## SIEMENS

## Data sheet

## 3RW5558-2HA14



SIRIUS soft starter 200-480 V 1280 A, 110-250 V AC Spring-type terminals

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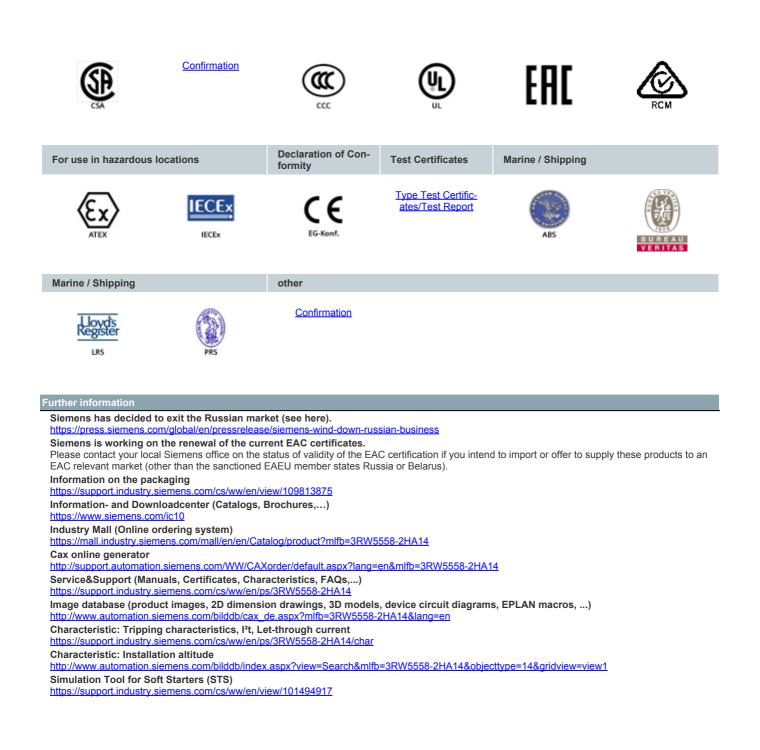
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
of high feature HMI module usable	<u>3RW5980-0HF00</u>
of communication module PROFINET standard usable	<u>3RW5980-0CS00</u>
of communication module PROFINET high-feature usable	<u>3RW5950-0CH00</u>
of communication module PROFIBUS usable	3RW5980-0CP00
of communication module Modbus TCP usable	3RW5980-0CT00
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	
of circuit breaker usable at 400 V     of circuit breaker usable at 500 V	<u><math>3VA2716-7AB05-0AA0</math>; Type of coordination 1, Iq = 65 kA, CLASS 10</u> 3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of the gG fuse usable up to 690 V	3x3NA3365-6; 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>3NB3357-1KK26: 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>	3x3NE3340-8; 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

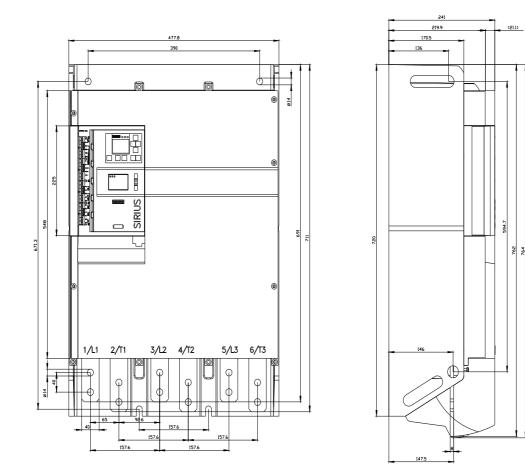
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	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 20/////2010
Substance Prohibitance (Date)	02/11/2019
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
• pump ramp down	Yes
DC braking	Yes
motor heating	Yes
slave pointer function	Yes
trace function	Yes
<ul> <li>intrinsic device protection</li> <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
<ul> <li>evaluation of thermistor motor protection</li> </ul>	ATEX, an upstream contactor is required in inside-delta circuit. 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
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
condition monitoring	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes

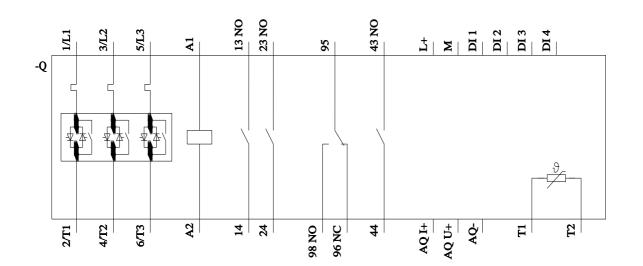
	Ver
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions Power Electronics	Yes
operational current	4 000 A
<ul> <li>at 40 °C rated value</li> <li>at 40 °C rated value minimum</li> </ul>	1 280 A
	256 A
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	1 139 A 1 030 A
	1 030 A
<ul> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> </ul>	2 217 A
at 50 °C rated value	1 973 A
at 50 °C rated value	1 973 A 1 784 A
operating voltage	1704 A
rated value	200 480 V
at inside-delta circuit rated value	200 400 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	400 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	710 kW
• at 400 V at 40 °C rated value	710 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	1 200 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	384 W
• at 50 °C after startup	337 W
• at 60 °C after startup	275 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	23 279 W
• at 50 °C during startup	19 496 W
at 60 °C during startup	16 778 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	40
type of voltage of the control supply voltage	AC
control supply voltage at AC	110 250.1/
• at 50 Hz • at 60 Hz	110 250 V 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	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	
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	1A
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	
<ul> <li>forwards</li> </ul>	10 mm
<ul> <li>backwards</li> </ul>	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	61 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	busbar connection
for control circuit	spring-loaded terminals
	55 mm
width of connection bar maximum	55 mm
wire length for thermistor connection	
<ul> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	50 m 150 m
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<ul> <li>wire length for thermistor connection <ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul> </li> <li>type of connectable conductor cross-sections <ul> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> </ul> </li> <li>type of connectable conductor cross-sections <ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul> </li> <li>wire length <ul> <li>between soft starter and motor maximum</li> <li>at the digital inputs at DC maximum</li> </ul> </li> </ul>	50 m 150 m 250 m 2x (50 240 mm <sup>2</sup> ) 2x (70 240 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) 800 m
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Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
<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
Modbus TCP	
	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse         — usable for Standard Faults up to 575/600 V         according to U	Type: Class J / L, max. 3000 A; Iq = 85 kA
according to UL — usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 3000 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 J / L, max. 3000 A; Iq = 85 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. 3000 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	400 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	450 hp
• at 460/480 V at 50 °C rated value	1 000 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	700 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	850 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	1 700 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
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
ertificate of suitability • ATEX	Vec
IECEX	Yes
	Yes
according to ATEX directive 2014/34/EU	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 tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating	5E-7 1/h 
to ATEX	
T1 value for proof test interval or service life according to	38
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 а
	3 a







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