## **SIEMENS**

product brand name

Data sheet 3RW5226-3TC14

SIRIUS



SIRIUS soft starter 200-480 V 77 A, 110-250 V AC spring-type terminals Thermistor input

product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3132-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3132-6; 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>	3NE1224-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE8024-1; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes

product feature integrated bypass contact system

Yes

number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	CLASS TOA (default) / TOE / 20L, acc. to ILC 00947-4-2
• for main current circuit	100 ms
for control circuit	100 ms
	600 V
insulation voltage rated value	3, acc. to IEC 60947-4-2
degree of pollution	5, acc. to fee 60947-4-2 6 kV
impulse voltage rated value	
blocking voltage of the thyristor maximum service factor	_ 1 400 V 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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	10.02.2010 00.00.00
• ramp-up (soft starting)	Yes
	Yes
<ul><li>ramp-down (soft stop)</li><li>Soft Torque</li></ul>	Yes
adjustable current limitation	Yes
pump ramp down	Yes
	Yes
intrinsic device protection     meter everland protection	
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
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	No
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	200 480 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	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	22 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	75 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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	32 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	35 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	38 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	41 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	44 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	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	SZ / C
for inside-delta circuit at rotary coding switch on switch position 1	55.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	60.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	65.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	71 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	76.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	81.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	86.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	91.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	97 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	102 A
for inside-delta circuit at rotary coding switch on switch position 11	107 A
for inside-delta circuit at rotary coding switch on switch position 12	113 A
for inside-delta circuit at rotary coding switch on switch position 13	118 A
for inside-delta circuit at rotary coding switch on switch position 14	123 A
for inside-delta circuit at rotary coding switch on switch position 15	128 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	133 A

	55.4.4
at inside-delta circuit minimum  minimum load 59/1	55.4 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	25 14/
• 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	1 107 W
• at 50 °C during startup	933 W
at 60 °C during startup	826 W
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 250 //
at 50 Hz     at 60 Hz	110 250 V 110 250 V
0.0000	
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
locked-rotor current at close of bypass contact 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 inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
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
<ul> <li>backwards</li> </ul>	0 mm
• upwards	100 mm

<ul><li>downwards</li></ul>	75 mm
at the side	5 mm
weight without packaging	5.6 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	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      ot AWC cables for main contacts for box terminal.	1x (2.5 16 mm²)
at AWG cables for main contacts for box terminal using the back clamping point     for main contacts for box terminal using both	1x (10 2/0)
for main contacts for box terminal using both clamping points solid     for main contacts for box terminal using both	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	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	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
tightening torque	45 011
for main contacts with screw-type terminals	4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	40 53 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	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	
<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 acc. to IEC 60721     during storage acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60747-4-2. Class A      during transport acc. to IEC 60947-4-2. Class A	
of quring 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  Communication Module is supported  • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus RTU Yes • PROFIBUS Yes  UL/CSA ratings  manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 4575/600 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circ	sand must
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EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS    Modbus TCP     PROFIBUS   Yes     Yes     Yes   PROFIBUS   Yes   Yos	
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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  — usable for High 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Righ Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Righ Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Righ Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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  — usable for High Faults at inside-delta circuit 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  — usable for High 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  — usable for High 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  — usable for High Faults at inside-delta circuit up to 575/60	
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<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— operating power [hp] for 3-phase motors</li> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>30 hp</li> </ul>	
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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 200/208 V at inside-delta circuit at 50 °C rated • at 200/208 V at inside-delta circuit at 50 °C rated • at 200/208 V at inside-delta circuit at 50 °C rated  30 hp	
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 200/208 V at inside-delta circuit at 50 °C rated  30 hp	
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>30 hp</li> </ul>	
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• at 200/208 V at inside-delta circuit at 50 °C rated 30 hp	
· ·	
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	
• at 460/480 V at inside-delta circuit at 50 °C rated value 75 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 in accordance with IEC 60947-4-2	
Certificates/ approvals	
General Product Approval  EMC  Declara Confort	













**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











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=3RW5226-3TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-3TC14

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5226-3TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

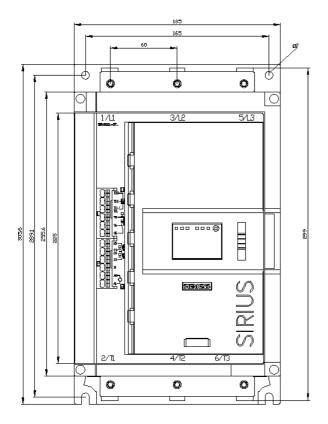
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC14/char

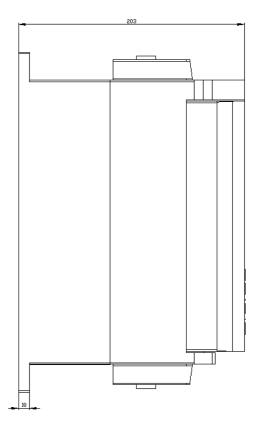
Characteristic: Installation altitude

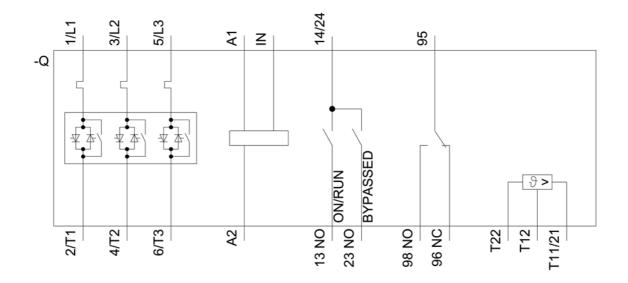
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-3TC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 12/15/2020 🖸