# **SIEMENS**

Data sheet 3RW5534-6HF14



SIRIUS soft starter 200-480 V 113 A, 110-250 V AC, Screw terminals Fail-safe

Figure similar

product brand name product category product designation product type designation manufacturer's article number

- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFINET high-feature usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- $\bullet$  of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V
- of the redundant contactor for applications > SIL 1 according to EN 62061
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061
- of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1
- of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1

SIRIUS

Hybrid switching devices Failsafe soft starters

3RW55

3RW5980-0HF00

3RW5980-0CS00

3RW5950-0CH00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

<u>3VA2216-7MN32-0AA0</u>; Type of coordination 1, Iq = 65 kA, CLASS 10 <u>3VA2220-7MN32-0AA0</u>; Type of coordination 1, Iq = 65 kA, CLASS 10

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NE1225-0; Type of coordination 2, Iq = 65 kA

3NE3231; Type of coordination 2, Iq = 65 kA

3RT1056

3RT1056

3RT1065

3RT1065

## General technical data

starting voltage [%]
stopping voltage [%]
start-up ramp time of soft starter
ramp-down time of soft starter
start torque [%]
stopping torque [%]
torque limitation [%]
current limiting value [%] adjustable
breakaway voltage [%] adjustable
breakaway time adjustable

20 ... 100 %

50 %; non-adjustable

0 ... 360 s 0 ... 360 s

10 ... 100 %

10 ... 100 %

20 ... 200 %

125 ... 800 % 40 ... 100 %

0 ... 2 s

number of parameter sets 3 accuracy class according to IEC 61557-12 5 % certificate of suitability CE marking Yes UL approval Yes Yes CSA approval product component • HMI-High Feature Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3 CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 trip class 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 0 ... 255 s idle time adjustable 480 V insulation voltage rated value 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 1.15 service factor surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation · between main and auxiliary circuit 480 V; does not apply for thermistor connection 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting shock resistance 15 mm up to 6 Hz; 2 g up to 500 Hz vibration resistance 60 ... 1 800 s recovery time after overload trip adjustable utilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81346-2 Q 11/22/2019 **Substance Prohibitance (Date)** product function Yes • ramp-up (soft starting) Yes ramp-down (soft stop) 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 · 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 • 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 Yes error logbook Yes • via software parameterizable • via software configurable Yes screw terminal Yes spring-loaded terminal Yes; in connection with the PROFINET Standard and PROFINET High- PROFlenergy Feature communication modules • firmware update

• removable terminal for control circuit

Yes

oranibate braking     oranibate braking     oranibate braking     oranibate braking     oranibate braking     oranibate braking     oranibate control inputsoutputs     oranibate control inputsoutputs     oranibate control inputsoutputs     oranibate braking     oranibate control inputsoutputs     oranibate braking     orani	voltage ramp	Yes
analog output	torque control	Yes
analog output	combined braking	Yes
one control monitoring		Yes; 4 20 mA (default) / 0 10 V
ocndition monitoring     ocal decide parameterisation     ocal policiation wizards     ocal adjusted run-down     ocal salaring at heavy starting conditions     ves     ocal starting at heavy starting conditions     ves     oc		Yes
application vizards alternative nun-down emergency operation mode eves ever-sing operation events in peration events in a control of the con		Yes
alternative nun-down emergency operation mode emergency operation mode emergency operation with the service of the operating operation operations current at 40 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at	<ul> <li>automatic parameterisation</li> </ul>	Yes
e emergency operation mode e reversing operation soft starting at heavy starting conditions  **Sower Electronics**  **Ower Electroni	<ul> <li>application wizards</li> </ul>	Yes
e reversing operation e soft starting at heavy starting conditions  Power Electronics  operational current  at 40 °C rated value   113 A   23 A   24 O °C rated value   101 A   28 O °C rated value   105 A   28 O °C rated value   105 A   28 O °C rated value   105 A   28 O °C rated value   15 A   28 O °C rated value   20 O ··· 480 °V   20 O °V   20	<ul> <li>alternative run-down</li> </ul>	Yes
e soft starting at heavy starting conditions  Power Electronics  perational current  at 40 °C rated value minimum  at 50 °C rated value 89 A  at 60 °C rated value 89 A  operational current at inside-delta circuit  at 40 °C rated value 175 A  at 50 °C rated value 175 A  at 50 °C rated value 175 A  at 60 °C rat	<ul> <li>emergency operation mode</li> </ul>	Yes
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at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  type of the motor protection  type of voltage of the control supply voltage control supply voltage at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  27 W  1500 W  1 279 W  1 279 W  1 074 W  Electronic, tripping in the event of thermal overload of the motor  AC  control supply voltage at AC  110 250 V  110 250 V  -15 %  -15 %  10 %  -15 %	•	
power loss [W] at AC at current limitation 350 %  • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup type of the motor protection    Control circuit/ Control	·	
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>type of voltage of the control supply voltage control supply voltage at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> </ul>	•	Z / VV
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> </ul> Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>110 250 V</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> </ul>		1.500 W
• 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 control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %	• •	
type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at 50 Hz  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V  110 250 V  10 %  10 %  10 %  10 %  50 60 Hz		
type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  50 60 Hz		
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control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %		AC
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 50 Hz</li> <li>relative negative tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>relative positive tolerance of the control supply voltage at AC at 60 Hz</li> <li>control supply voltage frequency</li> <li>10 %</li> <li>50 60 Hz</li> </ul>		
● at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  110 250 V  -15 %  10 %  50 60 Hz		110 250 V
voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  50 60 Hz	● at 60 Hz	
voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency  50 60 Hz		-15 %
voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency  50 60 Hz		10 %
voltage at AC at 60 Hz control supply voltage frequency 50 60 Hz	voltage at AC at 60 Hz	
	voltage at AC at 60 Hz	
relative negative tolerance of the control supply -10 %		
	relative negative tolerance of the control supply	-10 %

voltago fraguency	
voltage frequency relative positive tolerance of the control supply	10 %
voltage frequency	10 /0
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	180 mA
inrush current by closing the bypass contacts	0.8 A
maximum	
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 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
д.	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
<ul> <li>parameterizable</li> </ul>	4
<ul> <li>number of digital outputs</li> </ul>	3
<ul> <li>Number of digital outputs with fail-safe</li> </ul>	1
<ul> <li>number of digital outputs parameterizable</li> </ul>	2
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Response times	400
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
mounting position fastening method	screw fixing
mounting position fastening method height	screw fixing 306 mm
mounting position fastening method height width	screw fixing 306 mm 185 mm
mounting position fastening method height width depth	screw fixing 306 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	screw fixing 306 mm 185 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	screw fixing 306 mm 185 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m  2x (16 95 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m  2x (16 95 mm²) 2x (25 120 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m  2x (16 95 mm²) 2x (25 120 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m  2x (16 95 mm²) 2x (25 120 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m  2x (16 95 mm²) 2x (25 120 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
mounting position fastening method height width depth required spacing with side-by-side mounting	screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 6.85 kg  busbar connection screw-type terminals 25 mm  50 m 150 m 250 m 2x (16 95 mm²) 2x (25 120 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 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	89 124 lbf·in
for auxiliary and control contacts with screw-type	7 10.3 lbf·in
terminals	
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
• during operation	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	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     PROFINET birth feature	Yes
<ul><li>PROFINET high-feature</li><li>EtherNet/IP</li></ul>	Yes Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
<ul> <li>usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
<ul> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
according to UL  — usable for High Faults up to 575/600 V	Type: Class J / L, max. 350 A; lq = 100 kA
according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 350 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
at 200/208 V at 50 °C rated value	30 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	30 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	75 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	50 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	60 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	125 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	500 000
Safety Integrity Level (SIL)	
<ul> <li>according to IEC 61508</li> </ul>	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 a
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
- IECEx
- according to ATEX directive 2014/34/EU

type of protection according to ATEX directive 2014/34/EU

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 according to IEC 61508 relating to ATEX

Yes

Yes

BVS 18 ATEX F 003 X

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]

0.008

5E-7 1/h

SIL1

3 a

### Certificates/ approvals

# **General Product Approval**



Confirmation









**EMC** For use in hazardous locations **Declaration of** Conformity

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other







# Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5534-6HF14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5534-6HF14}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HF14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5534-6HF14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

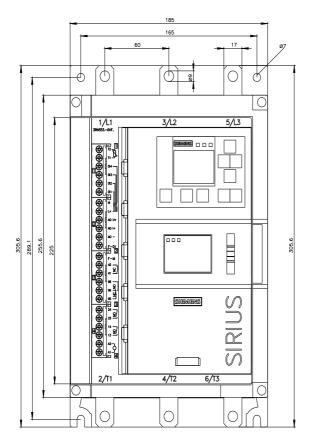
https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HF14/char

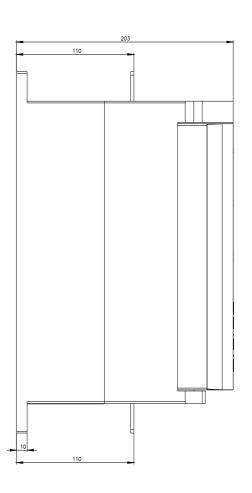
Characteristic: Installation altitude

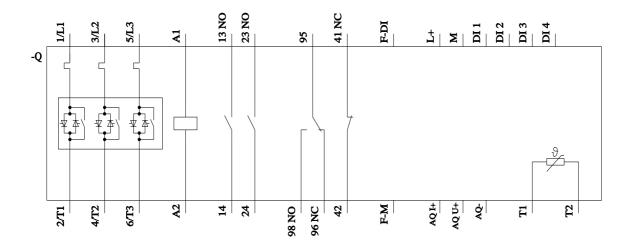
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5534-6HF14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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