## **SIEMENS**

Data sheet 3RW5527-1HF04



SIRIUS soft starter 200-480 V 93 A, 24 V AC/DC Screw terminals Fail-safe

Figure similar

product brand name product category product designation product type designation manufacturer's article number

- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFINET high-feature usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- $\bullet$  of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V
- of the redundant contactor for applications > SIL 1 according to EN 62061
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061
- of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1

**SIRIUS** 

Hybrid switching devices Failsafe soft starters

3RW55

3RW5980-0HF00

3RW5980-0CS00

3RW5950-0CH00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10

 $\underline{3VA2220-7MN32-0AA0}$ ; Type of coordination 1, Iq = 15 kA, CLASS 10

3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10

3NA3136-6; Type of coordination 1, Iq = 65 kA

3NA3136-6; Type of coordination 1, Iq = 65 kA

3NE1224-0; Type of coordination 2, Iq = 65 kA

3NE3227; Type of coordination 2, Iq = 65 kA

3RT1055

3RT1055

3RT1064

3RT1064

## General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter ramp-down time of soft starter start torque [%] stopping torque [%] torque limitation [%] 20 ... 100 %

50 %; non-adjustable

0 ... 360 s

0 ... 360 s

10 ... 100 %

10 ... 100 %

20 ... 200 %

current limiting value [%] adjustable 125 ... 800 % 40 ... 100 % breakaway voltage [%] adjustable breakaway time adjustable 0 ... 2 s number of parameter sets 3 accuracy class according to IEC 61557-12 5 % certificate of suitability CE marking Yes Yes UL approval CSA approval Yes product component • HMI-High Feature Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases trip class CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current unbalance limiting value [%] 10 ... 60 % ground-fault monitoring limiting value [%] 10 ... 95 % buffering time in the event of power failure 100 ms • for main current circuit • for control circuit 100 ms idle time adjustable 0 ... 255 s insulation voltage rated value 480 V degree of pollution 3, acc. to IEC 60947-4-2 6 k\/ impulse voltage rated value blocking voltage of the thyristor maximum 1 400 V 1.15 service factor surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation • between main and auxiliary circuit 480 V; does not apply for thermistor connection shock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz recovery time after overload trip adjustable 60 ... 1 800 s utilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81346-2 11/22/2019 Substance Prohibitance (Date) product function • ramp-up (soft starting) Yes • ramp-down (soft stop) Yes Yes • breakaway pulse • adjustable current limitation Yes • creep speed in both directions of rotation Yes • pump ramp down Yes DC braking Yes Yes motor heating Yes • slave pointer function Yes trace function • intrinsic device protection Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta • 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 communication function Yes • operating measured value display Yes Yes event list error logbook Yes • via software parameterizable Yes • via software configurable Yes Yes screw terminal spring-loaded terminal Yes: in connection with the PROFINET Standard and PROFINET High-PROFlenergy

	Feature communication medules
firmware update	Feature communication modules Yes
removable terminal for control circuit	Yes
	Yes
<ul><li>voltage ramp</li><li>torque control</li></ul>	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
• condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
at 40 °C rated value	93 A
• at 40 °C rated value minimum	19 A
• at 50 °C rated value	82.5 A
<ul> <li>at 60 °C rated value</li> </ul>	75.5 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	161 A
<ul> <li>at 50 °C rated value</li> </ul>	143 A
<ul> <li>at 60 °C rated value</li> </ul>	131 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	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	22 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	45 kW
at 400 V at 40 °C rated value	45 kW
at 400 V at inside-delta circuit at 40 °C rated value	90 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	-10 % 10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	10 %, Nelative to set le
at 40 °C after startup	28 W
• at 50 °C after startup	25 W
at 60 °C after startup	23 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	1 258 W
at 50 °C during startup	1 065 W
at 60 °C during startup	948 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	20 %
voltage at AC at 50 Hz relative negative tolerance of the control supply	-20 %
voltage at AC at 60 Hz	

relative positive tolerance of the control supply	20 %
voltage at AC at 60 Hz	
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency relative positive tolerance of the control supply	10 %
voltage frequency	10 76
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at DC	-0 /V
relative positive tolerance of the control supply	20 %
voltage at DC	
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	870 mA
inrush current by closing the bypass contacts	6.3 A
maximum	
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control	20 ms
supply voltage	20 1110
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	4
with fail-safe	1
<ul> <li>parameterizable</li> </ul>	4
<ul> <li>number of digital outputs</li> </ul>	3
<ul> <li>Number of digital outputs with fail-safe</li> </ul>	1
<ul> <li>number of digital outputs parameterizable</li> </ul>	2
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
	changeover contact (CO)
number of analog outputs	1
• .	
switching capacity current of the relay outputs	
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value	3 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times	3 A 1 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Response times OFF-delay time with safety-related request when switched	3 A
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum	3 A 1 A
switching capacity current of the relay outputs  at AC-15 at 250 V rated value  at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions	3 A 1 A 100 ms
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm
switching capacity current of the relay outputs  at AC-15 at 250 V rated value  at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  forwards  backwards  upwards  downwards  at the side	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals type of electrical connection	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg
switching capacity current of the relay outputs	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg
switching capacity current of the relay outputs	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal screw-type terminals
switching capacity current of the relay outputs	3 A 1 A  100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg
switching capacity current of the relay outputs	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal screw-type terminals 25 mm
switching capacity current of the relay outputs  at AC-15 at 250 V rated value  at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  forwards  backwards  upwards  downwards  at the side weight without packaging  Connections/ Terminals  type of electrical connection  for main current circuit  for control circuit width of connection bar maximum wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal screw-type terminals 25 mm  50 m
switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side  weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal screw-type terminals 25 mm  50 m 150 m
switching capacity current of the relay outputs  at AC-15 at 250 V rated value  at DC-13 at 24 V rated value  Response times  OFF-delay time with safety-related request when switched off via control inputs maximum  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing with side-by-side mounting  forwards  backwards  upwards  downwards  at the side weight without packaging  Connections/ Terminals  type of electrical connection  for main current circuit  for control circuit width of connection bar maximum wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum	3 A 1 A 100 ms  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  box terminal screw-type terminals 25 mm  50 m

1x (2.5 ... 16 mm²) • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 ... 50 mm<sup>2</sup>) clamping point finely stranded with core end • for main contacts for box terminal using the front 1x (10 ... 70 mm<sup>2</sup>) clamping point stranded • at AWG cables for main contacts for box terminal 1x (10 ... 2/0) using the front clamping point • for main contacts for box terminal using the back 1x (2.5 ... 16 mm<sup>2</sup>) clamping point solid • at AWG cables for main contacts for box terminal 1x (10 ... 2/0) using the back clamping point • for main contacts for box terminal using both 2x (2.5 ... 16 mm²) clamping points solid • for main contacts for box terminal using both 2x (2.5 ... 35 mm²) clamping points finely stranded with core end processing • for main contacts for box terminal using both 2x (6 ... 16 mm<sup>2</sup>), 2x (10 ... 50 mm<sup>2</sup>) clamping points stranded • for main contacts for box terminal using the back 1x (2.5 ... 50 mm<sup>2</sup>) clamping point finely stranded with core end processing • for main contacts for box terminal using the back 1x (10 ... 70 mm<sup>2</sup>) clamping point stranded type of connectable conductor cross-sections • for control circuit solid 1x (0.5 ... 4.0 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>) • for control circuit finely stranded with core end 1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>) processing • at AWG cables for control circuit solid 1x (20 ... 12), 2x (20 ... 14) wire length • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1 000 m tightening torque 4.5 ... 6 N·m for main contacts with screw-type terminals · for auxiliary and control contacts with screw-type 0.8 ... 1.2 N·m terminals tightening torque [lbf·in] • for main contacts with screw-type terminals 40 ... 53 lbf·in • for auxiliary and control contacts with screw-type 7 ... 10.3 lbf·in terminals Ambient conditions installation altitude at height above sea level maximum 2 000 m; Derating as of 1000 m, see catalog ambient temperature -25 ... +60 °C; Please observe derating at temperatures of 40 °C or during operation above -40 ... +80 °C • during storage and transport 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 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must • during storage according to IEC 60721 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 Yes PROFINET standard • PROFINET high-feature 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 Siemens type: 3VA51, max. 125 A; Iq = 10 kA

according to UL

Siemens type: 3VA51, max. 125 A; Iq max = 65 kA usable for High Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq = 10 kA - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA51, max. 125 A; Iq max = 65 kA delta circuit according to UL usable for Standard Faults at 575/600 V Siemens type: 3VA51, max. 125 A; Iq = 10 kA according to UL usable for High Faults at 575/600 V at inside-Siemens type: 3VA51, max. 125 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA inside-delta circuit according to UL • of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 300 A; Iq = 10 kA according to UL - usable for High Faults up to 575/600 V Type: Class J / L, max. 250 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 300 A; Iq = 10 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 250 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 25 hp • at 220/230 V at 50 °C rated value 30 hp • at 460/480 V at 50 °C rated value 60 hp at 200/208 V at inside-delta circuit at 50 °C rated 40 hp value 50 hp at 220/230 V at inside-delta circuit at 50 °C rated • at 460/480 V at inside-delta circuit at 50 °C rated 100 hp value R300-B300 contact rating of auxiliary contacts according to UL Safety related data safety device type according to IEC 61508-2 Type B 1 000 000 B10d value Safety Integrity Level (SIL) according to IEC 61508 SII<sub>1</sub> SIL Claim Limit (subsystem) according to EN 62061 SIL 1 performance level (PL) according to EN ISO 13849-1 С category according to EN ISO 13849-1 2 stop category according to EN 60204-1 0 60 % Safe failure fraction (SFF) average diagnostic coverage level (DCavg) 90 % diagnostics test interval by internal test function 1 000 s maximum PFHD with high demand rate according to EN 62061 1E-6 1/h PFDavg with low demand rate according to IEC 61508 0.09 hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to 20 a IEC 61508 safe state Open load circuit protection class IP on the front according to IEC IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility acc. to IEC 60947-4-2 ATEX certificate of suitability ATFX Yes IFCFx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 0 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5E-7 1/h

relating to ATEX

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

SIL1

3 a

Certificates/ approvals

## **General Product Approval**





Confirmation







**EMC** 

For use in hazardous locations

Declaration of Conformity

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping



I B·S



Confirmation

other

## Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5527-1HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5527-1HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-1HF04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5527-1HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

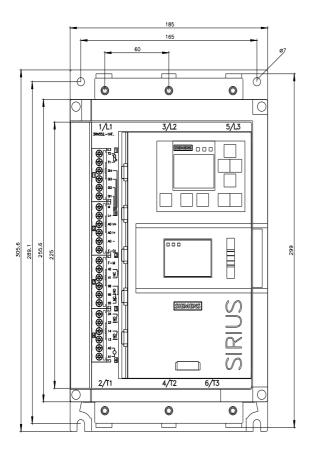
https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-1HF04/char

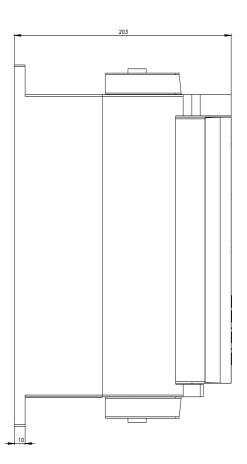
Characteristic: Installation altitude

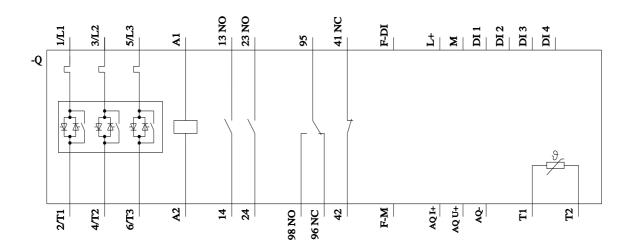
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5527-1HF04\&objecttype=14\&qridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







last modified: 1/13/2023 🖸