SIEMENS

3RW5236-2TC14 **Data sheet**



SIRIUS soft starter 200-480 V 171 A, 110-250 V AC spring-type terminals Thermistor input

product designation Soft starter product ye designation 3RW52 analizaturer's article number of standard HMI module usable of communication module PROFINET standard 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 400 V of circuit breaker usable at 400 V at inside-delta circuit of the gG fuse usable at 500 V at inside-delta circuit of the gG fuse usable at inside-delta circuit up to 500 V of flack-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of back-up 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 of	product brand name	SIRIUS
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current limiting value [%] adjustable certificate of suitability • CE marking • UL approval • CSA approval Product component is supported • HMI-Standard • HMI-High Feature 130 700 % Yes Yes Yes Yes Yes	stopping voltage [%]	50 50 %
certificate of suitability CE marking UL approval CSA approval HMI-Standard HMI-High Feature Yes Yes Yes Yes	start-up ramp time of soft starter	0 20 s
 CE marking UL approval CSA approval Product component is supported HMI-Standard HMI-High Feature Yes 	current limiting value [%] adjustable	130 700 %
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product component is supported ● HMI-Standard Yes ● HMI-High Feature Yes	UL approval	Yes
HMI-StandardHMI-High FeatureYes	CSA approval	Yes
HMI-High Feature Yes	product component is supported	
	HMI-Standard	Yes
product feature integrated bypass contact system 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	CEASS TOA (default) / TOE / 20E, acc. to IEO 00347-4-2
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 IEC 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	ONV
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
Substance Prohibitance (Date)	_
product function	10.02.2010 00.00.00
• ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
Soft Torque	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)
 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	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	171 A
at 50 °C rated value	153 A
at 60 °C rated value	141 A
operational current at inside-delta circuit	
 at 40 °C rated value 	296 A
at 50 °C rated value	265 A
at 60 °C rated value	244 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	
 at 230 V at 40 °C rated value 	45 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	90 kW
 at 400 V at 40 °C rated value 	90 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	160 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 	81 A
 at rotary coding switch on switch position 2 	87 A
 at rotary coding switch on switch position 3 	93 A
 at rotary coding switch on switch position 4 	99 A
 at rotary coding switch on switch position 5 	105 A
 at rotary coding switch on switch position 6 	111 A
 at rotary coding switch on switch position 7 	117 A
at rotary coding switch on switch position 8	123 A
 at rotary coding switch on switch position 9 	129 A
at rotary coding switch on switch position 10	135 A
at rotary coding switch on switch position 11	141 A
at rotary coding switch on switch position 12	147 A
at rotary coding switch on switch position 13	153 A
at rotary coding switch on switch position 14	159 A
at rotary coding switch on switch position 15	165 A
at rotary coding switch on switch position 16	171 A
• minimum	81 A
adjustable motor current	
for inside-delta circuit at rotary coding switch on switch position 1	140 A
 for inside-delta circuit at rotary coding switch on switch position 2 	151 A
 for inside-delta circuit at rotary coding switch on switch position 3 	161 A
 for inside-delta circuit at rotary coding switch on switch position 4 	171 A
 for inside-delta circuit at rotary coding switch on switch position 5 	182 A
 for inside-delta circuit at rotary coding switch on switch position 6 	192 A
 for inside-delta circuit at rotary coding switch on switch position 7 	203 A
 for inside-delta circuit at rotary coding switch on switch position 8 	213 A
 for inside-delta circuit at rotary coding switch on switch position 9 	223 A
 for inside-delta circuit at rotary coding switch on switch position 10 	234 A
for inside-delta circuit at rotary coding switch on switch position 11	244 A
for inside-delta circuit at rotary coding switch on switch position 12	255 A
for inside-delta circuit at rotary coding switch on switch position 13	265 A
for inside-delta circuit at rotary coding switch on switch position 14	275 A
for inside-delta circuit at rotary coding switch on switch position 15	286 A
 for inside-delta circuit at rotary coding switch on switch position 16 	296 A

	440.4
at inside-delta circuit minimum	140 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	CO.W.
• at 40 °C after startup	63 W
• at 50 °C after startup	58 W
• at 60 °C after startup	54 W
power loss [W] at AC at current limitation 350 %	0.405.14/
• at 40 °C during startup	2 405 W
• at 50 °C during startup	2 037 W
at 60 °C during startup	1 826 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 07014
• 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
locked-rotor current at close of bypass contact	2.5 A
maximum	
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
backwards	0 mm
• upwards	100 mm

downwards	75 mm
at the side	5 mm
weight without packaging	7.15 kg
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	busbar connection
 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 DIN cable lug for main contacts stranded 	2x (16 95 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (25 120 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
tightening torque	
 for main contacts with screw-type terminals 	10 14 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 	89 124 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 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 not get inside the devices), 1M4
during 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/ 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: 3VA52, max. 250 A; Iq = 10 kA
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 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 $\ensuremath{\mathsf{UL}}$

— 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

Siemens type: 3VA52, max. 250 A; Iq = 10 kA

Siemens type: 3VA52, max. 250 A; Iq max = 65 kA

Siemens type: 3VA52, max. 250 A; Iq = 10 kA

Siemens type: 3VA52, max. 250 A; Iq = 10 kA

Type: Class RK5 / K5, max. 400 A; Iq = 10 kA

Type: Class J / L, max. 350 A; Iq = 100 kA

Type: Class RK5 / K5, max. 400 A; Iq = 10 kA

Type: Class J / L, max. 350 A; Iq = 100 kA

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

 \bullet at 200/208 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

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

 \bullet at 460/480 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

50 hp

50 hp 100 hp

75 hp

100 hp

200 hp

contact rating of auxiliary contacts according to UL

R300-B300

Safety related data

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. 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

Declaration of Conformity













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=3RW5236-2TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5236-2TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-2TC14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5236-2TC14&lang=en

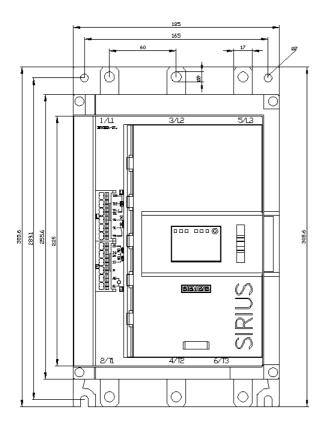
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-2TC14/char

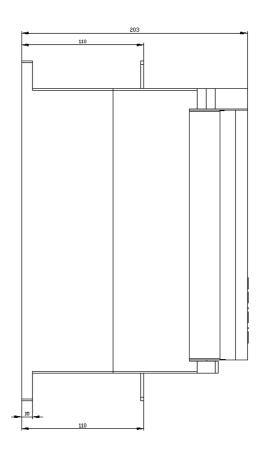
Characteristic: Installation altitude

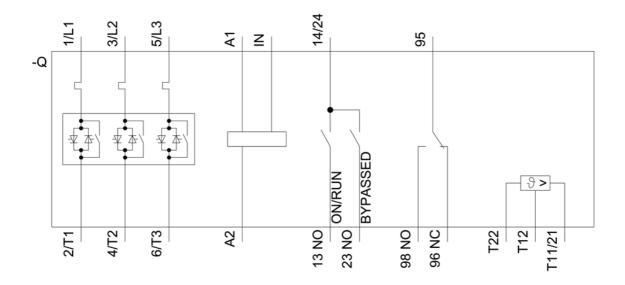
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5236-2TC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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