## SIEMENS

## Data sheet

## 3RW5534-2HA14



SIRIUS soft starter 200-480 V 113 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>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<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 = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1225-0; 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>3NE3231: Type of coordination 2, Iq = 65 kA</u>
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 %

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

125 ... 800 %

40 ... 100 %

current limiting value [%] adjustable

breakaway voltage [%] adjustable

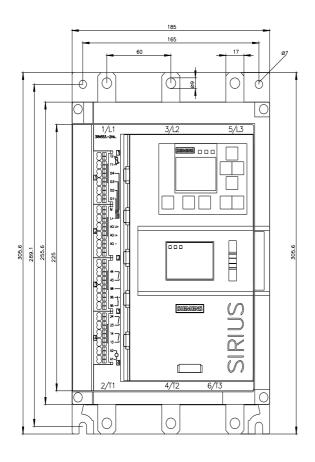
number of controlled phases	3		
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2		
current unbalance limiting value [%]	10 60 %		
ground-fault monitoring limiting value [%]	10 95 %		
buffering time in the event of power failure			
for main current circuit	100 ms		
for control circuit	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			
<ul> <li>between main and auxiliary circuit</li> </ul>	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			
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes		
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes		
<ul> <li>breakaway pulse</li> </ul>	Yes		
<ul> <li>adjustable current limitation</li> </ul>	Yes		
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes		
● pump ramp down	Yes		
DC braking	Yes		
motor heating	Yes		
<ul> <li>slave pointer function</li> </ul>	Yes		
trace function	Yes		
intrinsic device protection	Yes		
<ul> <li>motor overload protection</li> </ul>	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		
<ul> <li>inside-delta circuit</li> </ul>	Yes		
auto-RESET	Yes		
manual RESET	Yes		
remote reset	Yes		
<ul> <li>communication function</li> </ul>	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		
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		
<ul> <li>application wizards</li> </ul>	Yes		

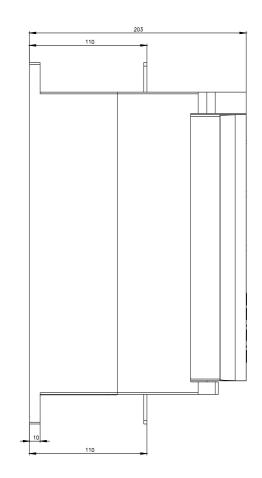
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
• at 40 °C rated value	113 A
• at 40 °C rated value minimum	23 A
• at 50 °C rated value	101 A
at 60 °C rated value	89 A
operational current at inside-delta circuit	
• 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
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	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	
• at 40 °C after startup	34 W
• at 50 °C after startup	30 W
• at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 %	
• 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
control supply voltage at AC	
• 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 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

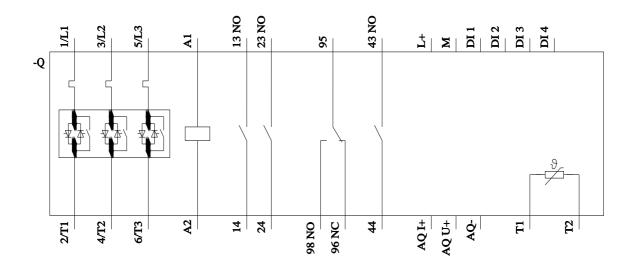
inrush current peak at application of control supply voltage maximum	
	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit
<u>.</u>	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	
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	6.85 kg
Connections/ Terminals	
type of electrical connection	
	busbar connection
type of electrical connection	
type of electrical connection • for main current circuit	busbar connection spring-loaded terminals 25 mm
type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> <li>width of connection bar maximum</li>	spring-loaded terminals
type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>	spring-loaded terminals 25 mm
type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> <li>width of connection bar maximum <ul> <li>wire length for thermistor connection</li> </ul></li>	spring-loaded 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	spring-loaded terminals 25 mm 50 m
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	spring-loaded terminals 25 mm 50 m 150 m
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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-sections         • for DIN cable lug for main contacts stranded         • for DIN cable lug for main contacts finely stranded	spring-loaded terminals 25 mm 50 m 150 m 250 m
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type of electrical connection• for main current circuit• for control circuitwidth of connection bar maximumwire 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-sections = 2.5 mm² maximum• with conductor cross-sections• for DIN cable lug for main contacts stranded• for DIN cable lug for main contacts finely strandedtype of connectable conductor cross-sections• for control circuit solid• for control circuit solid• for control circuit finely stranded with core end processing• for AWG cables for control circuit solid• for AWG cables for control circuit finely stranded with core end processingwire length• between soft starter and motor maximum• at the digital inputs at DC maximumtightening torque• for main contacts with screw-type terminals• for auxiliary and control contacts with screw-type terminals	spring-loaded terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 120 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 2x (24 16) 2x (24 16) 10 14 N·m
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type of electrical connection• for main current circuit• for control circuitwidth of connection bar maximumwire 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-sections = 2.5 mm² maximum• with conductor cross-sections• for DIN cable lug for main contacts stranded• for DIN cable lug for main contacts finely strandedtype of connectable conductor cross-sections• for control circuit solid• for control circuit solid• for control circuit finely stranded with core end processing• for AWG cables for control circuit solid• for AWG cables for control circuit finely stranded with core end processingwire length• between soft starter and motor maximum• at the digital inputs at DC maximumtightening torque• for main contacts with screw-type terminals• for auxiliary and control contacts with screw-type terminals	spring-loaded terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 120 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16) 2x (24 16) 2x (24 16) 10 14 N·m

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
<ul> <li>during storage and transport</li> </ul>	-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
<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	Yes
PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modulus RTU     Modulus 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; lq = 10 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
— usable for Standard Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
— usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA
— usable for High Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside- delta circuit according to UL</li> <li>of the fuse</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
usable for Standard Faults up to 575/600 V     according to UL	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 350 A; lq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 350 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	30 hp
• at 220/230 V at 50 °C rated value	30 hp
• at 460/480 V at 50 °C rated value	75 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	50 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	60 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	125 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
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	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]

hardware fault tolerar ATEX	nce according to IEC 61	508 relating to	0			
	and rate according to I	EC 61508	0.008			
PFHD with high dema to ATEX	and rate according to EN	62061 relating	5E-7 1/h			
Safety Integrity Level to ATEX	(SIL) according to IEC (	61508 relating	SIL1			
T1 value for proof tes IEC 61508 relating to	t interval or service life ATEX	according to	3а			
ertificates/ approvals						
General Product App	roval					EMC
(SP)	<u>Confirmation</u>			Ű.	EHC	
For use in hazardous	locations	Declaration of 0 formity	Con- T	est Certificates	Marine / Shipping	
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nttps://www.siemens.co ndustry Mall (Online	ordering system)					
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