SIEMENS

product brand name

Data sheet 3RW5236-6AC14

SIRIUS



SIRIUS soft starter 200-480 V 171 A, 110-250 V AC Screw terminals Analog output

product brand name	311103
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 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3365-6: Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1230-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3335; 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
	V/

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	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	1 400 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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
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 HMI)
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
	200 480 V -15 %
relative negative tolerance of the operating voltage	10 %
relative positive tolerance of the operating voltage	
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %

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

minimum load [%] power loss [W] for rated value of the current at AC	at inside-delta circuit minimum	140 A
power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup by at 60 °C after startup at 60 °C after startup at 60 °C during startup by end 60 °C during startup at 60 °C during startup at 60 °C during startup control supply voltage at AC at 60 °Lz relative negative tolerance of the control supply voltage at AC at 60 °Lz relative positive tolerance of the control supply voltage at AC at 60 °Lz relative positive tolerance of the control supply voltage at AC at 60 °Lz relative negative tolerance of the control supply voltage at AC at 60 °Lz relative positive tolerance of the control supply voltage at AC at 60 °Lz relative positive tolerance of the control supply voltage at AC at 60 °Lz control supply voltage frequency relative positive tolerance of the control supply voltage at AC at 60 °Lz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value holding current peak at application of control supply voltage mirrush current peak at application of control supply voltage frequency duration of invals current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit at A gG fuse ((cu=1 kA), 8 A quick-acting fuse (cu=1 kA), C1 miniatur circuit breaker (cu 600 A), C6 miniature circuit breaker (cu= 300 A) not part of scope of supply in umber of digital i		
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supply voltage design of the overvoltage protection design of short-circuit protection for control circuit 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniatu circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A not part of scope of supply Inputs/ Outputs number of digital inputs number of inputs for thermistor connection number of digital outputs onot parameterizable digital output version number of analog outputs 1 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs		12.2 A
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 not part of scope of supply Inputs/ Outputs 1 number of digital inputs for thermistor connection 0 number of digital outputs 3 ● not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1		2.2 ms
circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A not part of scope of supply Inputs/ Outputs number of digital inputs number of inputs for thermistor connection number of digital outputs ont parameterizable digital output version number of analog outputs 1 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs	design of the overvoltage protection	Varistor
number of digital inputs 1 number of inputs for thermistor connection 0 number of digital outputs 3 ● not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1	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
number of inputs for thermistor connection 0 number of digital outputs 3 ● not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1	Inputs/ Outputs	
number of digital outputs 3 ● not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1	number of digital inputs	1
◆ not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1	number of inputs for thermistor connection	0
digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1	number of digital outputs	3
number of analog outputs 1	not parameterizable	2
	digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
switching canacity current of the relay outputs	number of analog outputs	1
Switching cupacity current of the relay outputs	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		1 A
Installation/ mounting/ dimensions	Installation/ mounting/ dimensions	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back	mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method screw fixing	fastening method	screw fixing
height 306 mm	height	306 mm
width 185 mm	width	185 mm
depth 203 mm	•	203 mm
required spacing with side-by-side mounting	required spacing with side-by-side mounting	
• forwards 10 mm	forwards	10 mm
• backwards 0 mm	backwards	
• upwards 100 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	screw-type terminals
width of connection bar maximum	25 mm
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 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
for control circuit finely stranded with core end presenting.	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing • at AWG cables for control circuit solid	1, (20 12) 2, (20 14)
wire length	1x (20 12), 2x (20 14)
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
tightening torque	100 111
for main contacts with screw-type terminals	10 14 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	V.V 1/2 IV III
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	89 124 lbf·in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
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
• during storage acc. 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 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	Van
PROFINET standard Fither Not // P.	Yes
EtherNet/IP Medbus BTII	Yes
Modbus RTU Modbus TCD	Yes
Modbus TCP DROFIBLIS	Yes
PROFIBUS III (CSA vations)	Yes
UL/CSA ratings	
manufacturer's article number • of circuit breaker	
— usable for Standard Faults at 460/480 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
according to UL — usable for High Faults at 460/480 V according	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
to UL — usable for Standard Faults at 460/480 V at	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
delta circuit according to UL — usable for Standard Faults at 575/600 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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

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

• 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 50 hp

100 hp

75 hp

100 hp

200 hp

contact rating of auxiliary contacts according to UL

R300-B300

Safety related data

touch protection 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=3RW5236-6AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5236-6AC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5236-6AC14&lang=en

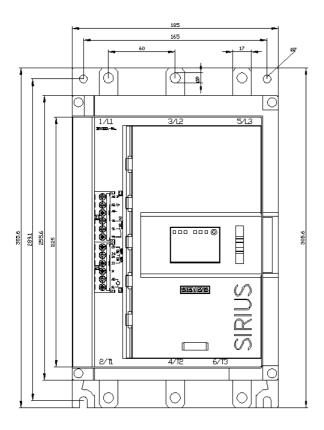
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6AC14/char

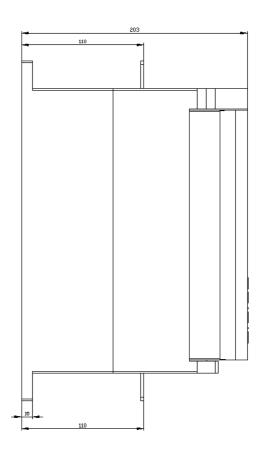
Characteristic: Installation altitude

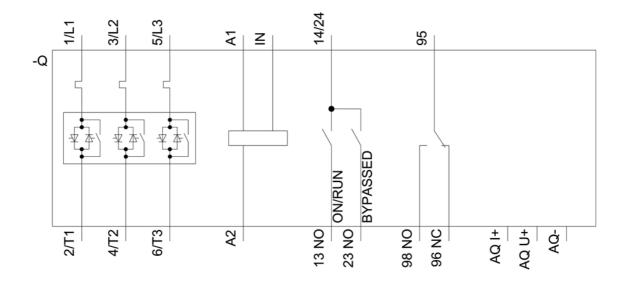
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5236-6AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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