SIEMENS

Data sheet 3RW5236-6AC14



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

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 	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, lq = 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 %; 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

trin class	CLASS 10A (default) / 10E / 20E; 202 to IEC 60047 4.2	
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2	
buffering time in the event of power failure	100 mg	
for main current circuit for control circuit	100 ms	
for control circuit inculation voltage rated value	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	600.1/	
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 according to IEC 60947-4-2	AC 53a	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	02/15/2018	
product function	Voc	
• ramp-up (soft starting)	Yes	
• ramp-down (soft stop)	Yes	
Soft Torque	Yes	
adjustable current limitation	Yes	
pump ramp down intrinsis dovides protection	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 You	
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	
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	40.0/	
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 at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value 90 kW at 400 V at inside-delta circuit at 40 °C rated value Derating frequency 1 rated value 60 Hz relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 at rotary coding switch on switch position 9 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 15
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adjustable motor current
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 for inside-delta circuit at rotary coding switch on switch position 2
 for inside-delta circuit at rotary coding switch on switch position 3
 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
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switch position 13
• for inside-delta circuit at rotary coding switch on switch position 14 • for inside delta circuit at rotary coding switch on 275 A
 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on 296 A
 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum 140 A
minimum load [%] 140 A 15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC
• 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 %	
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	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz	
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	
Inputs/ Outputs number of digital inputs	
	not part of scope of supply
number of digital inputs	not part of scope of supply 1
number of digital inputs number of digital outputs	not part of scope of supply 1 3
number of digital inputs number of digital outputs • not parameterizable	not part of scope of supply 1 3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
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number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
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width of composition has maximum	QE years		
width of connection bar maximum type of connectable conductor cross-sections	25 mm		
21	2v (4C = 0F mans ²)		
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 processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)		
wire length	17 (20 12), 27 (20 14)		
between soft starter and motor maximum	800 m		
at the digital inputs at AC maximum tightening torque	100 m		
tightening torque	10 14 N·m		
for main contacts with screw-type terminals			
 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	7 10.3 lbf·in		
terminals	7 10.0 IDI III		
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)		
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 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA		
 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA		
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA		
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA		
• of the fuse			
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 400 A; Iq = 10 kA		
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; lq = 100 kA		
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 400 A; lq = 10 kA		

to 575/600 V according to UL			
operating power [hp] for 3-phase motors			
at 200/208 V at 50 °C rated value	50 hp		
 at 220/230 V at 50 °C rated value 	50 hp		
 at 460/480 V at 50 °C rated value 	100 hp		
 at 200/208 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 	100 hp		
 at 460/480 V at inside-delta circuit at 50 °C rated value 	200 hp		
contact rating of auxiliary contacts according to UL	R300-B300		
Safety related data			
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		
electromagnetic compatibility	in accordance with IEC 60947-4-2		
Certificates/ approvals			
General Product Approval		EMC	





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

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

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, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5236-6AC14\&lang=en}}$

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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