SIEMENS

Data sheet

3RW5216-3AC04



SIRIUS soft starter 200-480 V 32 A, 24 V AC/DC spring-type 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 	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 500 V 	<u>3RV2032-4VA10;</u> Type of coordination 1, Iq = 10 kA, CLASS 10				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4JA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4JA10;</u> Type of coordination 1, Iq = 10 kA, CLASS 10				
 of the gG fuse usable up to 690 V 	<u>3NA3824-6;</u> Type of coordination 1, Iq = 65 kA				
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6;</u> Type of coordination 1, Iq = 65 kA				
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0;</u> Type of coordination 2, Iq = 65 kA				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1;</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					

• 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	3, acc. to IEC 60947-4-2 6 kV				
blocking voltage of the thyristor maximum	1 600 V				
service factor	1 600 V				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation					
 between main and auxiliary circuit 	600 V				
shock resistance					
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting 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	AC 53a 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	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	20.4				
• at 40 °C rated value	32 A				
• at 50 °C rated value	28.4 A				
at 60 °C rated value	26 A				
 operational current at inside-delta circuit at 40 °C rated value 	55.4 A				
• at 50 °C rated value	55.4 A 49 A				
at 50 °C rated value					
	45 A				
operating voltage rated value 	200 490 \/				
 rated value at inside-delta circuit rated value 	200 480 V 200 480 V				
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	-15 % 10 %				
relative positive 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	7.5 kW				
 at 230 V at inside-delta circuit at 40 °C rated value 	15 kW				
 at 400 V at 40 °C rated value 	15 kW				
 at 400 V at 40 Chated value at 400 V at inside-delta circuit at 40 °C rated value 	22 kW				

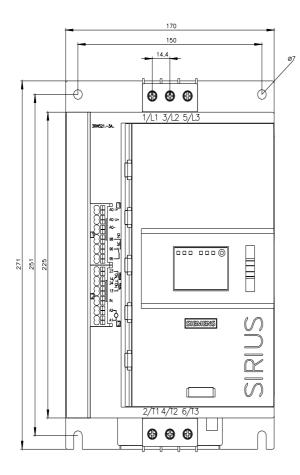
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	14 A
 at rotary coding switch on switch position 2 	15.2 A
at rotary coding switch on switch position 3	16.4 A
at rotary coding switch on switch position 4	17.6 A
at rotary coding switch on switch position 5	18.8 A
 at rotary coding switch on switch position 6 	20 A
 at rotary coding switch on switch position 7 at rotary coding switch on switch position 2 	21.2 A 22.4 A
 at rotary coding switch on switch position 8 at rotary coding switch on switch position 0 	22.4 A 23.6 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	23.0 A 24.8 A
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	26 A
 at rotary coding switch on switch position 12 	27.2 A
at rotary coding switch on switch position 13	28.4 A
 at rotary coding switch on switch position 14 	29.6 A
 at rotary coding switch on switch position 15 	30.8 A
 at rotary coding switch on switch position 16 	32 A
• minimum	14 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	24.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	26.3 A
 for inside-delta circuit at rotary coding switch on switch position 3 	28.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	30.5 A
 for inside-delta circuit at rotary coding switch on switch position 5 	32.6 A
• for inside-delta circuit at rotary coding switch on switch position 6	34.6 A
• for inside-delta circuit at rotary coding switch on switch position 7	36.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside data circuit at rotary coding switch on 	38.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside data circuit at rotary coding switch on 	40.9 A 43 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	45 A
 Ior inside delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	47.1 A
 switch position 12 for inside-delta circuit at rotary coding switch on 	49.2 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	51.3 A
switch position 14 for inside-delta circuit at rotary coding switch on 	53.3 A
switch position 15 for inside-delta circuit at rotary coding switch on 	55.4 A
switch position 16	
at inside-delta circuit minimum	24.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	22.14
• at 40 °C after startup	22 W
 at 50 °C after startup at 60 °C after startup 	21 W 20 W
• at 60°C after startup power loss [W] at AC at current limitation 350 %	20 **
• at 40 °C during startup	531 W
• at 50 °C during startup	449 W
• at 60 °C during startup	395 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

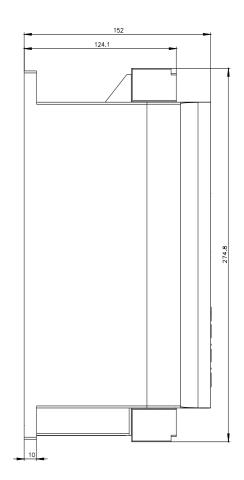
 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive 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 voltage frequency	10 %
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	360 mA
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
Investor / Outputs	
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2 2 permetty and contacts (NO) / 4 phonescours contact (CO)
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 1
switching capacity current of the relay outputs	3 A
 at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	1A
	TA
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	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	10
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards at the side	75 mm
 at the side weight without packaging 	5 mm
	2.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit type of connectable conductor cross sections	spring-loaded terminals
type of connectable conductor cross-sections	
 for main contacts — solid 	$2x(10, 25 \text{ mm}^2)$ $2x(25, 10 \text{ mm}^2)$
	$2x (1.0 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$
 finely stranded with core end processing at AWG cables for main current circuit solid 	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
 for control circuit colid 	$2x (0.25 \pm 1.5 \text{ mm}^2)$
 for control circuit solid for control circuit finely stranded with core end 	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)

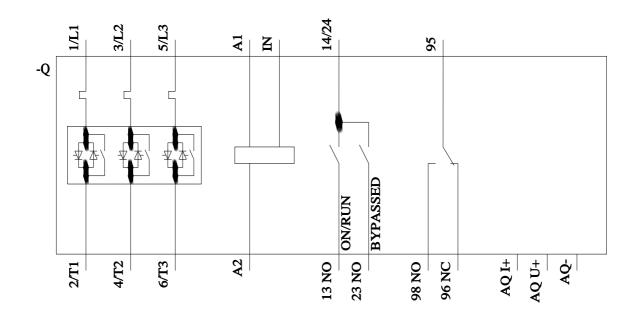
processing					
 at AWG cables for control circuit solid 	2x (24 16)				
 at AWG cables for control circuit finely stranded with 	2x (24 16)				
core end processing					
wire length					
 between soft starter and motor maximum 	800 m				
 at the digital inputs at AC maximum 	100 m				
 at the digital inputs at DC maximum 	1 000 m				
tightening torque					
 for main contacts with screw-type terminals 	2 2.5 N·m				
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m				
terminals					
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	18 22 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 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				
EtherNet/IPModbus RTU					
	Yes				
Modbus RTU	Yes Yes				
 Modbus RTU Modbus TCP PROFIBUS 	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL	Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V	Yes Yes Yes				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at	Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65				
Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings Manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA				
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• at 220/230 V at value	inside-delta circuit at 5	50 °C rated	15 hp)		
	inside-delta circuit at 5	50 °C rated	30 hp)		
	iliary contacts accor	ding to UL	R300	-B300		
Safety related data	,,					
protection class IP o 60529	n the front according	g to IEC	IP20			
•	-			finger-safe, for vertical contact from the front		
electromagnetic compatibility in accordance with IEC 60947-4-2						
Certificates/ approvals			_			
General Product Ap	proval					EMC
	<u>Confirmation</u>)	(UL) JL	EAC	RCM
Declaration of Confe	ormity	Test Certifica	ates	Marine / Shipping		
UK CA	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyd's Register urs
Marine / Shipping	other					
PRS	<u>Confirmation</u>					
Further information						
	wnloadcenter (Catalo	as Brochures)			
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Online https://mall.industry.si		n/Catalog/produc	t?mlfb=	<u>3RW5216-3AC04</u>		
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5216-3AC04						
Service&Support (Ma https://support.industr	anuals, Certificates, (y.siemens.com/cs/ww/	Characteristics, /en/ps/3RW5216	FAQs, -3AC04)		acros)
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5216-3AC04⟨=en						
Characteristic: Tripp https://support.industr	ing characteristics, I					
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		ndex.aspx?view	=Search	a&mlfb=3RW5216-3AC	04&objecttype=14&gri	idview=view1
Simulation Tool for S		lon/viow/101404	017			
https://support.industr	y.siemens.com/cs/WW/	<u>en/view/101494</u>	<u>917</u>			

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