SIEMENS

Data sheet 3RW5526-3HF04



SIRIUS soft starter 200-480 V 77 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	
 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 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3132-6; 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 	3RT1055
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	3RT1055
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	3RT1056
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	3RT1056
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 %

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	V
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
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
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	
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
	Q
rotoroneo cogo accordina to IEC X13/6-2	
reference code according to IEC 81346-2	
Substance Prohibitance (Date)	11/22/2019
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Substance Prohibitance (Date)	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
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Substance Prohibitance (Date) SVHC substance name Weight product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	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-0,0')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3 7.987 kg Yes Yes Yes Yes Yes Yes Yes Ye
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• 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 communication modules
firmware update	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
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
at 40 °C rated value	77 A
• at 40 °C rated value minimum	16 A
• at 50 °C rated value	68 A
• at 60 °C rated value	62 A
operational current at inside-delta circuit	
at 40 °C rated value	133 A
• at 50 °C rated value	118 A
• at 60 °C rated value	107 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	
• at 230 V at 40 °C rated value	22 kW
• at 230 V at inside-delta circuit at 40 °C rated value	37 kW
• at 400 V at 40 °C rated value	37 kW
• at 400 V at inside-delta circuit at 40 °C rated value	75 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	
• at 40 °C after startup	23 W
• at 50 °C after startup	20 W
at 60 °C after startup	19 W
power loss [W] at AC at current limitation 350 $\%$	
 at 40 °C during startup 	1 083 W
 at 50 °C during startup 	921 W
at 60 °C during startup	814 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
 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)
 using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 using the front clamping point stranded 	1x (10 70 mm²)
 using the back clamping point solid 	1x (2.5 16 mm²)
 r box terminal using the back clamping point 	1x (10 2/0)
 using both clamping points solid 	2x (2.5 16 mm²)
 using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
using the back clamping point stranded	1x (10 70 mm²)
type of connectable conductor cross-sections	
• for control circuit solid	2x (0.25 1.5 mm²)
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor 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 terminals	0.8 1.2 N·m
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	
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	
 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)
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

EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	165
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
S	
— 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. 250 A; Iq = 10 kA
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 250 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 250 A; Iq = 10 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to 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	20 hp
 at 220/230 V at 50 °C rated value 	25 hp
• at 460/480 V at 50 °C rated value	50 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	40 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
·	
product function suitable for safety function	Yes
product function suitable for safety function suitability for use	Yes
	Yes No
suitability for use	
suitability for use • safety-related switching on	No
suitability for use safety-related switching on safety-related switching OFF	No Yes
suitability for use	No Yes Open load circuit
suitability for use	No Yes Open load circuit 1 a
suitability for use	No Yes Open load circuit 1 a 1 000 s
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value	No Yes Open load circuit 1 a 1 000 s 0 1 000 000
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum diagnostics test interval by internal test function maximum stop category according to IEC 60204-1	No Yes Open load circuit 1 a 1 000 s 0
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg)	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 %
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum diagnostics test interval by internal test function maximum stop category according to IEC 60204-1 B10d value average diagnostic coverage level (DCavg) MTTFd	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 %
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h PL c 2
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 1 000 s 0 1 000 000 90 % 39 a SIL 1 1E-6 1/h PL c 2
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 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
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 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
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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)	No Yes Open load circuit 1 a 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 %
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 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
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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 T1 value of service life according to IEC 61508	No Yes Open load circuit 1 a 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 %
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 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
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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 protection class IP on the front according to IEC 60529	No Yes Open load circuit 1 a 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
suitability for use • safety-related switching on • safety-related switching OFF safe state function test interval maximum 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	No Yes Open load circuit 1 a 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
 according to ATEX directive 2014/34/EU 	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 Certificate

Type Test Certificates/Test Report

Marine / Shipping









Confirmation

other



Environment

Environment



Environmental Confirmations

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=3RW5526-3HF04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5526-3HF04}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5526-3HF04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

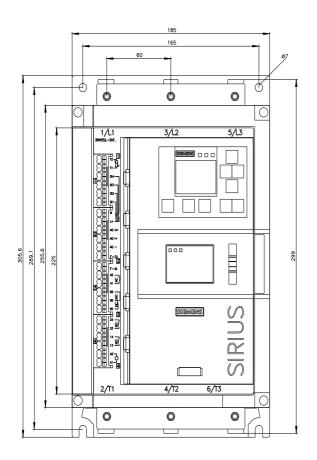
https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HF04/char

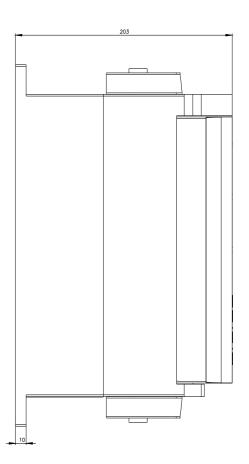
Characteristic: Installation altitude

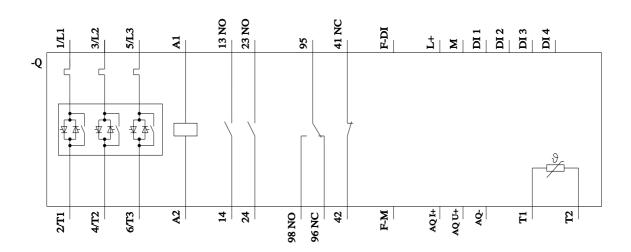
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5526-3HF04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







last modified: 11/25/2024 🖸

