SIEMENS

Data sheet

3RW5215-3AC05



SIRIUS soft starter 200-600 V 25 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 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	<u>3NA3822-6; Type of coordination 1, Iq = 65 kA</u>
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3822-6: Type of coordination 1. Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0: Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8021-1; Type of coordination 2, Iq = 65 kA</u>
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	
	No
HMI-High Feature	
HMI-High Feature is supported HMI-Standard	Yes
-	Yes Yes
• is supported HMI-Standard	

trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	0LA00 TVA (uctauli) / TVE / ZVE, act. to TEC 00947-4-2
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	1 600 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
¥	02/15/2018
Substance Prohibitance (Date)	02/15/2016
product function	Voc
 ramp-up (soft starting) ramp down (soft stop) 	Yes
ramp-down (soft stop)	
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down intrincia dovice 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
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	25 A
• at 50 °C rated value	22 A
• at 60 °C rated value	20 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
• at 60 °C rated value	33.9 A
operating voltage	
rated value	200 600 V
at inside-delta circuit rated value	200 600 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 inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	

• at 400 V at 40 °C rated value11 kW• at 400 V at inside-delta circuit at 40 °C rated value15 kW• at 500 V at inside-delta circuit at 40 °C rated value15 kW• at 500 V at inside-delta circuit at 40 °C rated value50 kzOperating frequency 1 rated value60 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency10 %relative negative tolerance of the operating frequency10 %adjustable motor current11.5 A• at rotary coding switch on switch position 111.5 A• at rotary coding switch on switch position 313.3 A• at rotary coding switch on switch position 414.2 A• at rotary coding switch on switch position 515.1 A• at rotary coding switch on switch position 716.9 A• at rotary coding switch on switch position 710.9 A• at rotary coding switch on switch position 110.5 A• at rotary coding switch on switch position 110.6 A• at rotary coding switch on switch position 120.5 A• at rotary coding switch on switch position 120.5 A• at rotary coding switch on switch position 1322.3 A• at rotary coding switch on switch position 1423.2 A• at rotary coding switch on switch position 1524.1 A• at rotary coding switch on switch position 1423.2 A• at rotary coding switch on switch position 1524.1 A• at rotary coding switch on switch position 1524.1 A• at rotary coding switch on switch position 1625 A•	 for inside-delta circuit at rotary coding switch on 	27.7 A
 et 400 V at inside-delta circuit at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 22 kW 20 perating frequency 1 rated value 50 Hz 60 Hz 71 0 % 72 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 for inside-delta circuit at rotary coding switch on switch position 5 	26.2 A
• at 400 V at inside-delta circuit at 40 °C rated value 18.5 kW • at 500 V at 40 °C rated value 15 kW • at 500 V at inside-delta circuit at 40 °C rated value 22 kW Operating frequency 1 rated value 60 Hz • at rolary coding switch on switch position 1 10 % • at rolary coding switch on switch position 2 12.4 A • at rolary coding switch on switch position 5 15.1 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 7 16.9 A • at rolary coding switch on switch position 11 20.5 A • at rolary coding switch on switch position 11 20.5 A • at rolary coding switch on switch position 12 21.4 A • at rolary coding switch on switch position 12 21.4 A • at rolary coding switch on switch position 12 21.4 A • at rolary coding switch on switch position 13 23.2 A • at rolary coding switch on switch position 14 23.		24.6 A
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 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 22 kW 	Operating frequency 2 rated value	60 Hz
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 18.5 kW 15 kW 	Operating frequency 1 rated value	50 Hz
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 18.5 kW 15 kW 		
• at 400 V at inside-delta circuit at 40 °C rated value 18.5 kW		
	• at 500 V at 40 °C rated value	15 kW
• at 400 V at 40 °C rated value 11 kW	 at 400 V at inside-delta circuit at 40 °C rated value 	18.5 kW
	 at 400 V at 40 °C rated value 	11 kW
• at 230 V at inside-delta circuit at 40 °C rated value 11 kW	 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
• at 230 V at 40 °C rated value 5.5 kW		5.5 KVV

• at 40 °C after startup	20 W
• at 50 °C after startup	19 W
at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	376 W
• at 50 °C during startup	318 W
• at 60 °C during startup	278 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
locked-rotor current at close of bypass contact maximum	0.75 A
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
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
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
 backwards 	0 mm
 upwards 	100 mm

downwards	75 mm
advinwards at the side	75 mm 5 mm
• at the side weight without packaging	2.1 kg
Connections/ Terminals	2.1 Ng
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	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 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
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 terminals 	0.8 1.2 N·m
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	acc. to IEC 60947-4-2: Class A
communication module is supported	
communication module is supportedPROFINET standard	Yes
communication module is supported • PROFINET standard • EtherNet/IP	Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • 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 Yes
communication module is supported • PROFINET standard • EtherNet/IP • 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	Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65
communication module is supported • PROFINET standard • EtherNet/IP • 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 Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA

 usable for St according to UL 	andard Faults at 575	5/600 V	Siemens	type: 3RV2742, m	nax. 70 A or 3VA51, m	ax. 80 A; lq = 5 kA
- usable for St	andard Faults at 575	5/600 V at	Siemens	type: 3RV2742, m	nax. 70 A or 3VA51, m	ax. 80 A; Iq = 5 kA
	cuit according to UL					
of the fuse	andard Faults up to	575/600 \/	Type: Cla	cc PK5 / K5 may	. 100 A; lg = 5 kA	
according to UL	-					
 usable for Hi according to UL 	igh Faults up to 575/6 -	600 V		ss J / L, max. 100		
	andard Faults at insi 5/600 V according to		Type: Cla	ss RK5 / K5, max	. 100 A; lq = 5 kA	
— usable for Hi to 575/600 V ac	igh Faults at inside-d ccording to UL	elta circuit up	Type: Cla	ss J / L, max. 100	A; lq = 100 kA	
operating power [hp] f	or 3-phase motors					
• at 200/208 V at 50) °C rated value		5 hp			
• at 220/230 V at 50) °C rated value		7.5 hp			
• at 460/480 V at 50	0 °C rated value		15 hp			
• at 575/600 V at 50	0 °C rated value		20 hp			
	side-delta circuit at 5	50 °C rated	10 hp			
value	side-delta circuit at 5		10 hp			
value	side-delta circuit at 5		25 hp			
value			·			
value	side-delta circuit at 5		30 hp	_		
contact rating of auxil	ary contacts accor	ding to UL	R300-B30	00		
afety related data						
protection class IP on	the front according	g to IEC	IP20			
60529						
60529 touch protection on th	e front according to	o IEC 60529	finger-saf	e, for vertical cont	act from the front	
		o IEC 60529		e, for vertical cont ance with IEC 609		
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-3AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-3AC05&lang=en

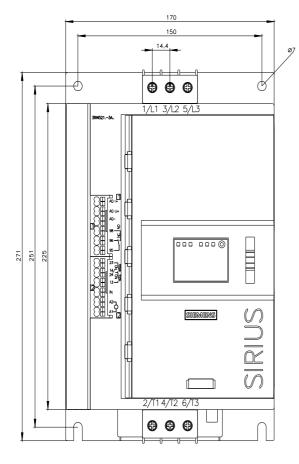
Characteristic: Tripping characteristics, I²t, Let-through current

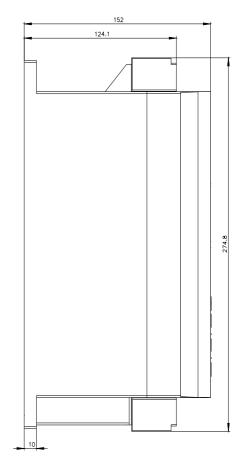
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3AC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-3AC05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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





last modified:

4/10/2022 🖸