SIEMENS



Data sheet 3RW5516-3HF04



SIRIUS soft starter 200-480 V 32 A, 24 V AC/DC spring-type terminals Failsafe

Figure similar

product category product designation Failsafe soft s product type designation manufacturer's article number of high feature HMI module usable of communication module PROFINET standard Hybrid switching Failsafe soft s 3RW55 RW555 RW5580-0H 3RW5980-0C	
product type designation manufacturer's article number of high feature HMI module usable of communication module PROFINET standard 3RW5980-0C	tarters
manufacturer's article number • of high feature HMI module usable • of communication module PROFINET standard 3RW5980-0C	
 of high feature HMI module usable of communication module PROFINET standard 3RW5980-0H 3RW5980-0H 	
of communication module PROFINET standard <u>3RW5980-0C</u>	
	<u>F00</u>
usable	<u>800</u>
 of communication module PROFINET high-feature usable 	<u>H00</u>
• of communication module PROFIBUS usable 3RW5980-0C	<u>P00</u>
• of communication module Modbus TCP usable 3RW5980-0C	<u>T00</u>
• of communication module Modbus RTU usable 3RW5980-0C	<u>R00</u>
• of communication module Ethernet/IP 3RW5980-0C	<u>E00</u>
• of circuit breaker usable at 400 V 3RV2032-4VA	10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V 3RV2032-4VA	10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	10: Type of coordination 1, Iq = 10 kA, CLASS 10
• of the gG fuse usable up to 690 V 3NA3824-6; T	ype of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	ype of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	ype of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	ype of coordination 2, Iq = 65 kA
• 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	
General technical data	
starting voltage [%] 20 100 %	
stopping voltage [%] 50 %; non-adj	ustable
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 % 125 800 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
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
G	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	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	
• 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	1 600 V
service factor	1.15
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	Q
Substance Prohibitance (Date)	11/22/2019
product function	
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
	Yes
pump ramp down DC braking	Yes
DC braking meter besting	
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
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
 operating measured value display 	Yes
event list	Yes

error logbook	Yes Yes Yes
 via software parameterizable 	Yes
 via software configurable 	
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 	32 A
 at 40 °C rated value minimum 	6.5 A
at 50 °C rated value	28.4 A
at 60 °C rated value	26 A
operational current at inside-delta circuit	
 at 40 °C rated value 	55.4 A
 at 50 °C rated value 	49 A
at 60 °C rated value	45 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 relative negative tolerance of the operating voltage at	_ 10 % 15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	751W
• at 230 V at 40 °C rated value	7.5 kW
at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value	15 kW
• at 400 V at 40 °C rated value	15 kW
at 400 V at inside-delta circuit at 40 °C rated value Operating frequency 4 rated value	22 kW
Operating frequency 1 rated value	50 Hz 60 Hz
Operating frequency 2 rated value relative negative tolerance of the operating frequency	-10 %
relative negative 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	10 W
at 50 °C after startup	9 W
at 60 °C after startup	8 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	519 W
at 50 °C during startup	437 W
at 60 °C during startup	386 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
GPS OF FORMAS OF THE CONTROL SUPPLY FORMAGE	, w. b

control supply voltage at AC	24 V dientudong
 at 50 Hz rated value 	24 V
at 60 Hz rated value	24 V Julo Il Culto III
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	-10 %
voltage frequency	
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	420 mA
holding current in bypass operation rated value	820 mA
locked-rotor current at close of bypass contact maximum	0.91 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 Number of digital outputs with fail-safe	3
 Number of digital outputs with fail-safe 	1
Number of digital outputs with fail-safenumber of digital outputs parameterizable	1 2
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable 	1 2 1
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version 	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value 	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm 152 mm
Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm 152 mm 10 mm
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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 	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
 Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs 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 	1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm

weight without packaging	2.6 kg
Connections/ Terminals	2.0 kg
	- Antinuuuuu
type of electrical connection • for main current circuit	screw-type terminals
• for control circuit	spring-loaded terminals
wire length for thermistor connection	Spring-loaded terminals
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	250 111
• for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
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)
 at AWG cables for control circuit solid 	2x (24 16)
at 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	2 2.5 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	18 22 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 categoryduring 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
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: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
 usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA

 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VAF
usable for Standard Faults at 575/600 V according to UL	Siemens type: 3RV
usable for High Faults at 575/600 V at insidedelta circuit according to UL	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA
usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA
of the fuse	
usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 125 A; Iq = 5 kA
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 125 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. 125 A; Iq = 5 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 125 A; lq = 100 kA
operating power [hp] for 3-phase motors	
at 200/208 V at 50 °C rated value	7.5 hp
• at 220/230 V at 50 °C rated value	10 hp
• at 460/480 V at 50 °C rated value	20 hp
	·
at 200/208 V at inside-delta circuit at 50 °C rated value at 200/200 V at inside delta circuit at 50 °C rated	15 hp
 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 	15 hp 30 hp
value contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Type B
B10d value	1 588 000
Safety Integrity Level (SIL)	
 according to IEC 61508 	SIL1
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 maximum	1 000 s
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	0
T1 value for proof test interval or service life according to IEC 61508	20 y
safe state	Open load circuit
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
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]
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
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 s



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

Lloyds Registe





Confirmation

other

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5516-3HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5516-3HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5516-3HF04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

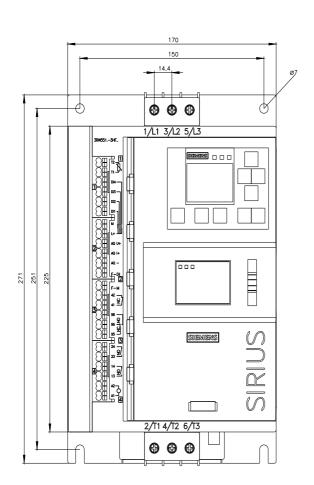
https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HF04/char

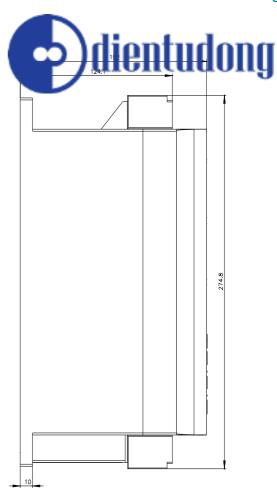
Characteristic: Installation altitude

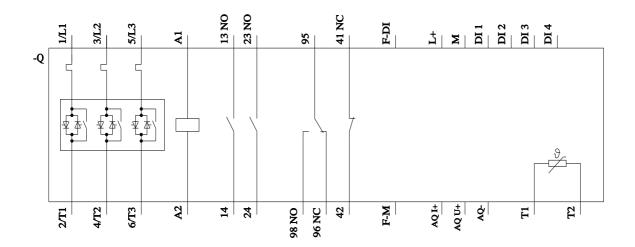
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5516-3HF04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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last modified:

9/12/2022

