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	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 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 	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 	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 	3NE1224-0; 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 [%]	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	
HMI-High Feature	No
• is supported HMI-Standard	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
buffering time in the event of power failure	

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	1 400 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
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
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 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dodecamethylcyclohexasiloxane (D6) - 540-97-6
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; Full motor protection (thermistor motor protection and electronic motor overload protection)
 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; 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 via software configurable 	No Yes
via software configurable PROFlenergy	Yes; in connection with the PROFINET Standard communication module
FROFiellergy 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 inside-delta circuit	-15 %

relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	22 144
at 230 V at 40 °C rated value at 230 V at incide dalta sirevit at 40 °C rated value	22 kW
at 230 V at inside-delta circuit at 40 °C rated value t 400 V at 40 °C rated value	37 kW
• at 400 V at 40 °C rated value	37 kW
at 400 V at inside-delta circuit at 40 °C rated value	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	
 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 	86.6 A
 for inside-delta circuit at rotary coding switch on switch position 8 	91.8 A
for inside-delta circuit at rotary coding switch on switch position 9	97 A
for inside-delta circuit at rotary coding switch on switch position 10	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 for inside delta circuit at rotary coding switch on switch	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
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 * at 50 °C after startup * at 60 °C after glartup * at 50 °C during startup * at 50 °C during sta		
power loss IVM at AC at current limitation 350 % • at 40 °C during startup • at 80 °C during startup 333 V 828 W Control supply coltage at AC • at 50 Hz • at 60 Hz •	at 50 °C after startup	32 W
* 40 °C during startup * 20 °C during startup * 28 °C during startup * 29 °C during startup * 20 °C during startup	at 60 °C after startup	31 W
* at 0 °C during startup * at 60 °C during startup *	power loss [W] at AC at current limitation 350 %	
# at 0 °C during stamp Control circuit Control Type of voltage of the control supply voltage # a fot 0 °C to 10 °C to	 at 40 °C during startup 	1 107 W
Control supply voltage at AC	 at 50 °C during startup 	933 W
type of voltage of the control supply voltage ** at 60 Hz ** at 60 Hz	 at 60 °C during startup 	826 W
control supply voltage at AC a 15 0 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz control supply voltage frequency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency relative positive tolerance of the control supply voltage requency repative positive to	Control circuit/ Control	
+ at 60 Hz	type of voltage of the control supply voltage	AC
* at 60 Hz Active negative tolerance of the control supply voltage at Active negative tolerance of the control supply voltage at Active specifies tolerance of the control supply voltage at AC at 60 Hz Active negative tolerance of the control supply voltage at AC at 60 Hz Active negative tolerance of the control supply voltage at AC at 60 Hz Active negative tolerance of the control supply voltage at AC at 60 Hz Active negative tolerance of the control supply voltage at AC at 60 Hz Active negative tolerance of the control supply voltage relative negative tolerance of control supply voltage relative negative tolerance of control supply voltage relative negative negativ	control supply voltage at AC	
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AC at 50 HZ relative positive tolerance of the control supply voltage at AC at 50 HZ relative negative tolerance of the control supply voltage at AC at 50 HZ relative negative tolerance of the control supply voltage at AC at 50 HZ relative positive tolerance of the control supply voltage at AC at 50 HZ relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value holding current in bypass operation rated value holding current in bypass operation rated value ### AC at 50 HZ **Control supply current by bypass contacts maximum mash current by closing the Bypass contacts maximum ### AC at 50 HZ	• at 60 Hz	110 250 V
AC at 56 Hz relative negative tolerance of the control supply voltage at AC at 56 Hz relative positive tolerance of the control supply voltage at AC at 58 Hz control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative positive tolerance of the control supply voltage frequency rolative positive tolerance of the control supply voltage frequency number of peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts/ Outputs number of digital inputs number of digital inputs number of digital outputs • not parameterizable digital output version at AC at 56 ±250 V rated value fastening method screen faing soft manifered appains with side-by-side mounting volutions mounting position with versical mounting surface +/-90° rolatable, with versical mounting surface v-22.5* tiltable to the front and back screen faing volutions normal the side volutions for main current circuit volutions for main current circuit volutions volutio		-15 %
AC at 80 HZ relative positive bolarance of the control supply voltage at AC at 80 HZ control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency rolative negative tolerance of the control supply voltage frequency 10 % control supply current in standby mode rated value 20 may be supply current in standby mode rated value 30 mA bolding current to bypass operation rated value 30 mA control supply current in bypass operation rated value 30 mA control supply current in standby mode rated value 30 mA control supply current in standby mode rated value 30 mA 40 may be supply current in standby mode rated value 30 mA 40 may be supply current in standby mode rated value 30 mA 40 may be supply current in standby mode rated value 30 mA 40 may be supply current in standby mode rated value 31 minush current peak at application of control supply voltage design of the overvoltage protection 41 day Gives (tour=1 kA), 6 a quick-acting fisse (tour=1 kA), C1 ministure circuit breaker (tour=800 A), D6 ministure circuit breaker (tour=300 A); is not part of scope of supply 1 inputs/ Outputs 1 mumber of digital inputs 1 mumber of digital outputs 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 mumber of analog outputs 3 a 1 on parameterizable 2 control supply outputs 3 A 3 A 3 A 3 A 3 A 4 a DC-13 at 24 V rated value 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A		10 %
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required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • at the side • for main current circuit • for control circuit • for connection bar maximum 10 mm 100 mm 75 mm 5 mm 5 mm 5 kg Connections/ Terminals type of electrical connection • for main current circuit • for control circuit spring-loaded terminals width of connection bar maximum 25 mm	width	185 mm
 forwards backwards upwards downwards downwards at the side 5 mm weight without packaging 5.6 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum 25 mm	depth	203 mm
backwards upwards upwards downwards at the side s mm weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum 0 mm 100 mm 5 mm 5 mm 5 mm box terminal spring-loaded terminals	required spacing with side-by-side mounting	
 upwards downwards at the side 5 mm weight without packaging 5.6 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum 25 mm	• forwards	
 ● downwards ● at the side 5 mm weight without packaging 5.6 kg Connections/ Terminals type of electrical connection ● for main current circuit ● for control circuit box terminal ● for control circuit width of connection bar maximum 25 mm 	• backwards	0 mm
● at the side 5 mm weight without packaging 5.6 kg Connections/ Terminals type of electrical connection ● for main current circuit box terminal ● for control circuit spring-loaded terminals width of connection bar maximum 25 mm	·	
weight without packaging Connections/ Terminals type of electrical connection of or main current circuit box terminal of or control circuit spring-loaded terminals width of connection bar maximum 5.6 kg box terminal box terminal spring-loaded terminals		
type of electrical connection • for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm		
type of electrical connection • for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm		5.6 kg
• for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm	Connections/ Terminals	
● for control circuit spring-loaded terminals width of connection bar maximum 25 mm	••	
width of connection bar maximum 25 mm		box terminal
wire length for thermistor connection		25 mm

 with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 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)
 using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 using the front clamping point stranded 	1x (10 70 mm²)
 using the back clamping point solid 	1x (2.5 16 mm²)
 r box terminal using the back clamping point 	1x (10 2/0)
 using both clamping points solid 	2x (2.5 16 mm²)
 using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 using the back clamping point finely stranded with core 	1x (2.5 50 mm²)
end processing	
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)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
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 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 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
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	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; Iq = 10 kA
— 60/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
— at 460/460 V at inside-delta circuit according to the	Siemens type, 3 v A3 i, max. 123 A, iq = 10 kA
 — at 460/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit 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 - at 575/600 V according to UL - at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA51, max. 125 A; Ig = 10 kA of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 250 A; Iq = 10 kA according to UL - usable for High Faults up to 575/600 V according to Type: Class J / L, max. 250 A; Iq = 100 kA UL - usable for Standard Faults at inside-delta circuit up Type: Class RK5 / K5, max. 250 A; Iq = 10 kA to 575/600 V according to UL usable for High Faults at inside-delta circuit up to Type: Class J / L, max. 250 A; Iq = 100 kA 575/600 V according to UL 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 according to UL R300-B300 **Electrical Safety** protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover

Approvals Certificates

General Product Approval





Confirmation







General Product Approval

EMV

Test Certificates

Marine / Shipping





<u>KC</u>

Type Test Certificates/Test Report





Marine / Shipping

other

Environment





Confirmation





Environmental Confirmations

Further information

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=3RW5226-3TC14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5226-3TC14}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC14

nttps://support.industry.siemens.com/cs/ww/en/ps/3RW5226-31C14 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

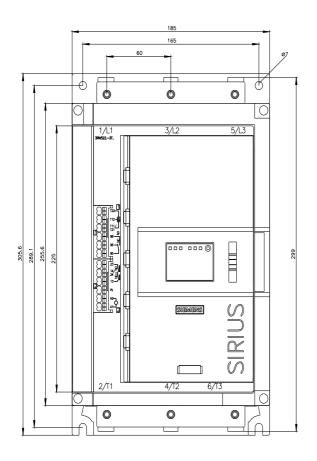
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC14/char

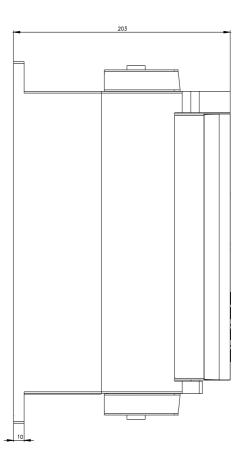
Characteristic: Installation altitude

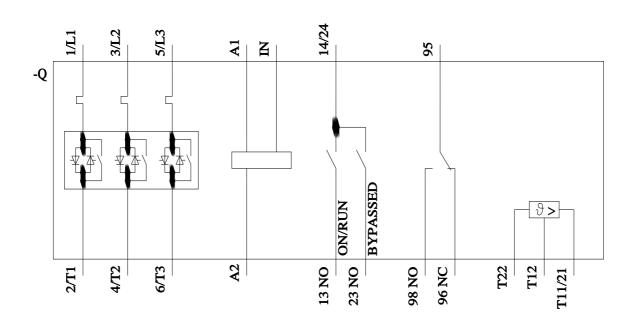
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5226-3TC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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