SIEMENS



Data sheet 3RW5545-2HF04



SIRIUS soft starter 200-480 V 315 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, 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 	<u>3RT1076</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT1076</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	3TF68
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	3TF68
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	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 • screw terminal • spring-baseds terminal • pring-baseds terminal • pring-baseds terminal • pring-baseds terminal • removable terminal for control circuit • firmware update • removable terminal for control circuit • vollage ramp • lorgue control • combined braking • analog output • programmable control inputsioutputs • condition monitoring • ves • automatic parameterisation • application witards • alloreative run-down • elemeration witards • elemeration yearstillerisation • of starting at heavy starting conditions • reversing operation • off starting at heavy starting conditions • reversing operation • off starting at heavy starting conditions • reversing operation • off of Critted value • off off orded		
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relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup		
relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup 4 966 W • at 50 °C during startup 4 153 W • at 60 °C during startup 3 646 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		
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup 4 966 W • at 50 °C during startup 4 153 W • at 60 °C during startup 4 153 W • at 60 °C during startup 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		
power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup • at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC		
 at 40 °C after startup at 50 °C after startup at 60 °C after startup 77 W power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup be at 60 °C during startup control circuit/ Control type of voltage of the control supply voltage AC/DC 		10 70, Relative to set le
 at 50 °C after startup at 60 °C after startup 77 W power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup 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 		OE W
 at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup 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 	·	
power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup 1 2 3 646 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 control supply voltage at AC	•	
 at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup 3 646 W type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC AC/DC	· · · · · · · · · · · · · · · · · · ·	/ / VV
 at 50 °C during startup at 60 °C during startup 3 646 W type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC 		4 066 W
◆ at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC Control supply voltage at AC	· .	
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 control supply voltage at AC		
type of voltage of the control supply voltage control supply voltage at AC		
type of voltage of the control supply voltage AC/DC control supply voltage at AC		Electronic, tripping in the event of thermal overload of the motor
control supply voltage at AC		
		AC/DC
at 50 Hz rated value 24 V	at 50 Hz rated value	24 V

at CO III- anto diviniva	041/
at 60 Hz rated value relative negative tolerance of the control supply	24 V -20 % diontudona
voltage at AC at 50 Hz	/ Juightuuvny
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	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
 with fail-safe 	1
parameterizable	4
• number of digital outputs	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 parameterizable	2
 number of digital outputs parameterizable number of digital outputs not parameterizable 	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1
number of digital outputs parameterizable number of digital outputs not parameterizable digital output version	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
number of digital outputs parameterizable number of digital outputs not parameterizable digital output version number of analog outputs	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
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 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1
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	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
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	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A
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	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 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	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 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	2 1 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) 1 3 A 1 A 100 ms
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	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 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	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
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	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 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	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 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	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 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	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 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	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 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 	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 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 	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 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 	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	dientudena
for main current circuit	busbar connection spring-loaded term
for control circuit	
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	0 (50 040 3)
for DIN cable lug for main contacts stranded	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded tune of compactable conductor areas a settings.	2x (70 240 mm²)
type of connectable conductor cross-sections • for control circuit solid	2v (0.25 1.5 mm²)
	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	200
between soft starter and motor maximum	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	14 24 N m
for main contacts with screw-type terminals for auxiliany and control contacts with screw type	14 24 N·m 0.8 1.2 N·m
for auxiliary and control contacts with screw-type terminals	U.8 1.2 N·III
tightening torque [lbf·in]	404 040 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	0.000 B # 54000
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	05
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)
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 DDOFINIS	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker usable for Standard Faults at 460/480 V seconding to III.	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
according to UL — usable for High Faults at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
usable for High Faults at 460/480 V at insidedelta circuit according to UL	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA

inside-deta circuit according to UL of the tase	•	Siemens type: 3VAf
- usable for Standard Faults up to 575600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575600 v according to UL - usable for High Faults at inside-delta circuit up to 575600 v according to UL - usable for High Faults at inside-delta circuit up to 575600 v according to UL - usable for High Faults at inside-delta circuit up to 575600 v according to UL - usable for High Faults at inside-delta circuit up to 575600 v according to UL - usable for High Faults at inside delta circuit up to 575600 v according to UL - usable for High Faults at inside delta circuit up to 575600 v according to UL - usable for High Faults at inside delta circuit up to 575600 v according to UL - usable for High Faults at 1604600 v at 50°C rated value at 480480 v at inside-delta circuit at 50°C rated value at 480480 v at 68060 v at 48060 v at 68060 v at 48060 v at 68060		Siemens type: 3VA
according to UL. — usable for High Faults up to 575/800 V according to U. — usable for Standard Faults at inside-delta circuit up to 575/800 V according to U. — usable for High Faults at inside-delta circuit up to 575/800 V according to U. — usable for High Faults at inside-delta circuit up to 575/800 V according to U. — usable for High Faults at Inside-delta circuit up to 575/800 V according to U. — usable for High Faults at Inside-delta circuit up to 575/800 V according to U. — usable for High Faults value — at 200/208 V at 50° Crated value — at 480/480 V at 50° Crated value — at 480/480 V at inside-delta circuit at 50° Crated value — at 480/480	of the fuse	
according to U.L — usable for Slandard Faults at inside-delta circuit up to 575/600 V according to U.L — usable for High Faults at inside-delta circuit up to 575/600 V according to U.L Type: Class J / L, max. 1000 A; Iq = 18 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 ka Type: Class J / L, max. 1000 ka Type: Class J / L, max. 1000 ka Type:	·	Type: Class J / L, max. 1000 A; Iq = 18 kA
circuit up to 575/600 V according to UI. — usable for High Faults at inside-delta circuit up to 575/600 V according to UI. Type: Class J / L, max. 1000 A: Iq = 100 kA to 575/600 V according to UI. 75 fp at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UI. R300-8300 R36fety related data safety device type according to IEC 61508-2 B10d value Safety related data Safety related bates caccording to IEC 61508 relating (safety data data data data data data data da	· ·	Type: Class J / L, max. 1000 A; Iq = 100 kA
to 575/600 V according to UL operating power (hp) for 3 phase motors • at 200/208 V at 50 °C rated value • at 4200/208 V at 50 °C rated value • at 4200/208 V at 50 °C rated value • at 4200/208 V at inside-detta circuit at 50 °C rated value • at 4200/208 V at inside-detta circuit at 50 °C rated value • at 4200/208 V at inside-detta circuit at 50 °C rated value • at 460/480 V at inside-detta circuit at 50 °C rated value • at 460/480 V at inside-detta circuit at 50 °C rated value • at 460/480 V at inside-detta circuit at 50 °C rated value • at 460/480 V at inside-detta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety risted data safety device type according to IEC 61508-2 B10d value 34 7000 34 8 3		Type: Class J / L, max. 1000 A; Iq = 18 kA
at 200/208 V at 50 °C rated value at 4200/208 V at 50 °C rated value at 4200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 4400/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety rotated data safety device type according to IEC 61508-2 B100 value Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 52061 performance level (PL) according to EN 5013849-1 category according to EN 8013849-1 category according to EN 60204-1 Safe failure fraction (SFF) average diagnostic coverage level (DCavg) diagnostics test interval by Internal test function maximum PFHD with high demand rate according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof test interval or service life according to IEC 61508 T yelse for proof te		Type: Class J / L, max. 1000 A; Iq = 100 kA
at 220/230 V at 150 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value 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 value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 400 hp at 670 V at 670	operating power [hp] for 3-phase motors	
at 480/480 V at 150 °C reted value at 200/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 480/480 V at inside-delta circuit at 50 °C rated value at 480/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data safety device type according to IEC 61508-2 B100 value Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Lintt (subsystem) according to EN 82081 performance level (PL) according to EN 82081 performance level	at 200/208 V at 50 °C rated value	75 hp
e at 200/208 V at inside-delta circuit at 50 °C rated value e at 420/230 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data safety device type according to IEC 61508-2 B10d value Safety Integrity Level (SIL) e according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN 180 13849-1 category according to EN 6013494-1 category according to EN 60204-1 Safe failure fraction (SFF) everage diagnostic coverage level (DCavg) diagnostics test interval by internal test function maximum PPFDavg with low demand rate according to IEC 61508 TI value for proof test interval or service life according to IEC 60529 electromagnetic compatibility ATEX e IECEs PFDavg with low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay with low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDay gwith low demand rate according to IEC 61508 rolating to ATEX PFDAY gwith low demand rate according to IEC 61508 rolating to ATEX PFDAY gwith low demand rate according to IEC 61508 rolating to ATEX PFDAY gwith low demand rate according to	 at 220/230 V at 50 °C rated value 	100 hp
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2014/34/EU I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life I (M2) [Ex db Mb] 0.008 SIL1	according to ATEX directive 2014/34/EU	BVS 18 ATEX F 003 X
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 0.008 SE-7 1/h SIL1	· · ·	
relating to ATEX 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 3 s		0
relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life 3 s		0.008
relating to ATEX T1 value for proof test interval or service life 3 s		5E-7 1/h
		SIL1
		3 s





Confirmation









EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping









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=3RW5545-2HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-2HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5545-2HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

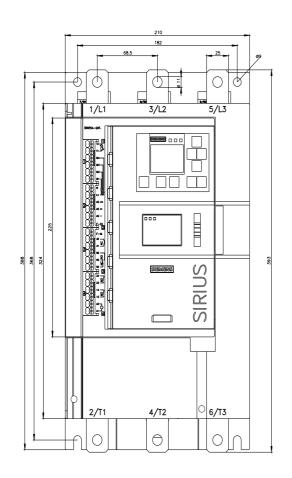
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HF04/char

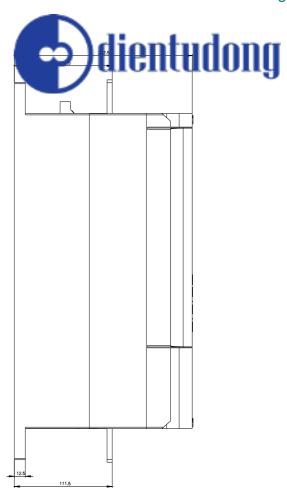
Characteristic: Installation altitude

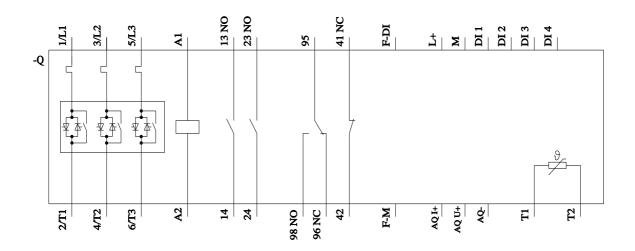
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5545-2HF04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







Hotline: 0909000786 - lam@dientudong.com



last modified:



