SIEMENS

Data sheet 3RW5534-6HF04



SIRIUS soft starter 200-480 V 113 A, 24 V AC/DC 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

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 	113 A
 at 40 °C rated value minimum 	23 A
at 50 °C rated value	101 A
• at 60 °C rated value	89 A
operational current at inside-delta circuit	400.4
• at 40 °C rated value	196 A
• at 50 °C rated value	175 A
at 60 °C rated value	154 A
operating voltage • rated value	200 480 V
at inside-delta circuit rated value	200 480 V 200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	10 /0
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	30 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	55 kW
 at 400 V at 40 °C rated value 	55 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	110 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	041W
• at 40 °C after startup	34 W
• at 50 °C after startup	30 W 27 W
 at 60 °C after startup power loss [W] at AC at current limitation 350 % 	ZI VV
• at 40 °C during startup	1 500 W
• at 50 °C during startup	1 279 W
• at 60 °C during startup	1 074 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %

voltage frequency	
relative positive tolerance of the control supply	10 %
voltage frequency	10 70
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	870 mA
inrush current by closing the bypass contacts	6.3 A
maximum inrush current peak at application of control supply voltage	7.5 A
maximum duration of inrush current peak at application of control	20 ms
supply voltage	
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 parameterizable	2
number of digital outputs not parameterizable	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°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
upwards	100
·	100 mm
• downwards	75 mm
downwardsat the side	75 mm 5 mm
downwardsat the sideweight without packaging	75 mm
downwards at the side weight without packaging Connections/ Terminals	75 mm 5 mm
 downwards at the side weight without packaging Connections/ Terminals type of electrical connection 	75 mm 5 mm 6.85 kg
downwards at the side weight without packaging Connections/ Terminals	75 mm 5 mm 6.85 kg busbar connection
downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit	75 mm 5 mm 6.85 kg
downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit	75 mm 5 mm 6.85 kg busbar connection screw-type terminals
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	75 mm 5 mm 6.85 kg busbar connection screw-type terminals
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	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm
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	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm 50 m
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 with conductor cross-section = 1.5 mm² maximum	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm 50 m 150 m
o at the side weight without packaging Connections/ Terminals type of electrical connection o for main current circuit o for control circuit width of connection bar maximum wire length for thermistor connection o with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum o with conductor cross-section = 2.5 mm² maximum	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm²)
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 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm 50 m 150 m 250 m
o downwards o at the side weight without packaging Connections/ Terminals type of electrical connection o for main current circuit o for control circuit width of connection bar maximum wire length for thermistor connection o with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-sections of connectable conductor cross-sections of DIN cable lug for main contacts stranded	75 mm 5 mm 6.85 kg busbar connection screw-type terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm²)

for control circuit finely stranded with core end processing.	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing • at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	(=0=), = (=0)
 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	10 14 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	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 storage and transport	above -40 +80 °C
environmental category	1000
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
3 ,	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
a during transport asserting to IEO 00704	not get inside the devices), 1M4
during transport according to IEC 60721 EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
	acc. to fee 00947-4-2. Class A
Communication/ Protocol	
communication module is supported • PROFINET standard	Yes
PROFINET standard PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
Modbus TCP	Yes
Modbus TCPPROFIBUS	Yes
Modbus TCP PROFIBUS UL/CSA ratings	Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V	Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according	Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V	Yes Yes Yes Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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Modbus TCP PROFIBUS PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V at inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value	Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class J / L, max. 350 A; lq = 100 kA 30 hp 30 hp

• at 220/230 V at inside-delta circuit at 50 °C rated 60 hp • at 460/480 V at inside-delta circuit at 50 °C rated 125 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data safety device type according to IEC 61508-2 Type B B10d value 500 000 Safety Integrity Level (SIL) SIL1 according to IEC 61508 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 0 stop category according to EN 60204-1 Safe failure fraction (SFF) 60 % average diagnostic coverage level (DCavg) 90 % diagnostics test interval by internal test function 1 000 s maximum 1E-6 1/h PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 0.09 hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to 20 a IEC 61508 Open load circuit safe state protection class IP on the front according to IEC IP00; IP20 with cover 60529 finger-safe, for vertical contact from the front with cover touch protection on the front according to IEC 60529 acc. to IEC 60947-4-2 electromagnetic compatibility 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 II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] 0 hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5E-7 1/h relating to ATEX

Certificates/ approvals

relating to ATEX

General Product Approval





Safety Integrity Level (SIL) according to IEC 61508

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

Confirmation







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

SIL1

3 a









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=3RW5534-6HF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5534-6HF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5534-6HF04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

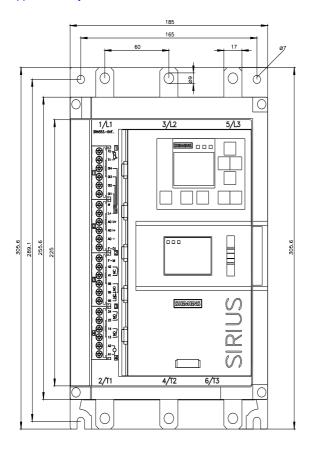
https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HF04/char

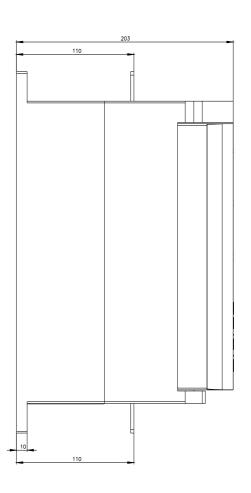
Characteristic: Installation altitude

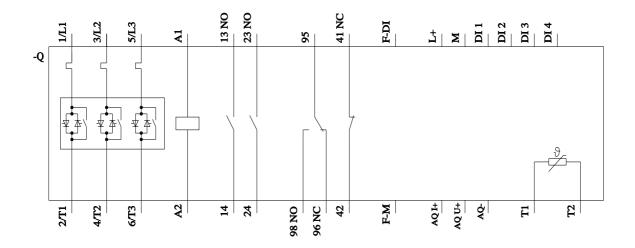
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5534-6HF04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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