SIEMENS

Data sheet 3RW5553-2HA16



SIRIUS soft starter 200-690 V 720 A, 110-250 V AC Spring-type terminals

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
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 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2510-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, lq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NB3351-1KK26; Type of coordination 2, lq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NC3343-1U: Type of coordination 2, Iq = 65 kA
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 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
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	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation	000 \/.
between main and auxiliary circuit check registance.	690 V; does not apply for thermistor connection
shock resistance vibration resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	15 mm up to 6 Hz; 2 g up to 500 Hz 60 1 800 s
	AC 53a
utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2	Q Q
Substance Prohibitance (Date)	02/11/2019
product function	02/11/2013
• 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)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes; Only up to 600 V operating voltage
• 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
spring-loaded terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET 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 condition monitoring	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	
•	700 A
at 40 °C rated value	720 A
at 40 °C rated value minimum	144 A
• at 50 °C rated value	641 A
at 60 °C rated value	580 A
operational current at inside-delta circuit	
 at 40 °C rated value 	1 247 A
at 50 °C rated value	1 110 A
at 60 °C rated value	1 005 A
operating voltage	
• rated value	200 690 V
at inside-delta circuit rated value	200 600 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	
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	200 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	400 kW
 at 400 V at 40 °C rated value 	400 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	710 kW
 at 500 V at 40 °C rated value 	500 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	800 kW
at 690 V at 40 °C rated value	710 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	216 W
at 50 °C after startup	170 W
at 60 °C after startup	139 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	11 534 W
• at 50 °C during startup	9 773 W
• at 60 °C during startup	8 497 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 050 \
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 % -
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage	-10 %

volativa positiva talavanas af the control	10.07
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	210 mA
inrush current by closing the bypass contacts maximum	1 A
inrush current peak at application of control supply voltage maximum	44 A
duration of inrush current peak at application of control supply voltage	1.7 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
parameterizable	4
 number of digital outputs 	4
 number of digital outputs parameterizable 	3
 number of digital outputs not parameterizable 	1
digital output version	3 normally-open contacts (NO) / 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
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	764 mm
width	478 mm
depth	241 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	45 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit	busbar connection
• for control circuit	spring-loaded terminals
width of connection bar maximum	55 mm
wire length for thermistor connection	00 11111
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 mm maximum with conductor cross-section = 1.5 mm² maximum	150 m
with conductor cross-section = 1.5 mm maximum with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	200 111
	2v /50 240 mm²)
for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded	2x (50 240 mm²) 2x (70 240 mm²)
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	۵۸ (۱۷ ۲۹۷ ۱۱۱۱۱۱)
type of connectable conductor cross-sections	2v /0.25 1.5 mm²)
for control circuit solid for control circuit finely stranded with core and processing.	2x (0.25 1.5 mm²)
for control circuit finely stranded with core end processing for AWG cables for control circuit solid.	2x (0.25 1.5 mm²)
for AWG cables for control circuit solid for AWG cables for control circuit finally stranded with	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
between soft starter and motor maximum	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	1 000 111
agazoning torquo	
• for main contacts with screw-type terminals	20 35 N·m
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 	20 35 N·m 0.8 1.2 N·m

* for man contacts with screw-type terminals * for auxiliary and control contacts with screw-type sterminals * for auxiliary and control contacts with screw-type sterminals * for auxiliary and control contacts with screw-type sterminals * for auxiliary and control contacts with screw-type sterminals * for auxiliary and control contacts with screw-type sterminals * during storage and transport * during storage and transport * during storage and transport * during storage according to IEC 60721 * during storage scoording to IEC 60721 * during storage scoording to IEC 60721 * during storage scoording to IEC 60721 * during transport according to IEC 60721 * during storage scoording to IEC 60721 * during storage sc		
Ambient conditions: Ambient conditions: Installation all height above sea level maximum ambient temperature - during storage and transport - during storage and transport - during storage according to IEC 60721 - process of the storage according to IEC 60721 - during storage according to IEC 60723 - during storage	tightening torque [lbf·in]	4== 0.00 H ft
Ambient conditions Installation attribute in the light above sea level maximum ambient temperature - during operation - during storage and bransport - during storage according to IEC 60721 - EMC emitted interference - communication Protected - PROFINET standard - P	•	
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4.0 uning generation 2.5 + 60 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observe derating at temperatures of 40 °C or above 4.0 + 80 °C. Please observederating at temperatures of 40 °C or above 4.0 + 80 °C. Please observederating at temperatures of 40 °C or above 4.0 + 80 °C. Please observederating at temperatures of 40 °C or above 4.0 °C. Please observederating at temperatures of 40 °C or above 4.0 °C. Please observederating at temperatures of 40 °C or above 4.0 °C. Please observederating observederating 4.0 °C. Please observedera		2 000 III, Defauling as of 1000 III, see catalog
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environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Myrotiocal • PROFINET standard • PROFINET stan	- 1	
• during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • EMP Centited interference • REOFINET standard • PROFINET		-40 +80 °C
- during storage according to IEC 60721 - during transport according to IEC 60721 - during transport according to IEC 60721 EMC emitted interference - communication / Protocol - Communication / Protocol - RPG/FINET standard - PRG/FINET standard - PRG/FINET right-feature - Elienthet/IP - Modbus RTU - Modbus RTU - Modbus TCP - Yes - MROFINED - Modbus TCP - Yes - MROFINED - Modbus TCP - Usable for Standard Faults up to 575/600 V according to ILC - Usable for High Faults up to 575/600 V according to ILC - Usable for High Faults up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for Standard Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for Standard Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for Standard Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for Standard Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for Standard Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at Inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at Inside-delta circuit up to 575/600 V according to ILC - Usable for High Faults at Inside delta circuit up to 575/600 V according to ILC 61000 V according to ILC 6100 V ac		
• during storage according to IEC 60721 146 (enly occasional condensation), IC2 (no salt mist), IS2 (sand must not get inside the devices, INC and the d	during operation according to IEC 60721	
Communication Protocol	• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
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communication module is supported PROF (INET standard PROF (INET) PROF (INUS PROF	EMC emitted interference	acc. to IEC 60947-4-2: Class A
PROFINET standard PROFINET high-feature PROFINET high-feature PROFINED Yes Modous RTU Modous RTU Modous RTU PROFIEUS Yes PROFIEUS Yes PROFIEUS Type: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 100 kA Type: Class J / L, max	Communication/ Protocol	
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	* *	Yes
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IEC 61508 relating to ATEX

Certificates/ approvals

General Product Approval

EMC



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5553-2HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-2HA16

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

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-2HA16}}$

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5553-2HA16&lang=en

 $\label{lem:characteristic} \textbf{Characteristics}, \ l^2t, \ \textbf{Let-through current}$

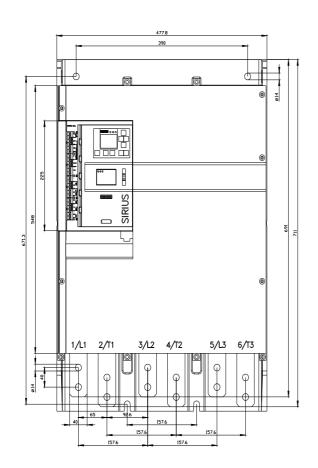
https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-2HA16/char

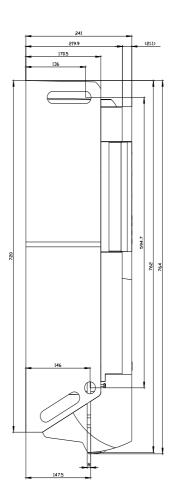
Characteristic: Installation altitude

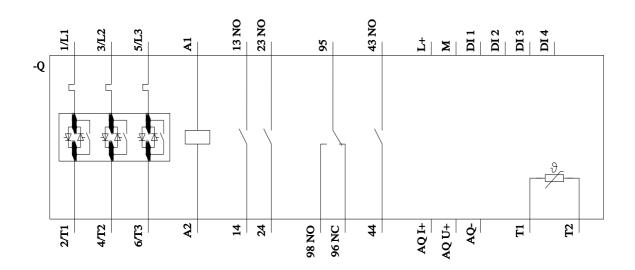
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5553-2HA16\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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