SIEMENS

Data sheet 3RW5226-3TC04



SIRIUS soft starter 200-480 V 77 A, 24 V AC/DC spring-type terminals Thermistor input

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 	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 50 %
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 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		
For control circuit	buffering time in the event of power failure	
Insulation voltage rated value degree of pollution Impulse voltage rated value blocking voltage of the thyristor maximum service factor service factor • the ween main and auxiliary circuit • between main and auxiliary circuit • solock resistance • Ultration resistance • Ultration resistance • Ultration resistance • contraction (off stop) • resistance Prohibitance (Date)	for main current circuit	100 ms
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inside-delta circuit operating power for 3-phase motors		-13 /0
		10 %
• at 230 V at 40 °C rated value 22 kW	operating power for 3-phase motors	
	• at 230 V at 40 °C rated value	22 kW

a at 220 V at incide delta sirevit at 40 °Ctt!	27 MM
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	20.4
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 	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
of rinside-delta circuit at rotary coding switch on switch position 1.	55.4 A
 switch position 1 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
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ior inside-delta circuit at rotary coding switch on switch position 13 for 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	133 A
switch position 16 • 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
are of arter eventup	

power loss [W] at AC at current limitation 350 %	4.40=344
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/DC
control supply voltage at AC	
 at 50 Hz rated value 	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply	10 %
voltage frequency	
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	380 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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
• 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	
for main current circuit	box terminal
for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
 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)
 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)
 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 for main contacts for box terminal using both	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 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
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 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 temperatureduring operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
- during atomorphic and formation	above
during storage and transport	-40 +80 °C
 environmental category during operation acc. 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 acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must

General Product Approval	EMC Declaration Conformity	
ertificates/ approvals		
electromagnetic compatibility	in accordance with IEC 60947-4-2	
ouch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover	
fety related data		
ontact rating of auxiliary contacts according to UL	R300-B300	
• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp	
at 220/230 V at inside-delta circuit at 50 °C rated value	40 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp	
• at 460/480 V at 50 °C rated value	50 hp	
• at 220/230 V at 50 °C rated value	25 hp	
at 200/208 V at 50 °C rated value	20 hp	
perating power [hp] for 3-phase motors		
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 250 A; Iq = 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; Iq = 10 kA	
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 250 A; Iq = 100 kA	
usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 250 A; Iq = 10 kA	
• of the fuse		
usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
usable for High Faults at 460/480 V at insidedelta circuit 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	Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
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 according to UL	Siemens type: 3VA51, max. 125 A; Iq = 10 kA	
of circuit breaker		
nanufacturer's article number		
/CSA ratings		
PROFIBUS	Yes	
Modbus TCP	Yes	
Modbus RTU	Yes	
• EtherNet/IP	Yes	
PROFINET standard	Yes	
ommunication module is supported		
ommunication/ Protocol	acc. to 1EC 00347-4-2. Class A	
during transport acc. to IEC 60721 MC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A	
- during transport and to IEC 60704	01/0 004 004 0M0 (may fall baimbt 0.0 ms)	













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=3RW5226-3TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-3TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5226-3TC04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

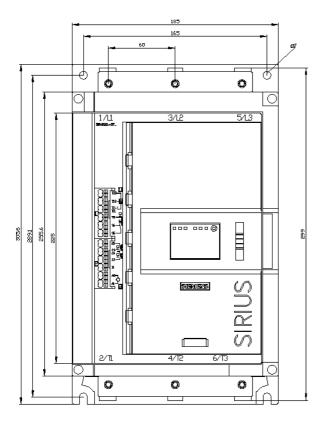
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-3TC04/char

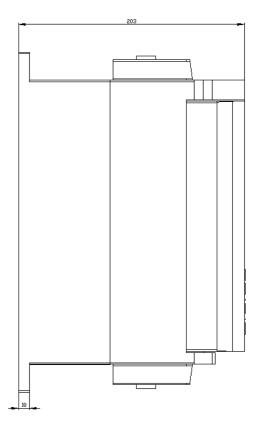
Characteristic: Installation altitude

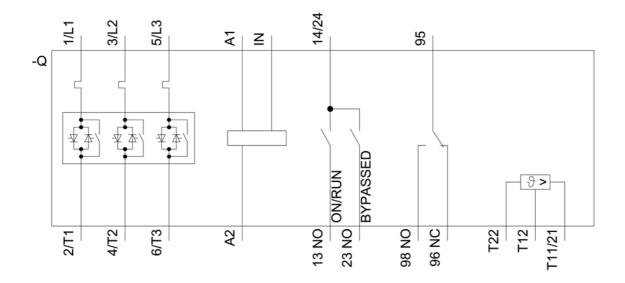
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-3TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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