SIEMENS

Data sheet 3RW5524-1HA14



SIRIUS soft starter 200-480 V 47 A, 110-250 V AC Screw 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 	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 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA		
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA		
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1021-2; Type of coordination 2, Iq = 65 kA		
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8024-1; Type of coordination 2, Iq = 65 kA		

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
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 acc. to IEC 61557-12	5 %			
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 %			
recovery time after overload trip adjustable	60 1 800 s			
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 safe isolation				
between main and auxiliary circuit	480 V; does not apply for thermistor connection			
utilization category acc. to IEC 60947-4-2	AC 53a			
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			
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reference code acc. to IEC 81346-2	Q			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)				
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye			

e anring type terminal	No			
spring-type terminal BROElegardy				
 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	47 A			
 at 40 °C rated value minimum 	10 A			
 at 50 °C rated value 	41.6 A			
at 60 °C rated value	36.2 A			
operational current at inside-delta circuit				
 at 40 °C rated value 	81.4 A			
 at 50 °C rated value 	72 A			
 at 60 °C rated value 	62.7 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	11 kW			
at 230 V at inside-delta circuit at 40 °C rated value	22 kW			
at 400 V at 40 °C rated value	22 kW			
at 400 V at inside-delta circuit at 40 °C rated value	45 kW			
Operating frequency 1 rated value	50 Hz			
Operating frequency 1 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	14 W			
• at 50 °C after startup	12 W			
• at 60 °C after startup	11 W			
power loss [W] at AC at current limitation 350 %				
• at 40 °C during startup	588 W			
at 50 °C during startup				
at 60 °C during startup	504 W			
	420 W			
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor			
Control circuit/ Control	100			
type of voltage of the control supply voltage	AC			
control supply voltage at AC	440 250 //			
● at 50 Hz	110 250 V			

- ct 60 I I=	440 050 \/				
• 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				
locked-rotor current at close of bypass contact	0.8 A				
maximum					
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 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 inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick				
· .					
 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	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	5.5 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	box terminal				
for control circuit	screw-type terminals				
width of connection bar maximum	25 mm				
wire length for thermistor connection					
with conductor cross-section = 0.5 mm² maximum	50 m				
with conductor cross-section = 1.5 mm² maximum	150 m				
	250 m				
 with conductor cross-section = 2.5 mm² maximum 	250 m				

type of connectable conductor cross-sections					
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)				
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)				
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)				
 at AWG cables for main contacts for box terminal using the front clamping point 	1x (10 2/0)				
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)				
 at AWG cables for main contacts for box terminal using the back clamping point 	1x (10 2/0)				
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)				
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)				
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)				
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)				
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)				
type of connectable conductor cross-sections					
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)				
wire length					
 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 	4.5 6 N·m				
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m				
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	40 53 lbf·in				
 for auxiliary and control contacts with screw-type terminals 	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 acc. 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 acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4				
during transport acc. to IEC 60721	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				
PROFINET high-feature	Yes				
EtherNet/IP	Yes				
Modbus RTU	Yes				
Modbus TCP	Yes				
PROFIBUS	Yes				
- 1 1101 1500					

UL/CSA ratings						
manufacturer's article number						
of circuit breaker						
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA					
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA					
 usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 90 A; lq = 5 kA					
 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA					
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA					
 usable for High Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA					
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 90 A; Iq = 5 kA					
of the fuse						
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 175 A; Iq = 5 kA					
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 175 A; Iq = 100 kA					
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 175 A; Iq = 5 kA					
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 175 A; Iq = 100 kA					
operating power [hp] for 3-phase motors						
 at 200/208 V at 50 °C rated value 	10 hp					
 at 220/230 V at 50 °C rated value 	10 hp					
 at 460/480 V at 50 °C rated value 	30 hp					
 at 200/208 V at inside-delta circuit at 50 °C rated value 	20 hp					
 at 220/230 V at inside-delta circuit at 50 °C rated value 	25 hp					
at 460/480 V at inside-delta circuit at 50 °C rated value	50 hp					
contact rating of auxiliary contacts according to UL	R300-B300					
Safety related data						
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover					
touch protection on the front acc. 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	Yes				
 according to ATEX directive 2014/34/EU 	BVS 18 ATEX F 003 X	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 acc. to IEC 61508 relating to ATEX	0					
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008					
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h					
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1					
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y					
Certificates/ approvals						
General Product Approval		EMC	For use in hazard- ous locations			













For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

Further information

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=3RW5524-1HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5524-1HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5524-1HA14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5524-1HA14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

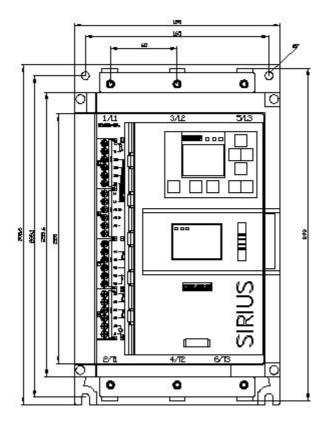
https://support.industry.siemens.com/cs/ww/en/ps/3RW5524-1HA14/char

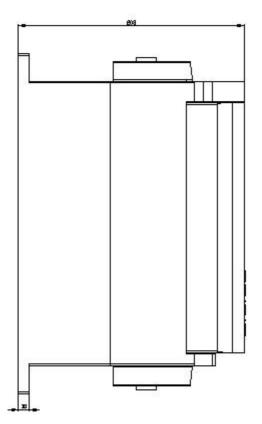
Characteristic: Installation altitude

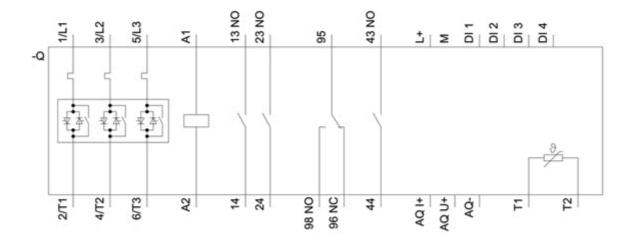
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5524-1HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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