SIEMENS



Data sheet 3RW5546-6HF04



SIRIUS soft starter 200-480 V 370 A, 24 V AC/DC Screw terminals Failsafe

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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1334-2; Type of coordination 2, Iq = 65 kA		
 of the redundant contactor for applications > SIL 1 according to EN 62061 	3TF68		
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	3TF68		
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	3TF69		
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	3TF69		
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 %		

	102 000 N
current limiting value [%] adjustable	125 800 % 40 100 % 0 2 s
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
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	
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 safe isolation	4001/1
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
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
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
 via software parameterizable 	Yes

 via software configurable 	Yes					
 screw terminal 	Yes dientudong					
 spring-loaded terminal 	No Jululluuvily					
PROFlenergy	Yes; in connection with PPOFINET 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					
	165					
Power Electronics						
operational current	070 A					
• at 40 °C rated value	370 A					
at 40 °C rated value minimum	74 A					
• at 50 °C rated value	328 A					
at 60 °C rated value	300 A					
operational current at inside-delta circuit						
• at 40 °C rated value	641 A					
• at 50 °C rated value	568 A					
at 60 °C rated value	519 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	110 kW					
 at 230 V at inside-delta circuit at 40 °C rated value 	200 kW					
 at 400 V at 40 °C rated value 	200 kW					
 at 400 V at inside-delta circuit at 40 °C rated value 	355 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	111 W					
at 50 °C after startup	98 W					
at 60 °C after startup	90 W					
power loss [W] at AC at current limitation 350 %						
at 40 °C during startup	5 563 W					
at 50 °C during startup	4 694 W					
at 60 °C during startup	4 145 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 oo Fiz Tatou Value	ET V					

at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 % dientudong
voltage at AC at 50 Hz	/ultilluuvily
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	200
at DC rated value Control Control	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	720 mA
locked-rotor current at close of bypass contact maximum	6.7 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
number of digital inputs	7
with fail-safe	1
with fail-safe parameterizable number of digital outputs	1 4 3
 with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe 	1 4 3 1
 with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable 	1 4 3 1 2
 with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable 	1 4 3 1 2 1
 with fail-safe parameterizable number of digital outputs Number of digital outputs with fail-safe number of digital outputs parameterizable number of digital outputs not parameterizable digital output version 	1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1
with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
 with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
 with fail-safe parameterizable number of digital outputs 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 	1 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
 with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
 with fail-safe parameterizable number of digital outputs 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 4 3 1 2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A
 with fail-safe parameterizable number of digital outputs 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 4 3 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°)
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm 203 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm 203 mm 10 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm 203 mm 10 mm 0 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm 203 mm 10 mm
 with fail-safe parameterizable number of digital outputs 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 4 3 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 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm
 with fail-safe parameterizable number of digital outputs 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 downwards 	1 4 3 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 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm
 with fail-safe parameterizable number of digital outputs 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 downwards at the side 	1 4 3 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 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm

type of electrical connection	diantudana			
for main current circuit	busbar connection screw-type termina) dignituding			
for control circuit	screw-type terminal			
width of connection bar maximum	45 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 DIN cable lug for main contacts stranded 	2x (50 240 mm²)			
for DIN cable lug for main contacts finely stranded	2x (70 240 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	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
processing • at AWG cables for control circuit solid	1, (20 12) 2, (20 14)			
	1x (20 12), 2x (20 14)			
wire length	900 m			
between soft starter and motor maximum at the digital inpute at DC maying up	800 m			
at the digital inputs at DC maximum tightening torque	1 000 m			
tightening torque	44 24 N m			
for main contacts with screw-type terminals for auxiliary and control contacts with acress these	14 24 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	124 210 lbf·in			
for auxiliary and control contacts with screw-type	7 10.3 lbf·in			
terminals	7 10.0 IST III			
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			
a during storage and transport	above -40 +80 °C			
during storage and transport environmental category	-40 +00 C			
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
• during storage according to IEC 60721	mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must			
 during transport according to IEC 60721 	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
EMC emitted interference	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol	400. 10 120 000 11 1 2. Oldoo 11			
communication module is supported				
PROFINET standard	Yes			
PROFINET standard PROFINET high-feature	Yes			
EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
PROFIBUS	Yes			
UL/CSA ratings	100			
manufacturer's article number				
of the fuse				
usable for Standard Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 18 kA			
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA			
usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 18 kA			
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA			
operating power [hp] for 3-phase motors				
• at 200/208 V at 50 °C rated value	100 hp			
• at 220/230 V at 50 °C rated value	125 hp			

 at 460/480 V at 50 °C rated value 	250 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	250 hp 200 hp dientudong
 at 220/230 V at inside-delta circuit at 50 °C rated value 	200 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	450 hp
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	648 000
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
Safe failure fraction (SFF)	60 %
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	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• 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 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 s
Certificates/ approvals	

General Product Approval



Confirmation









EMC For t	use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping	
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Marine / Shipping

other









Confirmation

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=3RW5546-6HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-6HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5546-6HF04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

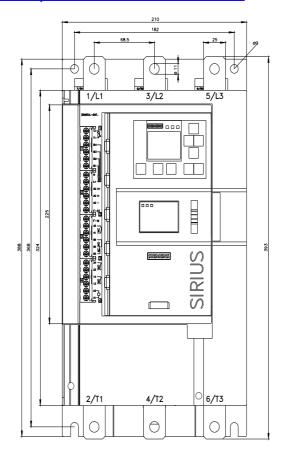
https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HF04/char

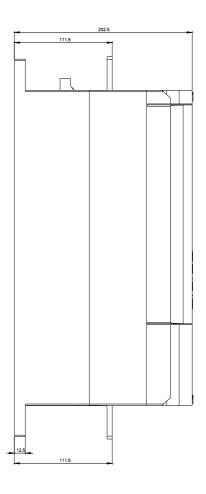
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5546-6HF04&objecttype=14&gridview=view1

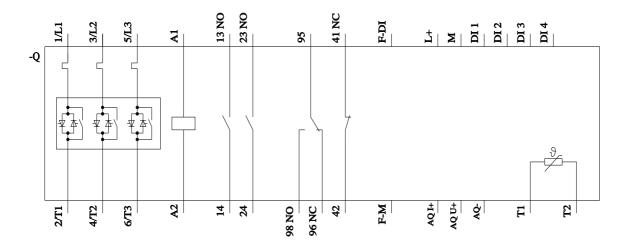
Simulation Tool for Soft Starters (STS)

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









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