SIEMENS

Data sheet

3RW5245-6AC15



SIRIUS soft starter 200-600 V 315 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 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	<u>3VA2440-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2580-6HN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2580-6HN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1334-2;</u> Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3336;</u> 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
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	

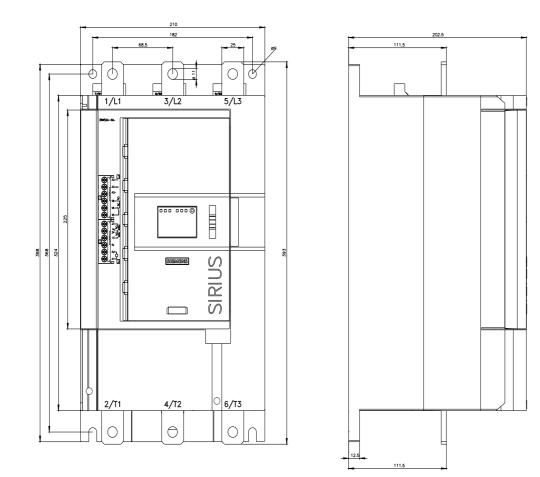
e for main ourront orouit	100 mg			
 for main current circuit for control circuit 	100 ms			
insulation voltage rated value	100 ms			
	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 600 V			
service factor	1			
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 according to IEC 60947-4-2	AC 53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	02/15/2018			
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	Vec			
via software configurable PROFlenergy	Yes			
 via software configurable PROFlenergy 	Yes Yes; in connection with the PROFINET Standard communication module			
PROFlenergy	Yes; in connection with the PROFINET Standard communication			
•	Yes; in connection with the PROFINET Standard communication module			
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes			
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No			
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes			
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature			
 PROFlenergy firmware update removable terminal for control circuit torque control analog output 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature			
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 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 315 A 279 A			
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 315 A 279 A			
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 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 40 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 315 A 279 A 255 A 546 A			
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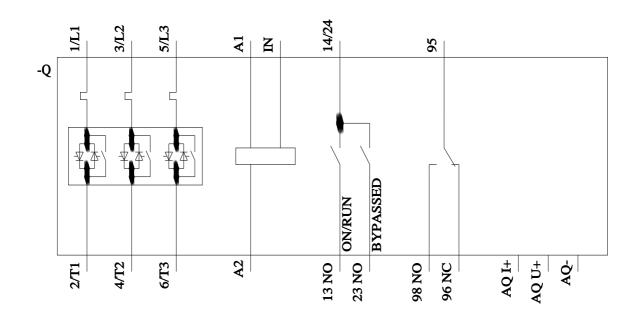
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switch position 11462 A• for inside-delta circuit at rotary coding switch on switch position 12462 A• for inside-delta circuit at rotary coding switch on switch position 13483 A• for inside-delta circuit at rotary coding switch on switch position 14504 A• for inside-delta circuit at rotary coding switch on switch position 15504 A• for inside-delta circuit at rotary coding switch on switch position 15525 A• for inside-delta circuit at rotary coding switch on switch position 16546 A• at inside-delta circuit minimum234 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC15 %; Relative to smallest settable le		421 A
switch position 12483 A• for inside-delta circuit at rotary coding switch on switch position 13504 A• for inside-delta circuit at rotary coding switch on switch position 14504 A• for inside-delta circuit at rotary coding switch on switch position 15525 A• for inside-delta circuit at rotary coding switch on switch position 15546 A• at inside-delta circuit minimum234 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC500 minimum		442 A
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switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 525 A • for inside-delta circuit at rotary coding switch on switch position 16 546 A • at inside-delta circuit minimum 234 A minimum load [%] 15 %; Relative to smallest settable le power loss [W] for rated value of the current at AC 525 A	switch position 13	483 A
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switch position 16 234 A • at inside-delta circuit minimum 234 A minimum load [%] 15 %; Relative to smallest settable le power loss [W] for rated value of the current at AC 15 %; Relative to smallest settable le	switch position 15	
minimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC	switch position 16	
power loss [W] for rated value of the current at AC		
		15 %; Relative to smallest settable le
• at 40 °C after startup 107 W		107.14
	·	
• at 50 °C after startup 96 W	•	
• at 60 °C after startup 89 W		09 W
power loss [W] at AC at current limitation 350 %		5 250 M
• at 40 °C during startup 5 350 W		
at 50 °C during startup 4 471 W at 60 °C during startup 3 934 W		
Control circuit/ Control	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 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	-10 %
voltage frequency	
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	100 mA
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 digital outputs	3
 not parameterizable 	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
- .	
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	3 A 1 A
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	1 A
 switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
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 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
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 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
 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 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
 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 forwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm
 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 forwards backwards upwards downwards 	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm
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according to UL	 of circuit breaker 			
to ULKA		Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
 inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to 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 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 High Faults up to 575/600 V according to UL usable for Standard Faults up to 575/600 V according to UL usable for Standard 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V at 50 °C rated value at 220/230 V at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value				
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according to ULSimens type: 3VA54, max. 600 A; lq = 18 kA usable for Standard Faults at 575/600 V at inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq = 18 kA usable for Standard Faults up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 18 kA usable for High Faults up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V at 50 °C rated value75 hp• at 200/208 V at 50 °C rated value200 hp• at 200/208 V at inside-delta circuit at 50 °C rated value200 hp• at 460/480 V at inside-delta circuit at 50 °C rated value200 hp• at 460/480 V at inside-delta circuit at 50 °C rated value200 hp• at 460/480 V at inside-delta circuit at 50 °C rated value400 hp<		Siemens type: 3VA54, max. 600 A; lq max = 65 kA		
inside-delta circuit according to UL of the fuse		Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
usable for Standard Faults up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 18 kA usable for High Faults up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 18 kA usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta to 575/600 V according to ULType: Class J / L, max. 1000 A; lq = 100 kA usable for High Faults at inside-delta to 200 PType: Class J / L, max. 1000 A; lq = 100 kA at 220/230 V at 50 °C rated value200 hp at 220/230 V at inside-delta circuit at 50 °C rated value200 hp at 460/480 V at inside-delta circuit at 50 °C rated value200 hp at 460/480 V at inside-delta circuit at 50 °C rated value400 hp at 460/480 V at inside-delta circuit at 50 °C rated value500 hp	inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
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— usable for High Faults at inside-delta circuit up to 575/600 V according to ULType: Class J / L, max. 1000 A; Iq = 100 kAoperating power [hp] for 3-phase motors—• at 200/208 V at 50 °C rated value75 hp• at 220/230 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value200 hp• at 200/208 V at 50 °C rated value250 hp• at 200/208 V at inside-delta circuit at 50 °C rated150 hp• at 220/230 V at inside-delta circuit at 50 °C rated200 hp• at 220/230 V at inside-delta circuit at 50 °C rated200 hp• at 220/230 V at inside-delta circuit at 50 °C rated200 hp• at 460/480 V at inside-delta circuit at 50 °C rated200 hp• at 250/208 V at inside-delta circuit at 50 °C rated200 hp• at 250/200 V at inside-delta circuit at 50 °C rated200 hp• at 460/480 V at inside-delta circuit at 50 °C rated200 hp• at 460/480 V at inside-delta circuit at 50 °C rated200 hp• at 450/480 V at inside-delta circuit at 50 °C rated400 hp• at 450/480 V at inside-delta circuit at 50 °C rated400 hp	usable for Standard Faults at inside-delta	Type: Class J / L, max. 1000 A; Iq = 18 kA		
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value • at 575/600 V at inside-delta circuit at 50 °C rated 500 hp value	• at 220/230 V at inside-delta circuit at 50 °C rated	200 hp		
value	• at 460/480 V at inside-delta circuit at 50 °C rated	400 hp		
contact rating of auxiliary contacts according to UL R300-B300		500 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 electromagnetic compatibility		finger-safe, for vertical in accordance with IEC	contact from the front wit C 60947-4-2	h cover	
Certificates/ approvals					
General Product A	pproval				EMC
		<u>Confirmation</u>		EHC	RCM
Declaration of Con	formity	Test Certificat	es Marine / Shipp	bing	
UK CA	CE EG-Konf.	<u>Type Test Cert</u> ates/Test Rep		B UREAU VERITAS	Llovd's Register urs
Marine / Shipping	other				
PRS	<u>Confirmation</u>				
Further information	ownloadcenter (Catalo	ogs. Brochures)		
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5245-6AC15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-6AC15					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC15					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-6AC15⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current					
https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC15/char Characteristic: Installation altitude					
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-6AC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917					
nttps://support.industry.siemens.com/cs/ww/en/view/101494917					





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