SIEMENS



Data sheet 3RW5546-2HF04



SIRIUS soft starter 200-480 V 370 A, 24 V AC/DC spring-type terminals Fail-safe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFINET high-feature usable 	3RW5950-0CH00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2440-7MN32-0AA0; Type of coordination 1, lq = 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
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 %

	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	0 255 s 480 V			
degree of pollution	480 V 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 	No Idientiidona		
 spring-loaded terminal 	Yes Juidikuuvity		
 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		
Power Electronics			
operational current			
at 40 °C rated value	370 A		
at 40 °C rated value 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	300 A		
• at 40 °C rated value	641 A		
at 50 °C rated value at 50 °C rated value	568 A		
at 60 °C rated value	519 A		
	519 A		
operating voltage • rated value	200 480 V		
at inside-delta circuit rated value valetive pagetive televance of the expecting valtege	200 480 V -15 %		
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage			
relative negative tolerance of the operating voltage at	10 % -15 %		
inside-delta circuit	-13 /0		
relative positive tolerance of the operating voltage at	10 %		
inside-delta circuit			
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	7, 11 0		
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC	Noise		
• at 50 Hz rated value	24 V		
▼ at JU LIZ Tated Value	LT V		

at 60 Hz rated value relative negative tolerance of the control supply	24 V -20 % diontudona		
voltage at AC at 50 Hz	-20 % dientudong		
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	0414		
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	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			
inputs/ Outputs			
number of digital inputs	4		
	4		
number of digital inputs			
number of digital inputs • with fail-safe • parameterizable	1		
number of digital inputs • with fail-safe • parameterizable • number of digital outputs	1 4		
number of digital inputs • with fail-safe • parameterizable	1 4 3		
number of digital inputs • with fail-safe • parameterizable • number of digital outputs • Number of digital outputs with fail-safe • number of digital outputs parameterizable	1 4 3 1		
number of digital inputs • with fail-safe • parameterizable • number of digital outputs • Number of digital outputs with fail-safe	1 4 3 1 2		
number of digital inputs • 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 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1		
number of digital inputs • 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)		
number of digital inputs • 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)		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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°)		
number of digital inputs • 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	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		
number of digital inputs • 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 • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs • 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		
number of digital inputs 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 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		
number of digital inputs 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 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		
number of digital inputs 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 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 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		
number of digital inputs 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 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		

type of electrical connection	diantudana		
for main current circuit	busbar connection spring-loaded term		
for control circuit	spring-loaded term		
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	2x (0.25 1.5 mm²)		
for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)		
processing ● at AWG cables for control circuit solid	2x (24 16)		
at AWG cables for control circuit finely stranded with	2x (24 16)		
core end processing	27 (24 10)		
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 	14 24 N·m		
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	124 210 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	2 000 III, Derating as of 1000 III, see catalog		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or		
admig operation	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		
l	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	450. to 125 500 11 1 2. State 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			
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		
circuit up to 37 3/000 V according to 0L			
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		

 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 	100 hp 125 hp 250 hp			
 at 200/208 V at inside-delta circuit at 50 °C rated value 	200 hp			
 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	Туре В			
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 use in hazardou	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=3RW5546-2HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-2HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-2HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5546-2HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

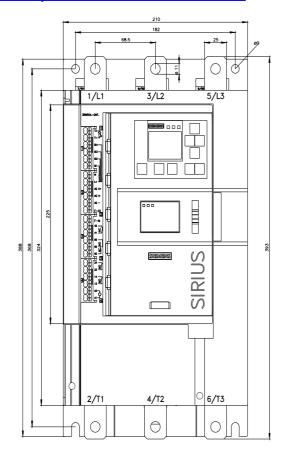
https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-2HF04/char

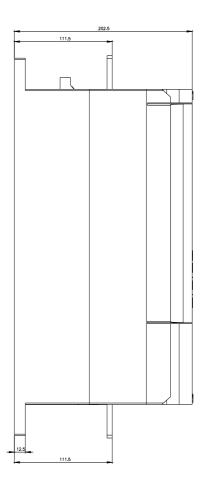
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5546-2HF04&objecttype=14&gridview=view1

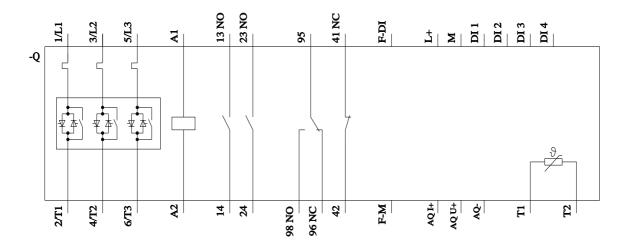
Simulation Tool for Soft Starters (STS)

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









last modified: 5/13/2022 **C**

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