SIEMENS

Data sheet

3RW5226-3AC15



SIRIUS soft starter 200-600 V 77 A, 110-250 V AC spring-type terminals Analog output

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW52			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS00</u>			
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</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 = 20 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	<u>3NA3132-6; Type of coordination 1, Iq = 65 kA</u>			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3132-6; Type of coordination 1, Iq = 65 kA</u>			
 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>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 20 s			
current limiting value [%] adjustable	130 700 %			
certificate of suitability				
CE marking	Yes			
UL approval	Yes			
CSA approval	Yes			
product component				

trip class

HMI-High Featureis supported HMI-Standard

number of controlled phases

for main current circuitfor control circuit

• is supported HMI-High Feature

buffering time in the event of power failure

product feature integrated bypass contact system

100 ms

100 ms

No

Yes

Yes

Yes

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

3

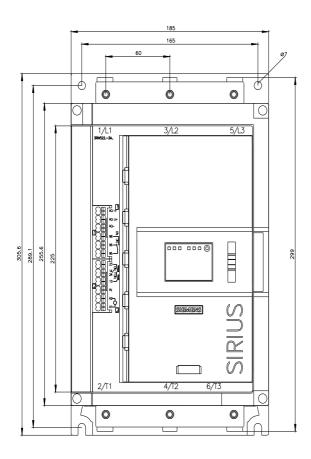
inculation voltage rated volue	600.1/				
insulation voltage rated value	600 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 800 V				
service factor	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for protective separation					
between main and auxiliary circuit	600 V				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz				
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				
Soft Torque	Yes				
 adjustable current limitation 	Yes				
 pump ramp down 	Yes				
 intrinsic device protection 	Yes				
 motor overload protection 	Yes; Electronic motor overload protection				
 evaluation of thermistor motor protection 	No				
inside-delta circuit	Yes				
auto-RESET	Yes				
manual RESET	Yes				
remote reset	Yes; By turning off the control supply voltage				
 communication function 	Yes				
 operating measured value display 	Yes; Only in conjunction with special accessories				
 error logbook 	Yes; Only in conjunction with special accessories				
 via software parameterizable 	No				
 via software configurable 	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard communication module				
firmware update	Yes				
 removable terminal for control circuit 	Yes				
torque control	No				
 analog output 	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
Power Electronics					
operational current					
• at 40 °C rated value	77 A				
• at 50 °C rated value	68 A				
• at 60 °C rated value	62 A				
operational current at inside-delta circuit					
• at 40 °C rated value	133 A				
• at 50 °C rated value	118 A				
• at 60 °C rated value	107 A				
operating voltage					
rated value	200 600 V				
 at inside-delta circuit rated value 	200 600 V				
	200 600 V				
relative negative tolerance of the operating voltage	200 600 V -15 %				
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage					
	-15 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	-15 % 10 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at	-15 % 10 % -15 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	-15 % 10 % -15 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors	-15 % 10 % -15 % 10 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value	-15 % 10 % -15 % 10 % 22 kW				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	-15 % 10 % -15 % 10 % 22 kW 37 kW				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value	-15 % 10 % -15 % 10 % 22 kW 37 kW 37 kW				

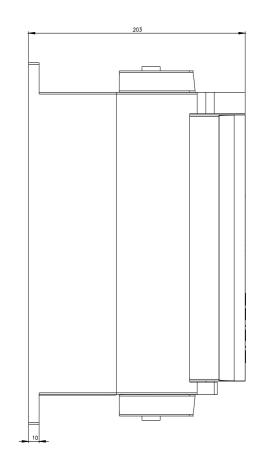
Operating frequency 1 rated value	50 Hz			
Operating frequency 2 rated value	60 Hz			
relative negative tolerance of the operating frequency	-10 %			
relative positive tolerance of the operating frequency	10 %			
adjustable motor current				
at rotary coding switch on switch position 1	32 A			
 at rotary coding switch on switch position 2 	35 A			
 at rotary coding switch on switch position 3 	38 A			
 at rotary coding switch on switch position 4 	41 A			
 at rotary coding switch on switch position 5 	44 A			
 at rotary coding switch on switch position 6 	47 A			
 at rotary coding switch on switch position 7 	50 A			
at rotary coding switch on switch position 8	53 A			
 at rotary coding switch on switch position 9 	56 A			
 at rotary coding switch on switch position 10 	59 A			
 at rotary coding switch on switch position 11 	62 A			
 at rotary coding switch on switch position 12 	65 A			
 at rotary coding switch on switch position 13 	68 A			
• at rotary coding switch on switch position 14	71 A			
at rotary coding switch on switch position 15	74 A			
• at rotary coding switch on switch position 16	77 A			
• minimum	32 A			
adjustable motor current				
 for inside-delta circuit at rotary coding switch on switch position 1 	55.4 A			
 for inside-delta circuit at rotary coding switch on switch position 2 	60.6 A			
 for inside-delta circuit at rotary coding switch on switch position 3 	65.8 A			
 for inside-delta circuit at rotary coding switch on switch position 4 	71 A			
 for inside-delta circuit at rotary coding switch on switch position 5 	76.2 A			
 for inside-delta circuit at rotary coding switch on switch position 6 	81.4 A			
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on switch 	86.6 A 91.8 A			
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch 	97 A			
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	102 A			
 for inside delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	107 A			
 position 11 for inside-delta circuit at rotary coding switch on switch 	113 A			
position 12for inside-delta circuit at rotary coding switch on switch	118 A			
position 13for inside-delta circuit at rotary coding switch on switch	123 A			
 position 14 for inside-delta circuit at rotary coding switch on switch 	128 A			
 position 15 for inside-delta circuit at rotary coding switch on switch position 16 	133 A			
at inside-delta circuit minimum	55.4 A			
minimum load [%]	15 %; Relative to smallest settable le			
power loss [W] for rated value of the current at AC				
• at 40 °C after startup	35 W			
• at 50 °C after startup	32 W			
• at 60 °C after startup	31 W			
power loss [W] at AC at current limitation 350 %				
• at 40 °C during startup	1 107 W			
• at 50 °C during startup	933 W			
• at 60 °C during startup	826 W			

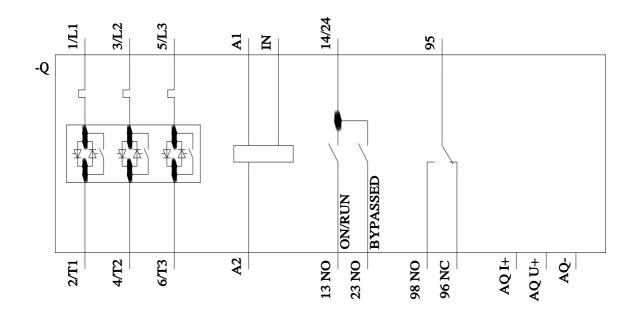
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage 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	30 mA			
holding current in bypass operation rated value	75 mA			
inrush current by closing the bypass contacts maximum	2.5 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 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	1			
number of digital outputs	3			
 not parameterizable 	2			
digital output version	2 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
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	5.6 kg			
Connections/ Terminals				
type of electrical connection	hav terminal			
for main current circuit	box terminal			
for control circuit	spring-loaded terminals			
width of connection bar maximum	25 mm			
 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)			

elemning point colid			
clamping point solid	4(40		
 for 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	2x (0.25 1.5 mm²)		
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm ²)		
for AWG cables for control circuit solid	2x (24 16)		
 for AWG cables for control circuit finely stranded with 	2x (24 16)		
core end processing			
wire length			
 between soft starter and motor maximum 	800 m		
at the digital inputs at AC maximum	100 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 	7 10.3 lbf·in		
terminals			
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 (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)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol	acc. to 120 00047 4-2. Old35 A		
communication module is supported			
PROFINET standard	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modulus RTU Modulus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
 or circuit breaker usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA		
usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, may 125 A: Is may = 65 kA		
— usable for Standard Faults at 460/480 V at inside- delta circuit 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 to UL	Siemens type: 3VA51, max. 125 A; lq = 10 kA		
 usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq = 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 ad	ccording to	Type: Class J / L, max. 250	A; lq = 100 kA		
UL — usable for Standard Faults at inside-delta to 575/600 V according to UL	i circuit up	Type: Class RK5 / K5, max. 250 A; Iq = 10 kA			
	uit up to	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					
• at 575/600 V at 50 °C rated value		50 hp			
		60 hp			
• at 200/208 V at inside-delta circuit at 50 °C rate		30 hp			
 at 220/230 V at inside-delta circuit at 50 °C rate 		40 hp			
 at 460/480 V at inside-delta circuit at 50 °C rate 		75 hp			
at 575/600 V at inside-delta circuit at 50 °C rate		100 hp			
contact rating of auxiliary contacts according to l Safety related data	JL	R300-B300	_		
protection class IP on the front according to IEC	60529	IP00; IP20 with cover			
touch protection on the front according to IEC 60		finger-safe, for vertical conta	ict from the front with cove	r	
electromagnetic compatibility		in accordance with IEC 6094			
Certificates/ approvals	- 10 C				
				ENC	
General Product Approval				EMC	
<u>Confirmation</u>				A	
(SP	(CC)	(ŲL)	FHI		
		<u> </u>	LIIL		
C34	ccc	00		n G M	
Declaration of Conformity	est Certificates	Marina / Chinning			
Declaration of Conformity T	est Certificates	Marine / Shipping			
	<u>Type Test Certifi</u> ates/Test Repo		BUREAU VERITAS	Lloyd's Register uis	
Marine / Shipping other					
Confirmation PRS					
Further information					
Siemens has decided to exit the Russian market (
https://press.siemens.com/global/en/pressrelease/sie Siemens is working on the renewal of the current					
Please contact your local Siemens office on the statu EAC relevant market (other than the sanctioned EAE	s of validity of th	e EAC certification if you inte	end to import or offer to su	oply these products to an	
Information on the packaging		,			
https://support.industry.siemens.com/cs/ww/en/view/					
Information- and Downloadcenter (Catalogs, Brochttps://www.siemens.com/ic10	chures,)				
Industry Mall (Online ordering system)					
https://mall.industry.siemens.com/mall/en/en/Catalog	/product?mlfb=3	RW5226-3AC15			
Cax online generator					
http://support.automation.siemens.com/WW/CAXorde Service&Support (Manuals, Certificates, Characte	ristics, FAQs,		<u>U15</u>		
https://support.industry.siemens.com/cs/ww/en/ps/3R Image database (product images, 2D dimension of http://www.automation.siemens.com/bilddb/cax_de.a	Irawings, 3D m		ms, EPLAN macros,)		
http://www.automation.siemens.com/bilddb/cax_de.a Characteristic: Tripping characteristics, I ² t, Let-th https://support.industry.siemens.com/cs/ww/en/ps/3R	rough current				
Characteristic: Installation altitude	10/10/20-0AU 10/	<u>///d1</u>			
http://www.automation.siemens.com/bilddb/index.asp Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/		&mlfb=3RW5226-3AC15&ob	jecttype=14&gridview=viev	<u>v1</u>	
https://support.industry.siemens.com/cs/ww/en/view/	<u>101707011</u>				







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