SIEMENS

Data sheet 3RW5226-3AC05



SIRIUS soft starter 200-600 V 77 A, 24 V AC/DC spring-type terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3NA3132-6; Type of coordination 1, Iq = 65 kA

3NA3132-6; Type of coordination 1, Iq = 65 kA

3NE1224-0; Type of coordination 2, Iq = 65 kA

3NE8024-1; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

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

- for main accords already	400
for main current circuit	100 ms
• for control circuit	100 ms
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 safe isolation	
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
- analog output	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
	10071
at 50 °C rated value	118 A
at 50 °C rated valueat 60 °C rated value	
	118 A
• at 60 °C rated value	118 A
at 60 °C rated valueoperating voltage	118 A 107 A
at 60 °C rated valueoperating voltagerated value	118 A 107 A 200 600 V
 at 60 °C rated value operating voltage rated value at inside-delta circuit rated value 	118 A 107 A 200 600 V 200 600 V
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 at 500 V at inside-delta circuit at 40 °C rated value 	90 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	00.4
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 at rotary coding switch on switch position 4.	38 A 41 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	44 A
at rotary coding switch on switch position 6 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 	86.6 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on 	91.8 A 97 A
switch position 9 • for inside-delta circuit at rotary coding switch on	102 A
switch position 10 • for inside-delta circuit at rotary coding switch on	107 A
switch position 11 • for inside-delta circuit at rotary coding switch on	113 A
switch position 12 • for inside-delta circuit at rotary coding switch on	118 A
switch position 13for inside-delta circuit at rotary coding switch on	123 A
switch position 14 for inside-delta circuit at rotary coding switch on	128 A
 switch 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 %	1 107 W
 at 40 °C during startup at 50 °C during startup 	1 107 W 933 W
at 60 °C during startup at 60 °C during startup	826 W
■ at 00 G during Startup	OZO VV

Control circuit/ Control

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type of electrical connection • for main current circuit • for control circuit • for connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²)		
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 for control circuit width of connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²) 	•	box terminal
width of connection bar maximum type of connectable conductor cross-sections of for main contacts for box terminal using the front clamping point solid of for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²)		
 for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²) 	width of connection bar maximum	
clamping point solid ● for main contacts for box terminal using the front	type of connectable conductor cross-sections	
• for main contacts for box terminal using the front 1x (2.5 50 mm²)	2.	
		1x (2.5 16 mm²)

processing	1v /10 70 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 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for control circuit solid 	2x (24 16)
 at AWG cables for control circuit finely stranded with 	2x (24 16)
core end processing	
wire length	900 m
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	45.00
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 according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
during storage according to IEC 60721	mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get incide the devices), 4M4
during transport according to IEC 60724	not get inside the devices), 1M4
 during transport according to IEC 60721 EMC emitted interference 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
Communication/ Protocol	400. to 120 00071 7.2. Olugo A
communication module is supported	Ven
PROFINET standard FtherNet/IP	Yes
EtherNet/IP Medbus BTU	Yes
Modbus RTU Modbus TCP	Yes
Modbus TCP DROFIBLES	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
— usable for Standard Faults at 460/480 V	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
according to UL	0:
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL $\,$

— usable for High Faults at 460/480 V at inside-delta circuit according to UL $\,$

— usable for Standard Faults at 575/600 V according to UL

— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL $\,$

• of the fuse

— usable for Standard Faults up to 575/600 V according to UL $\,$

— usable for High Faults up to 575/600 V according to UL

— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL

— usable for High Faults at inside-delta circuit up to 575/600 V according to UL

operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value

• at 220/230 V at 50 °C rated value

• at 460/480 V at 50 °C rated value

• at 575/600 V at 50 °C rated value

 at 200/208 V at inside-delta circuit at 50 °C rated value

 \bullet at 220/230 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

• at 460/480 V at inside-delta circuit at 50 °C rated value

 at 575/600 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Type: Class RK5 / K5, max. 250 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

Type: Class RK5 / K5, max. 250 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

20 hp

25 hp

50 hp

60 hp

30 hp

40 hp

75 hp

100 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC



Confirmation









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=3RW5226-3AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-3AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW5226-3AC05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

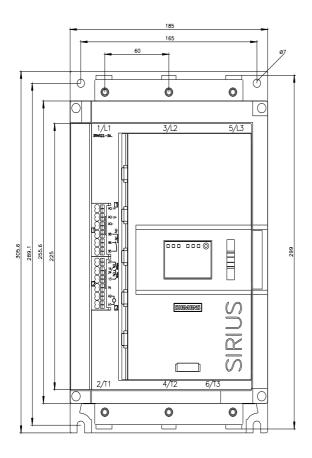
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3AC05/char

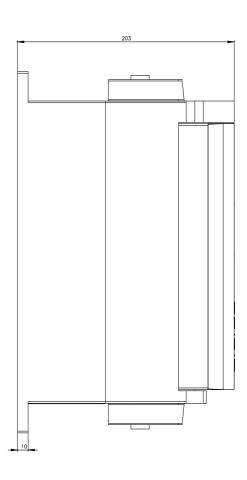
Characteristic: Installation altitude

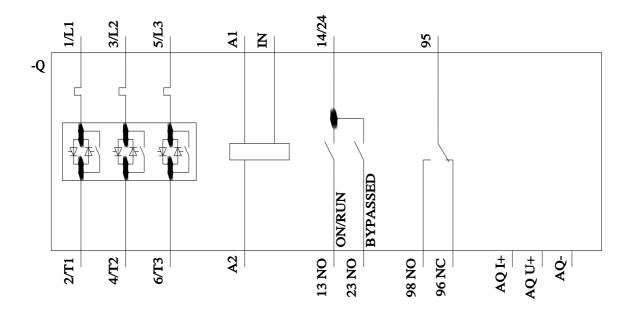
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-3AC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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