-type terminals 124210 lbf-in • for main contacts with screw-type terminals 124210 lbf-in • for auxiliary and control contacts with screw-type terminals 124210 lbf-in /Ambient conditions 5 000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temporature -25+60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25+60 °C; • during storage and transport -40+80 °C • during storage c. 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 acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) acc to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) • Ether Net/IP Yes • EtherNet/IP Yes • Modbus TCP Yes • Derouting to 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 at inside-dela circuit according to UL Siemens type:	wire length			
tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals. 14 24 N·m 0.8 1.2 N·m 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 during storage and transport during storage and transport during storage acc. to IEC 60721 during transport acc. terminals etroic to module is supported etroic to IEC 60721 during transport acc. tero transport acc. terminals transport acc.<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 14 24 N·m • for auxiliary and control contacts with screw-type terminals 0.8 1.2 N·m tightening torque [lbf·in] • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals 124 210 lbf in Anbient conditions 5 000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature • during operation • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • ULCSA traines Sie	 at the digital inputs at AC maximum 	100 m		
	tightening torque			
terminals 104 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 -40 +80 °C environmental category • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get ino the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Modbus TCP Yes • Modbus TCP Yes • PROFIBUS Yes ULCSA ratings 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 • usable for Standard Faults at 460/480 V according to UL. Siemens ty	 for main contacts with screw-type terminals 	14 24 N·m		
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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	 of circuit breaker — usable for Standard Faults at 460/480 V 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
	 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65		
	 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 usable for Standard Faults at 460/480 V at 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA		

	Standard Faults at 575/6	00 V	Siemens type: 3VA53, r	nax. 400 A or 3VA54, ma	ax. 600 A; Iq = 18 kA		
— usable for	according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL			Siemens type: 3VA54, max. 600 A; Iq = 18 kA			
 of the fuse 	J						
 — usable for according to 	- usable for Standard Faults up to 575/600 V			800 A; Iq = 18 kA			
— usable for according to	High Faults up to 575/600 UL	D V	Type: Class J / L, max.	800 A; Iq = 100 kA			
	Standard Faults at inside 575/600 V according to UL		Type: Class J / L, max. 800 A; Iq = 18 kA				
— usable for	High Faults at inside-delt		Type: Class J / L, max.	800 A; Iq = 100 kA			
	o] for 3-phase motors						
	t 50 °C rated value		60 hp				
• at 220/230 V at	t 50 °C rated value		75 hp				
• at 460/480 V at	t 50 °C rated value		150 hp				
 at 200/208 V at inside-delta circuit at 50 °C rated value 			125 hp				
 at 220/230 V at inside-delta circuit at 50 °C rated value 			150 hp				
• at 460/480 V at inside-delta circuit at 50 °C rated value			300 hp				
contact rating of auxiliary contacts according to UL			R300-B300				
Safety related data							
protection class IP	protection class IP on the front acc. to IEC 60529			IP00; IP20 with cover			
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front with cover				
electromagnetic compatibility			in accordance with IEC 60947-4-2				
Certificates/ approval	ls						
					Declaration of		
General Product Ap	oproval			EMC	Conformity		
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CSA	ccc	UL		RCM	EG-Konf.		
Test Certificates	Marine / Shipping						
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ates/Test Report		(「読品」)	Register				
	ABS		LRS	PRS	Divolation		
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other							

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2AC14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5244-2AC14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC14

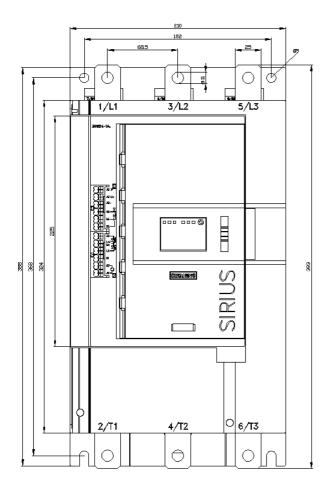
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2AC14&lang=en</u> Characteristic: Tripping characteristics, I²t, Let-through current

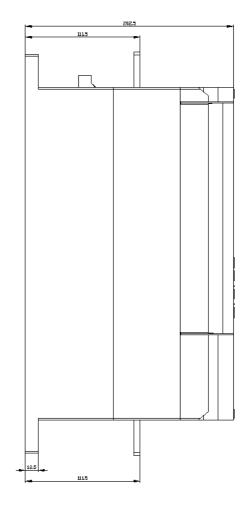
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC14/char

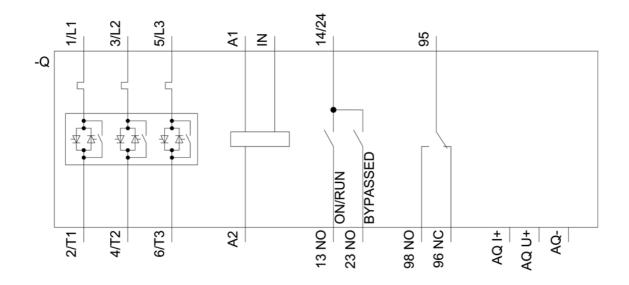
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2AC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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