SIEMENS

Data sheet

3RW5545-2HA04



SIRIUS soft starter 200-480 V 315 A, 24 V AC/DC spring-type terminals

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 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 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 	<u>3NE1334-2; Type of coordination 2, Iq = 65 kA</u>
of back-up R fuse link for semiconductor protection	3NE3336: Type of coordination 2. In = 65 kA

 \bullet of back-up R fuse link for semiconductor protection usable up to 690 V

3NE3336; Type of coordination 2, Iq = 65 kA

General technical data

seneral 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	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 protective separation	
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)	02/15/2018
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down	Yes
DC braking	Yes
motor heating	Yes
slave pointer function	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
communication function	Yes
 operating measured value display 	Yes
event list	Yes
• error logbook	Yes
 via software parameterizable 	Yes
• via software configurable	Yes
screw terminal	No
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 	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 	315 A
 at 40 °C rated value minimum 	63 A
• at 50 °C rated value	279 A
• at 60 °C rated value	255 A
operational current at inside-delta circuit	
• at 40 °C rated value	546 A
• at 50 °C rated value	483 A
• at 60 °C rated value	442 A
operating voltage	
 rated value 	200 480 V
at inside-delta circuit rated value	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 inside-delta circuit	-15 %
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 	90 kW
• at 230 V at inside-delta circuit at 40 °C rated value	160 kW
• at 400 V at 40 °C rated value	160 kW
• at 400 V at inside-delta circuit at 40 °C rated value	315 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	95 W
• at 50 °C after startup	84 W
at 60 °C after startup	77 W
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	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	
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 voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	

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 inrush current by closing the bypass contacts 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 7.5 A 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	at DC rated value	24 V
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breaker (cue = 600 A), C6 miniature circuit breaker (cue = 300 A); Is not part of some of supply number of digital inputs 4 • parameterizable 4 • number of digital outputs parameterizable 3 • number of digital outputs parameterizable 1 • digital outputs version 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 • extiching capacity current of the relay outputs 3 • at AC-15 at 250 V rated value 3 A • at C-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1A Installation Moniting dimensions 20 mm required spacing with side by-side mounting ecreation • forwards 0 mm • oparametic 10 mm • packwards 0 mm • oparametic 5 mm </td <td>design of the overvoltage protection</td> <td>Varistor</td>	design of the overvoltage protection	Varistor
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• at AC-15 at 240 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions • vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • backwards 0 mm • downwards 75 mm • downwards 75 mm • at the side 5 mm weight without packaging 10.2 kg Connections/ Torminals 5 mm width of connection har maximum 45 mm with conductor cross-section = 0.5 mm³ maximum 50 m • with conductor cross-section = 1.5 mm³ maximum 50 m • with conductor cross-section = 2.5 mm³ maximum 50 m • with conductor cross-sections 2x (50 240 mm³) • for onsin current circuit 2x (0 240 mm²) • with conductor cross-sections 2x (0 240 mm²) • for DIN cable lug for main contacts finely stranded 2x (0 240 m²) • for DIN cable lug for main contacts finely stranded 2x (0 240 m²) • for Control circuit finely stranded with core end processing 2x (0 15 mm²) <	number of analog outputs	
• at DC-13 at 24 V rated value 1 A Instaliator/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting - • forwards 0 mm • backwards 0 mm • upwards 75 mm • at the side 5	switching capacity current of the relay outputs	
Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilled forward or backward +/- 22.5°) fastening method screw fixing height 393 mm width 210 mm depth 203 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 • at the side 5 mm • torwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm • for ranin current circuit spring-loaded terminals width of connection 45 mm • with conductor cross-section = 0.5 mm ² maximum 250 m • with conductor cross-section = 2.5 mm ² maximum 250 m • tor DNI cable lug for main contacts franded 2x (50 240 mm ²) • for control circuit finely stranded with core end processing 2x (02.5 1.5 mm ³) • for Control circuit finely stranded with core end processing 2x (02 1.5 mm ³) <td>at AC-15 at 250 V rated value</td> <td>3 A</td>	at AC-15 at 250 V rated value	3 A
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mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 10.2 kg Connections/ Terminals 50 m type of electrical connection 50 m • for control circuit spring-loaded terminals width of connection bar maximum 45 mm • with conductor cross-section = 0.5 mm ^a maximum 50 m • with conductor cross-section = 1.5 mm ^a maximum 50 m • with conductor cross-section = 2.5 mm ^a maximum 250 m • for DIN cable lug for main contacts finely stranded 2x (70 240 mm ^a) • for control circuit finely stranded with core end processing 2x (0.25 1.5 mm ^a) • for control circuit finely stranded with core end processing 2x (24 16) <td>Installation/ mounting/ dimensions</td> <td></td>	Installation/ mounting/ dimensions	
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width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 10.2 kg Connections/ Terminals 50 mm vite length for thermistor connection 45 mm • for control circuit spring-loaded terminals with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • for DIN cable lug for main contacts stranded 2x (50 240 mm ²) • for control circuit solid 2x (025 1.5 mm ²) • for control circuit solid 2x (025 1.5 mm ²) • for control circuit solid 2x (025 1.5 mm ²) • for control circuit finely stranded with core end processing 2x (025 1.5 mm ²) • for control circuit finely stranded with core end processing 2x (24 16) • for AWG cables for control circuit finely stranded with core end processing 2x (24 16) • for WG cables for control circuit finely stranded with core end processing 2x (24 16)		
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for AWG cables for control circuit finely stranded with core end processing 2x (24 16) 2x (24 16) 800 m	 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
core end processing initial content of the second of the	 for AWG cables for control circuit solid 	2x (24 16)
between soft starter and motor maximum 800 m	· · · · · ·	2x (24 16)
	wire length	
at the digital inputs at DC maximum 1 000 m	 between soft starter and motor maximum 	800 m
	 at the digital inputs at DC maximum 	1 000 m
tightening torque	•	

· · · · · · · · · ·	
 for main contacts with screw-type terminals 	14 24 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
	124 210 lbf·in
 for main contacts with screw-type terminals for auxiliary and control contacts with screw type 	7 10.3 lbf-in
 for auxiliary and control contacts with screw-type terminals 	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or 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 standard PROFINET high-feature	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
usable for Standard Faults at 460/480 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
to UL	Siemens type. 37733, max. 400 A of 37734, max. 000 A, iq = 10 kA
 — 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-	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
delta circuit according to UL	
 — usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA
to UL	
— usable for High Faults at 575/600 V at inside-delta	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
circuit according to UL	Sigmans type: $21/454$ may 600 4: $1a = 18 k$
 — usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA54, max. 600 A; lq = 18 kA
• of the fuse	
— usable for Standard Faults up to 575/600 V	Type: Class J / L, max. 1000 A; lq = 18 kA
according to UL	
 usable for High Faults up to 575/600 V according to 	Type: Class J / L, max. 1000 A; lq = 100 kA
UL	Type: Class $1/1$ may 1000 A: $h = 10 kA$
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1000 A; lq = 18 kA
usable for High Faults at inside-delta circuit up to	Type: Class J / L, max. 1000 A; lq = 100 kA
575/600 V according to UL	
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	75 hp
• at 220/230 V at 50 °C rated value	100 hp
• at 460/480 V at 50 °C rated value	200 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	150 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	200 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	400 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	

certificate of suitability						
• ATEX			Yes			
• IECEx			Yes			
 according to ATEX 	directive 2014/34/EU		BVS 18 A	TEX F 003 X		
type of protection accor	ding to ATEX direct	ive 2014/34/EU	II (2)G [Ex [Ex db Mb		[Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2
hardware fault tolerance ATEX	according to IEC 6	1508 relating to	0			
PFDavg with low deman relating to ATEX	d rate according to	IEC 61508	0.008			
PFHD with high demand to ATEX	rate according to E	N 62061 relating	5E-7 1/h			
Safety Integrity Level (S to ATEX	IL) according to IEC	61508 relating	SIL1			
T1 value for proof test in IEC 61508 relating to AT		e according to	3 a			
ertificates/ approvals						
General Product Approv	/al					EMC
SP:		<u>Confirmatio</u>	n	(Ս	EHC	Ø
Eor use in bazardous lo	cations	Declaration of	Con	UL UL	ERIC	RCM
For use in hazardous lo	ccc		Con	UL UL	EFFFC Marine / Shipping	RCM
For use in hazardous lo	cations ECEx	Declaration of	Con- Té	est Certificates	Efficiency Marine / Shipping	
For use in hazardous lo	IECEx	Declaration of formity	Con- Té	<u> Type Test Certific-</u>	Efficiency Marine / Shipping	RCM
KEx ATEX	IECEx	Declaration of formity CEE EG-Konf.	Con- Te	<u> Type Test Certific-</u>	Effic Marine / Shipping Official Shipping	RCM RCM READ READ VERITAS

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=3RW5545-2HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-2HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5545-2HA04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

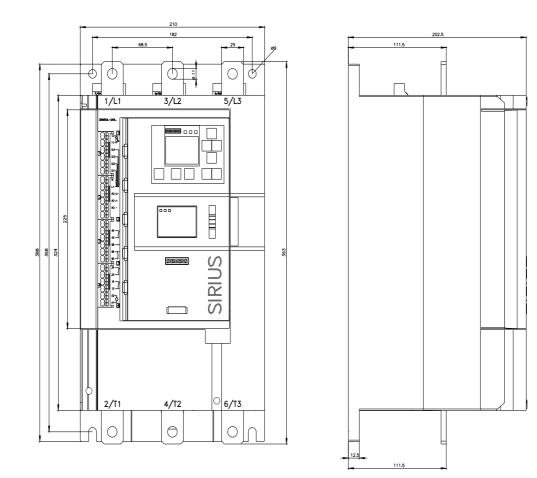
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04/char

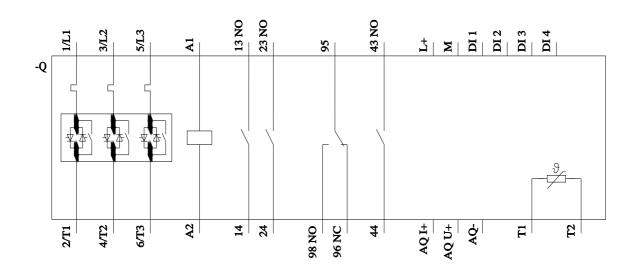
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545-2HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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





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