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	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
of high feature HMI module usable	3RW5980-0HF00
• of communication module PROFINET standard usable	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
 of communication module PROFIBUS usable 	3RW5980-0CP00
• of communication module Modbus TCP usable	3RW5980-0CT00
• of communication module Modbus RTU usable	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
• of circuit breaker usable at 500 V	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3136-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3136-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1224-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3227; Type of coordination 2, Iq = 65 kA
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT1055</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT1055</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT1064</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	3RT1064
eneral technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s

number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	,
CE marking	Yes
UL approval	Yes
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	3
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	10 00 //
• for main current circuit	100 ms
• 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
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	O KV
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	Q
Substance Prohibitance (Date)	11/22/2019
product function	11/22/2013
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down	Yes
DC braking	Yes
motor heating	Yes
slave pointer function	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick
 evaluation of thermistor motor protection inside-delta circuit 	Yes
inside-della circuit auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
	Yes
 operating measured value display event list 	Yes
error logbook via coftware parameterizable	Yes
via software parameterizable via software configurable	Yes
via software configurable	Yes
screw terminal	Yes
spring-loaded terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules

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 at 60 °C during startup 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 at 60 Hz rated value at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz 20 % 20 % 		
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type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz		
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz control supply voltage at AC at 50 Hz 24 V 20 %		Electronic, tripping in the event of thermal overload of the motor
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value 24 V relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz		10/00
 at 50 Hz rated value at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz 		AC/DC
at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz 24 V -20 % 20 %		2414
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz -20 % 20 %		
AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz 20 %		
AC at 50 Hz		-20 %
relative negative tolerance of the control supply voltage at -20 %		
	relative negative tolerance of the control supply voltage at	-20 %

AC at 60 Hz	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	870 mA
inrush current by closing the bypass contacts maximum	6.3 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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	4
with fail-safe	1
parameterizable	4
<u> </u>	
number of digital outputs	3
Number of digital outputs with fail-safe	1
number of digital outputs parameterizable	2
number of digital outputs not parameterizable	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	
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	7.15 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	box terminal
for control circuit	
	screw-type terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
e with conductor cross section = 0.52i	F0 m
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	50 m 150 m

with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)
 for AWG cables for main contacts for box terminal using the back clamping point 	1x (10 2/0)
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	(== 1 =), = (== 1)
•	800 m
between soft starter and motor maximum at the digital inputs at DC maximum	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	4.5 6 N·m
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 terminals 	7 10.3 lbf·in
Ambient conditions	
	2 000 m; Derating as of 1000 m, see catalog
installation altitude at height above sea level maximum	2 000 m, Deraing as or 1000 m, see catalog
ambient temperature	05 100 °C. Diagram - harry 1 11 11
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 	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/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
	Yes
PROFIBUS III (CSA refinese)	1 53
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
 usable for Standard Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA

	 usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
	usable for Standard Faults at 575/600 V according	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
delta circuit according to UL - usable for Standard Faults up to 575:000 V - usable for Standard Faults up to 575:000 V - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit up to 575:000 V according to UL - usable for Islandard Faults at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at Inside-delta circuit at 50 °C rated value - ut 2002039 V at 1000 V at 2002039 - ut 2002039 V at 1000 V at	— usable for High Faults at 575/600 V at inside-delta	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
Type: Class RK5 / K5, max. 309 A. Iq = 10 KA according to UI.		Siemens type: 3VA51, max. 125 A; Iq = 10 kA
according to UL — usable for Standard Faults at inside-delta circuit up to 675/6800 V according to UL — usable for Filipf Faults at inside-delta circuit up to 675/6800 V according to UL — usable for Filipf Faults at inside-delta circuit up to 575/6800 V according to UL — proper filip for 3-phase motors • at 200/298 V at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at inside-delta circuit at 50° Crated value • at 200/298 V at 50° Crated value • at 200/298 V at 50° Crated v	of the fuse	
UL — usable for Standard Faults at inside-delta circuit up to 575:600 V according to UL — usable for High Fault at I mide-delta circuit up to 575:600 V according to UL — STANDARD V per Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class J / L, max. 250 A; Iq = 100 kA — Type: Class R Typ	according to UL	Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
to 575/800 V according to Ut. —usable for High Faults at Inside delta circuit up to 575/800 V according to Ut. poperating power (Ptp) for 3-phase motors * at 200/208 V at 50 °C rated value * at 200/208 V at 50 °C rated value * at 200/208 V at 50 °C rated value * at 200/208 V at 180-delta circuit at 50 °C rated value * at 200/208 V at Inside-delta circuit at 50 °C rated value * at 200/208 V at Inside-delta circuit at 50 °C rated value * at 200/208 V at Inside-delta circuit at 50 °C rated value * at 200/208 V at Inside-delta circuit at 50 °C rated value * at 200/208 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480 V at Inside-delta circuit at 50 °C rated value * at 400/480		Type: Class J / L, max. 250 A; Iq = 100 kA
s75,600 V according to UI. operating power (Tip) for 3-phase motors • at 200/208 V at 50 °C rated value • at 200/208 V at 50 °C rated value • at 200/208 V at 160-deted value at 200/208 V at 2		Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
at 200/208 V at 50 °C rated value at 200/209 V at 50 °C rated value at 400/408 V at 50 °C rated value 4 200/209 V at inside-deficient at 50 °C rated value at 200/208 V at inside-deficient at 50 °C rated value by at 200/208 V at inside-deficient at 50 °C rated value at 200/208 V at inside-deficient at 50 °C rated value at 450/430 V at inside-deficient at 50 °C rated value at 450/430 V at inside-deficient at 50 °C rated value by at 460/480 V at inside-deficient at 50 °C rated value at 450/480 V at inside-deficient at 50 °C rated value contact rating of auxiliary contacts according to UL 8300-8300 836ty related dats safety device type according to IEC 61508-2 100 000 8161 V		Type: Class J / L, max. 250 A; Iq = 100 kA
at 220/230 V at 180 °C rated value at 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value at 220/230 V at inside-defita circuit at 50 °C rated value at 220/230 V at inside-defita circuit at 50 °C rated value at 480/480 V at inside-defita circuit at 50 °C rated value but 480/480 V at inside-defita circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data safety device type according to IEC 61598-2 B100 value Safety integrity Level (SIL) according to IEC 61508 SIL 1 performance level (PL) according to EN 800 13849-1 category according to EN 180 13849-1 2 stop category according to EN 80204-1 3 stop category according to EN 80206-1 3 stop category with low demand rate according to IEC 80529 4 stop category with low demand rate according to IEC 80529 5 stop category according to EN 80206-1 4 stop category according to EN 80206-1 5 stop category a	operating power [hp] for 3-phase motors	
at 200/208 V at 150 °C rated value at 200/208 V at 150 edelta circuit at 50 °C rated value at 200/208 V at 150 edelta circuit at 50 °C rated value at 480/480 V at 150 edelta circuit at 50 °C rated value at 480/480 V at 150 edelta circuit at 50 °C rated value to his 480 edelta circuit at 50 °C rated value as 480/480 V at 150 edelta circuit at 50 °C rated value to his 4800-8300 Safety retained data safety device type according to IEC 61508-2 Type B B10d value Safety integrity Level (SIL) according to IEC 61508 SIL 1 SIL Caliam Limit (subsystem) according to EN 82061 SIL 1 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 2 stop category according to EN ISO 13849-1 2 stop category according to EN ISO 13849-1 2 safe fallure fraction (SFF) average diagnostic coverage level (DCavy) diagnostics test interval by internal test function maximum 1 1000 s PPFD with high demand rate according to IEC 61508 Androware fault tolerance according to IEC 61508 Ti value for proof test interval or service life according to IEC 61508 Ti value for proof test interval or service life according to IEC 61508 as as faste protection class IP on the front according to IEC 6508 touch protection aces IP on the front according to IEC 60529 touch protection aces IP on the front according to IEC 60529 touch protection aces IP on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover according to ATEX Yes *IECEX * * **ECEX * * * * * * * * * * * * * * * * * * *	 at 200/208 V at 50 °C rated value 	25 hp
at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value 100 hp contact rating of auxiliary contacts according to UL 8300-8300 Safety related data asfety device type according to IEC 61508-2 B104 value 1 000 000 Safety Integrity Level (SIL) according to IEC 61508-2 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN 150 13849-1 category according to EN ISO 13849-1 category according to EN ISO 13849-1 category according to EN ISO 13849-1 category according to EN 60204-1 Stop category according to EN 60204-1 Stop category according to EN 60204-1 Safe failure fraction (SFF) average diagnostic coverage level (CCavg) diagnostics test interval by internal test function maximum PFHD with high demand rate according to IEC 61508 17 value for proof test interval or service life according to IEC 61508 17 value for proof test interval or service life according to IEC 61508 asfe state protection class IP on the front according to IEC 60529 flooring-safe, for vertical contact from the front with cover flooring-safe for vertical compatibility ATEX certificate of suitability ATEX pFD or proof test interval or Service life according to IEC 61508 and the safe state by the safe state of the safe state or protection on the front according to IEC 60529 flooring-safe, for vertical contact from the front with cover flooring-safe for vertical contact from the front with cover electromagnetic compatibility ATEX certificate of suitability ATEX pFD or protection according to ATEX florective 2014/34/EU protection according to ATEX florective 2014/34/EU safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Ty value for proof test interval or service life according to IEC 61508 relating to ATEX Ty value for proof test interval or service life according to IEC 61508 relating to ATEX Ty value for proof test interval or service life according to IEC 61508 relating to ATEX	 at 220/230 V at 50 °C rated value 	30 hp
at 220/230 V at inside-delta circuit at 50 °C rated value at 480/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Sety related data safety device type according to IEC 61508-2 If ype B If 0 value 1 000 000 Safety integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN 8024-1 category according to EN ISO 13849-1 cstep category according to EN ISO 13849-1 cst	 at 460/480 V at 50 °C rated value 	60 hp
and the state of auxiliary contacts according to UL R300-B300 R300-B300-B300 R300-B300 R300-B30	• at 200/208 V at inside-delta circuit at 50 °C rated value	40 hp
contact rating of auxiliary contacts according to UL Safety rolated data safety device type according to IEC 61508-2 B10d value 1 000 000 Safety Integrity Level (SIL) • according to IEC 61508 SIL 1 Jefformance level (PL) according to EN 62061 Jefformance level (PL) according to EN 62061 Jefformance level (PL) according to EN 180 13849-1 category according to EN 180 13849-1 stop category according to EN 80204-1 Safe failure fraction (SFF) 60 % average diagnostic coverage level (DCavg) diagnostics tost interval by internal test function maximum PFHD with high demand rate according to IEC 61508 Abardware fault tolerance according to IEC 61508 1 value for proof test interval or service life according to IEC 61508 Safe state Protection class IP on the front according to IEC 60529 floor protection class IP on the front according to IEC 60529 floor protection on the front according to IEC 60529 floor protection according to ATEX IECEX * according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 election according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 election according to ATEX directive 2014/34/EU hardware fault tolerance according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Tvalue for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/approvalo	• at 220/230 V at inside-delta circuit at 50 °C rated value	50 hp
Safety device type according to IEC 61508-2 Safety Integrity Level (SIL) * according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN 180 13849-1 category according to EN 180 13849-1 stop category according to EN 620241 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) diagnostics test interval by internal test function maximum PFHD with high demand rate according to EN 62081 11 value for proof test interval or service life according to IEC 61508 T1 value for proof test interval or service life according to IEC 60529 electromagnetic compatibility **TEX* certificate of suitability **ATEX* **IECE* **according to ATEX directive 2014/34/EU type of protection according to IEC 61508 PFDay with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 **To vertical contact from the front with cover according to IEC 61508 **Jes ATEX* **IECE* **according to ATEX directive 2014/34/EU type of protection according to IEC 61508 PFDay with low demand rate according to IEC 61508 PFDay with low demand rate according to IEC 61508 SIL 1 Safety Integrity Level (SIL) according to IEC 61508 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 Certificates/approvals	• at 460/480 V at inside-delta circuit at 50 °C rated value	100 hp
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General Product Approval	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





Confirmation

other

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5527-1HF04}$

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, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5527-1HF04\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current

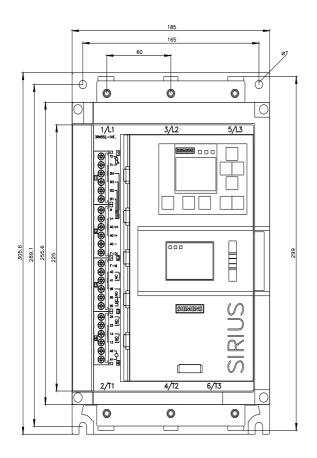
https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-1HF04/char

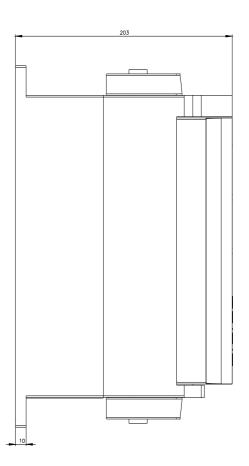
Characteristic: Installation altitude

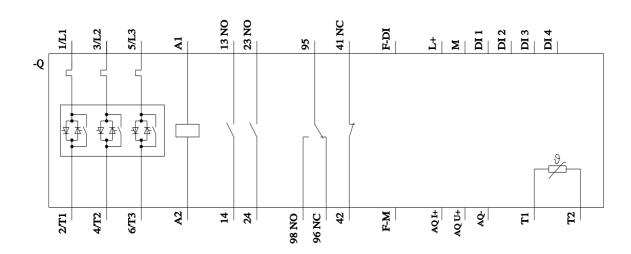
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5527-1HF04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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