## SIEMENS

## Data sheet

## 3RW5527-3HA14



SIRIUS soft starter 200-480 V 93 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
of communication module PROFINET high-feature usable	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
of communication module Modbus TCP usable	<u>3RW5980-0CT00</u>
of communication module Modbus RTU usable	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3136-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3136-6; Type of coordination 1, Iq = 65 kA
• of full range R fuse link for semiconductor protection usable up to 690 V	<u>3NE1224-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3227; Type of coordination 2, Iq = 65 kA</u>

## General technical data

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

<ul> <li>is supported HMI-High Feature</li> </ul>	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.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
communication function	Yes
<ul> <li>operating measured value display</li> </ul>	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
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
voltage ramp	Yes
torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes

<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	93 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	19 A
• at 50 °C rated value	82.5 A
• at 60 °C rated value	75.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	161 A
• at 50 °C rated value	143 A
• at 60 °C rated value	131 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	-15 %
inside-delta circuit	
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	22 kW
<ul> <li>at 230 V at 40 C lated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	45 kW
at 400 V at 40 °C rated value	45 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	90 kW
	50 Hz
Operating frequency 1 rated value	60 Hz
Operating frequency 2 rated value	-10 %
relative negative tolerance of the operating frequency	10 %
relative positive tolerance of the operating frequency minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	28 W
• at 50 °C after startup	25 W
• at 60 °C after startup	23 W 23 W
power loss [W] at AC at current limitation 350 %	25 W
• at 40 °C during startup	1 258 W
at 50 °C during startup	1 250 W
at 60 °C during startup	948 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
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 50 Hz	110 250 V
relative negative tolerance of the control supply voltage at	-15 %
AC at 50 Hz	
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 frequency	-10 %
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	180 mA
inrush current by closing the bypass contacts maximum	0.8 A
inrush current peak at application of control supply voltage	43 A
maximum duration of inrush current peak at application of control supply	1.6 ms
voltage	Varistor
design of the overvoltage protection	
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
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	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	306 mm
width	185 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
weight without packaging	7.15 kg
Connections/ Terminals	7.10 kg
type of electrical connection	
for main current circuit	box terminal
for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	23 11111
with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross section = 2.5 mm<sup>2</sup> maximum</li> </ul>	150 m 250 m
with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
<ul> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>for AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)

type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf-in
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
during storage according to IEC 60721	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
- during storage according to IEC 00721	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, Class B on request
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
• EtherNet/IP	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: 3VA51, max. 125 A; lq = 10 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
	Siemens type: $3VA51$ , max. $125$ A; Iq = $10$ kA
— usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according	Siemens type: 3VA51, max. 125 A; lq = 10 kA
to UL — usable for High Faults at 575/600 V at inside-delta aircuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
circuit according to UL — usable for Standard Faults at 575/600 V at inside-	Siemens type: 3VA51, max. 125 A; lq = 10 kA
delta circuit according to UL <ul> <li>of the fuse</li> </ul>	
<ul> <li>or the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 300 A; lq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 250 A; Iq = 100 kA
UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 300 A; lq = 10 kA
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 250 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	25 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	30 hp

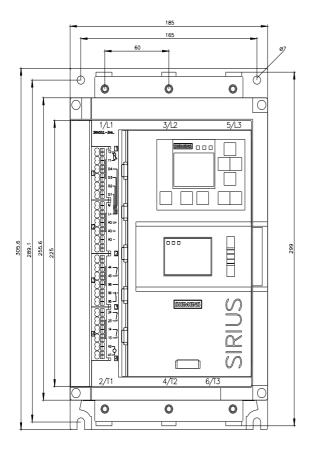
• at 460/480 V at 50 °C rated value	e	60 hp	1		
• at 200/208 V at inside-delta circu	iit at 50 °C rated value	40 hp	1		
• at 220/230 V at inside-delta circu	iit at 50 °C rated value	50 hp	1		
• at 460/480 V at inside-delta circu	iit at 50 °C rated value	100 h	p		
contact rating of auxiliary contacts a	ccording to UL	R300	-B300		
afety related data	-				
protection class IP on the front accord	rding to IEC 60529	IP00:	IP20 with cover		
touch protection on the front according to IEC 60529				t from the front with cover	
electromagnetic compatibility			o IEC 60947-4-2		
TEX					
certificate of suitability					
• ATEX		Yes			
• IECEx		Yes			
<ul> <li>according to ATEX directive 2014</li> </ul>	4/34/EU	BVS ·	18 ATEX F 003 X		
type of protection according to ATEX		II (2)0	G [Ex eb Gb] [Ex db Gb]	[Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2)
hardware fault tolerance according to	o IEC 61508 relating to	[Ex dl 0	b Mb]		
ATEX PFDavg with low demand rate accord	ding to IEC 61508	0.008	;		
relating to ATEX PFHD with high demand rate accordi	ing to EN 62061 relating	5E-7	1/h		
to ATEX Safety Integrity Level (SIL) according		SIL1			
to ATEX T1 value for proof test interval or ser	vice life according to	3 а			
IEC 61508 relating to ATEX					
ertificates/ approvals					
General Product Approval					EMC
Confirmat CSA	tion	)		EHC	
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Confirmat	tion CCC Declaration formity	of Con-	UL Test Certificates	<b>Marine / Shipping</b>	RCM
(SA)	CCC	of Con-	Test Certificates           Type Test Certific- ates/Test Report	ERE Marine / Shipping	RCM
For use in hazardous locations	CCC	E	Type Test Certific-	EFFE Marine / Shipping	
For use in hazardous locations	Ccc Declaration formity	E	Type Test Certific-	Efficiency Marine / Shipping	RCM
For use in hazardous locations	Ccc Declaration formity	F.	Type Test Certific-	EFFE Marine / Shipping	RCM
For use in hazardous locations	Ccc Declaration formity Ccc EG-Kont	F.	Type Test Certific-	Efficiency Marine / Shipping	RCM
For use in hazardous locations	Ccc Declaration formity Ccc EG-Kont	F.	Type Test Certific-	Efficiency Marine / Shipping	RCM RCM
For use in hazardous locations	Ccc Declaration formity Ccc EG-Kont	F.	Type Test Certific-	EAC Marine / Shipping	RCM
For use in hazardous locations	Ccc Declaration formity Ccc EG-Kont	F.	Type Test Certific-	EFFC Marine / Shipping	RCM
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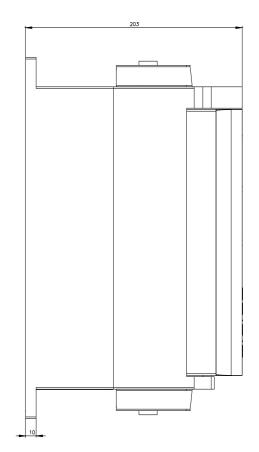
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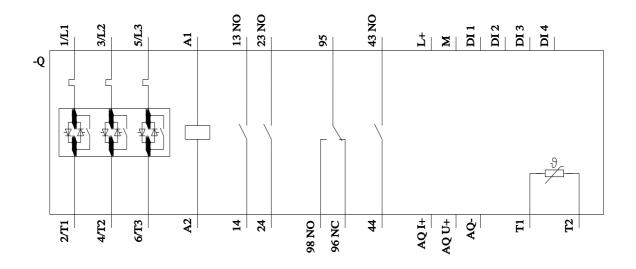
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5527-3HA14&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5527-3HA14/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5527-3HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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