SIEMENS

Data sheet

3RW5526-1HA14



SIRIUS soft starter 200-480 V 77 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 	<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 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
 of circuit breaker usable at 500 V 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10	
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
 of the gG fuse usable up to 690 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA	
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3132-6; 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>	
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3227; 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	

0 0 1 1	
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
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
	60 1 800 s
recovery time after overload trip adjustable	AC 53a
utilization category according to IEC 60947-4-2	
reference code according to IEC 81346-2	Q 20/15/2010
Substance Prohibitance (Date)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3
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
min/max pointer	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
-	Yes
via software configurable	
screw terminal	Yes
spring-loaded terminal	No
PROFlenergy firmware update	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes
removable terminal for control circuit	Yes
	Yes
voltage ramp	100

inclustorialYesinconclustorialYesinclustoria			
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AC at 60 Hz 10 %		10 %	
		-15 %	
		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	
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	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	
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	
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 mm ² maximum	50 m
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	150 m 250 m
type of connectable conductor cross-sections for main contacts for box terminal	250 11
using the front clamping point solid	1x (2.5 16 mm²)
using the front clamping point finely stranded with core end processing	1x (2.5 50 mm ²)
using the front clamping point stranded	1x (10 70 mm²)
using the back clamping point solid	1x (2.5 16 mm ²)
 r box terminal using the back clamping point 	1x (10 2/0)
using both clamping points solid	2x (2.5 16 mm ²)
 using both clamping points finely stranded with core end processing using both clamping points stranded 	2x (2.5 35 mm²) 2x (6 16 mm²), 2x (10 50 mm²)
 using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)

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)		
 for 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 	0.8 1.2 N·m		
terminals			
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		
	s oo m, beraing as or root m, see calalog		
 ambient temperature during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during operation e during storage and transport	-25 +80 °C		
environmental category			
	2K6 (no ico formation, only operational condensation), 2C2 (no colt mist), 2S2		
 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)		
Environmental footprint			
Siemens Eco Profile (SEP)	Siemens EcoTech		
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		
UL/CSA ratings			
manufacturer's article number			
 of circuit breaker usable for Standard Faults 			
— at 460/480 V according to UL	Siemens type: 3VA51, max. 125 A; lq = 10 kA		
— 60/480 V according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA		
— at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq = 10 kA		
- 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA		
— at 575/600 V according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA		
— 75/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA		
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA		
• of the fuse			
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 250 A; lq = 10 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 250 A; lq = 100 kA		
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 250 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; lq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	20 hp		
• at 220/230 V at 50 °C rated value	25 hp		
• at 460/480 V at 50 °C rated value	50 hp		
• at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp		
 at 220/230 V at inside-delta circuit at 50 °C rated value 	40 hp		

• at 460/480 V at inside-delta circuit at	50 °C rated value	75 hp		
contact rating of auxiliary contacts acco	rding to UL	R300-B300		
Electrical Safety				
protection class IP on the front accordin	g to IEC 60529	IP00; IP20 with cover		
touch protection on the front according	to IEC 60529	finger-safe, for vertical contac	t from the front with cover	
ATEX				
Safety Integrity Level (SIL) according to to ATEX	EC 61508 relating	SIL1		
PFHD with high demand rate according t relating to ATEX	o IEC 61508	5E-7 1/h		
PFDavg with low demand rate according relating to ATEX	to IEC 61508	0.008		
hardware fault tolerance according to IE ATEX	C 61508 relating to	0		
T1 value for proof test interval or service IEC 61508 relating to ATEX	life according to	3 a		
certificate of suitability				
• ATEX		Yes		
• IECEx		Yes		
 according to ATEX directive 2014/34. 	/EU	BVS 18 ATEX F 003 X		
type of protection according to ATEX dir	ective 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]		
Approvals Certificates				
General Product Approval				
UK CA EG-Konf.		Confirmation	(UL)	EHC
EMV	For use in haza	rdous locations	Test Certificates	Marine / Shipping
KC RCM	K ATEX	IECE×	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping		other	Environment	

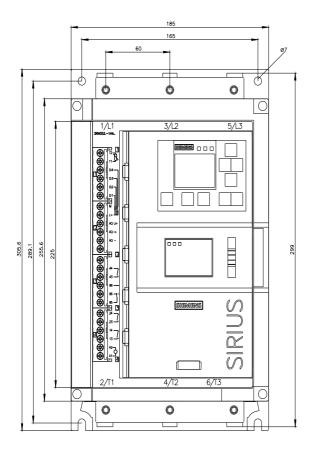


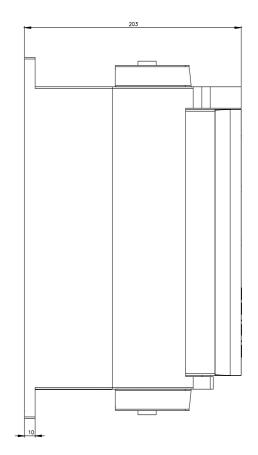
Environmental Confirmations

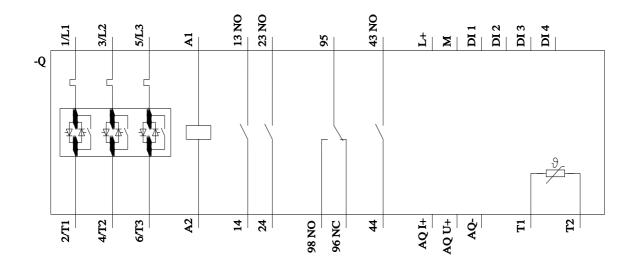
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5526-1HA14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5526-1HA14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-1HA14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5526-1HA14&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-1HA14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5526-1HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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