# **SIEMENS**

Data sheet 3RW5527-3HF04



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





product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3136-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3136-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1224-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3227; Type of coordination 2, Iq = 65 kA
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	<u>3RT1055</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	<u>3RT1055</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	3RT1064
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	3RT1064
General 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 %

40 100 %
0 2 s
3
5 (based on IEC 61557-12)
Yes
Yes
Yes
- 100
Yes
Yes
Yes
3
10 60 %
10 95 %
10 00 /0
100 ms
100 ms
0 255 s
480 V
3, acc. to IEC 60947-4-2
6 kV
1 400 V
1.15
6 kV
400 \ /
480 V; does not apply for thermistor connection
15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
15 mm up to 6 Hz; 2 g up to 500 Hz
60 1 800 s
AC 53a
Q
11/22/2019 Lead - 7439-92-1
Lead monoxide (lead oxide) - 1317-36-8
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4
Dibutylbis(pentane-2,4-dionato-0,0')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
Dibutylbis(pentane-2,4-dionato-0,0')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3 8 kg
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3  8 kg  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

error logbook	Yes
via software parameterizable	Yes
• via software configurable	Yes
screw terminal	No
spring-loaded terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature
• firmware update	communication modules Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	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
automatic parameterisation     application wizards	Yes
alternative run-down	Yes
alternative run-down     emergency operation mode	Yes
reversing operation	Yes
<ul> <li>reversing operation</li> <li>soft starting at heavy starting conditions</li> </ul>	Yes
• soit starting at neavy starting conditions  Power Electronics	160
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
at 60 °C rated value	75.5 A
operational current at inside-delta circuit	70.07
at 40 °C rated value	161 A
at 50 °C rated value	143 A
• at 60 °C rated value	131 A
operating voltage	10171
• 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	
• at 230 V at 40 °C rated value	22 kW
• at 230 V at inside-delta circuit at 40 °C rated value	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	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	28 W
<ul> <li>at 50 °C after startup</li> </ul>	25 W
at 60 °C after startup	23 W
power loss [W] at AC at current limitation 350 $\%$	
<ul> <li>at 40 °C during startup</li> </ul>	1 258 W
<ul> <li>at 50 °C during startup</li> </ul>	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 voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
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	Total Control
number of digital inputs	4
with fail-safe	1
parameterizable	4
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	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 1.5 mm² maximum	150 m
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
type of connectable conductor cross-sections for main contacts for box terminal	
<ul> <li>using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>r box terminal using the back clamping point</li> </ul>	1x (10 2/0)
<ul> <li>using both clamping points solid</li> </ul>	2x (2.5 16 mm²)
<ul> <li>using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
using the back clamping point stranded	1x (10 70 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	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
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf-in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 $$
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	
global warming potential [CO2 eq] total	399 kg
global warming potential [CO2 eq] during manufacturing	92.6 kg
global warming potential [CO2 eq] during sales	2.37 kg
global warming potential [CO2 eq] during operation	324 kg
global warming potential [CO2 eq] after end of life	-19.4 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Electromagnetic compatibility	
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
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<ul><li>EtherNet/IP</li></ul>	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker usable for Standard Faults	
— at 460/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
— 60/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
— at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
— at 575/600 V according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
— 75/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
• of the fuse	, , , , , , , , , , , , , , , , , , ,
usable for Standard Faults up to 575/600 V     according to UL	Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 250 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 300 A; Iq = 10 kA
<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 250 A; Iq = 100 kA
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
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	60 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	40 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	50 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	100 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
safe state	Open load circuit
function test interval maximum	1a
diagnostics test interval by internal test function maximum	1 000 s
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1	1 000 s 0
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value	1 000 s 0 1 000 000
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg)	1 000 s 0 1 000 000 90 %
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd	1 000 s 0 1 000 000
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061	1 000 s 0 1 000 000 90 % 39 a
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061	1 000 s 0 1 000 000 90 % 39 a
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849  performance level (PL) according to ISO 13849-1  category according to ISO 13849-1	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL)	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849  performance level (PL) according to ISO 13849-1  category according to ISO 13849-1  IEC 61508  Safety Integrity Level (SIL)  • according to IEC 61508	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL) • according to IEC 61508 safety device type according to IEC 61508-2	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849  performance level (PL) according to ISO 13849-1  category according to ISO 13849-1  IEC 61508  Safety Integrity Level (SIL)  • according to IEC 61508  safety device type according to IEC 61508-2  PFHD with high demand rate according to IEC 61508	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1 Type B 1E-6 1/h
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL)	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1 Type B 1E-6 1/h 0.09
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL)	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1 Type B 1E-6 1/h 0.09 60 %
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL)	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1  Type B 1E-6 1/h 0.09 60 % 0
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value average diagnostic coverage level (DCavg) MTTFd  IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 PFHD with high demand rate according to IEC 62061 ISO 13849 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 IEC 61508 Safety Integrity Level (SIL)	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1  Type B 1E-6 1/h 0.09 60 % 0
diagnostics test interval by internal test function maximum stop category according to IEC 60204-1  B10d value  average diagnostic coverage level (DCavg)  MTTFd  IEC 62061  Safety Integrity Level (SIL) according to IEC 62061  PFHD with high demand rate according to IEC 62061  ISO 13849  performance level (PL) according to ISO 13849-1  category according to ISO 13849-1  IEC 61508  Safety Integrity Level (SIL)  • according to IEC 61508  safety device type according to IEC 61508-2  PFHD with high demand rate according to IEC 61508  PFDavg with low demand rate according to IEC 61508  Safe failure fraction (SFF)  hardware fault tolerance according to IEC 61508  Electrical Safety	1 000 s 0 1 000 000 90 % 39 a  SIL 1 1E-6 1/h  PL c 2  SIL 1 Type B 1E-6 1/h 0.09 60 % 0 20 a

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]

### **Approvals Certificates**

### **General Product Approval**



Confirmation









EMV

For use in hazardous locations

**Functional Saftey** 

**Test Certificates** 



<u>KC</u>





Type Examination Cer**tificate** 

Type Test Certificates/Test Report

## Marine / Shipping









Confirmation

other



**Environment** 

#### **Environment**



**Environmental Confirmations** 

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=3RW5527-3HF04

Cax online generator

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

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

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

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

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

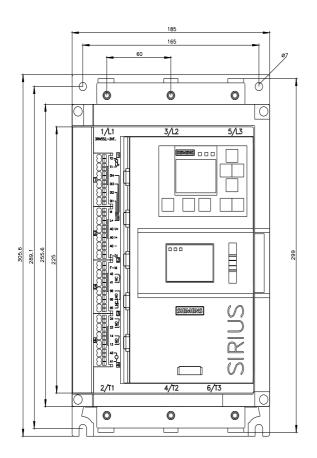
Characteristic: Tripping characteristics, I2t, Let-through current

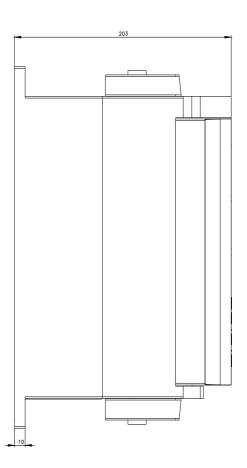
https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HF04/char

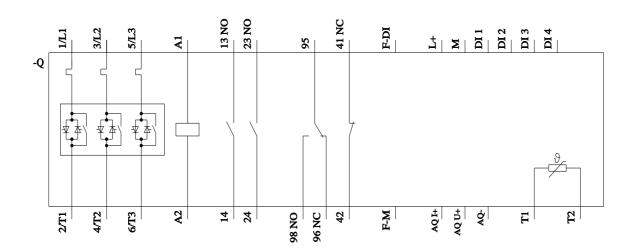
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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