SIEMENS

Data sheet

3RW5215-1TC15



SIRIUS soft starter 200-600 V 25 A, 110-250 V AC Screw terminals Thermistor input

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 	<u>3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>		
 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 	3NA3822-6; Type of coordination 1, Iq = 65 kA		
 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 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		
product feature integrated bypass contact system	Yes		

Intersection Ves buffering time in the oven of power failure • (c) main current circuit 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 100 ms 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current circuit 600 V 100 ms • (c) main current current main current current 110 ms 110 ms • (c) main curr	number of controlled phases	3			
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- for control circuit insuited no voltage rated value 600 V 700 P 700		100 ms			
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• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNooperational current25 A• at 40 °C rated value25 A• at 50 °C rated value20 A• operational current at inside-delta circuit43.3 A• at 40 °C rated value39 A• at 60 °C rated value30 A• at 60 °C rated value20 A• at 60 °C rated value10 %• rated value200 600 V• at inside-delta circuit rated value15 %	PROFlenergy				
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 at 50 °C rated value 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 30 600 V 30	operational current				
• at 60 °C rated value20 Aoperational current at inside-delta circuit• at 40 °C rated value43.3 A• at 50 °C rated value39 A• at 60 °C rated value33.9 Aoperating voltage• rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value200 600 V• relative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	• at 40 °C rated value	25 A			
operational current at inside-delta circuit43.3 A• at 40 °C rated value43.3 A• at 50 °C rated value39 A• at 60 °C rated value33.9 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 V• relative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	• at 50 °C rated value	22 A			
• at 40 °C rated value43.3 A• at 50 °C rated value39 A• at 60 °C rated value33.9 Aoperating voltage200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	 at 60 °C rated value 	20 A			
• at 40 °C rated value43.3 A• at 50 °C rated value39 A• at 60 °C rated value33.9 Aoperating voltage200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	operational current at inside-delta circuit				
• 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 negative tolerance of the operating voltage at -15 %	-	43.3 A			
operating voltage 200 600 V • rated value 200 600 V • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage at 10 % relative negative tolerance of the operating voltage at -15 %	• at 50 °C rated value	39 A			
 rated value at inside-delta circuit rated value 200 600 V 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	• at 60 °C rated value				
 rated value at inside-delta circuit rated value 200 600 V 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	operating voltage				
• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %		200 600 V			
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %					
relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %					
relative negative tolerance of the operating voltage at -15 %		10 %			

 operating power for 3-phase motors at 230 V at 40 °C rated value 	
 at 230 V at 40 °C rated value 	
	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 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 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	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 	11.5 A
 at rotary coding switch on switch position 2 	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
 at rotary coding switch on switch position 4 	14.2 A
 at rotary coding switch on switch position 5 	15.1 A
 at rotary coding switch on switch position 6 	16 A
 at rotary coding switch on switch position 7 	16.9 A
 at rotary coding switch on switch position 8 	17.8 A
 at rotary coding switch on switch position 9 	18.7 A
 at rotary coding switch on switch position 10 	19.6 A
 at rotary coding switch on switch position 11 	20.5 A
 at rotary coding switch on switch position 12 	21.4 A
 at rotary coding switch on switch position 13 	22.3 A
 at rotary coding switch on switch position 14 	23.2 A
 at rotary coding switch on switch position 15 	24.1 A
 at rotary coding switch on switch position 16 	25 A
• minimum	11.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	19.9 A
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
• for inside-delta circuit at rotary coding switch on switch position 4	24.6 A
for inside-delta circuit at rotary coding switch on switch position 5	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on 	29.3 A 30.8 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	32.4 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	33.9 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	35.5 A
 switch position 11 for inside-delta circuit at rotary coding switch on 	37.1 A
switch position 12 • for inside-delta circuit at rotary coding switch on	38.6 A
switch position 13 • for inside-delta circuit at rotary coding switch on	40.2 A
switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15	41.7 A

 for inside-delta circuit at rotary coding switch on 	43.3 A			
switch position 16				
at inside-delta circuit minimum	19.9 A			
minimum load [%]	15 %; Relative to smallest settable le			
power loss [W] for rated value of the current at AC				
 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				
	40			
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 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	0.17 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				
number of digital inputs	1			
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick			
number of digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	0			
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	1A			
Installation/ mounting/ dimensions				
mounting position	+/- 10° rotation possible and can be tilted forward or backward on			
mounting position	vertical mounting surface			
fastening method	screw fixing			
height	275 mm			
width	170 mm			
depth	152 mm			
· · ·				
required spacing with side-by-side mountingforwards	10 mm			

	2			
• backwards	0 mm			
• upwards	100 mm			
 downwards 	75 mm			
at the side	5 mm			
weight without packaging	2.1 kg			
Connections/ Terminals				
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for control circuit 	screw-type terminals			
wire length for thermistor connection				
 with conductor cross-section = 0.5 mm² maximum 	50 m			
 with conductor cross-section = 1.5 mm² maximum 	150 m			
 with conductor cross-section = 2.5 mm² maximum 	250 m			
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 mm²), 2x (2.5 6.0 mm²)			
 at AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)			
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 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
processing				
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at AC maximum 	100 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 terminals 	7 10.3 lbf·in			
Ambient conditions				
	5 000 m: Derating as of 1000 m, see catalog			
installation altitude at height above sea level maximum ambient temperature	5 000 m; Derating as of 1000 m, see catalog			
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			
	mist), 3S2 (sand must not get into the devices), 3M6			
 during storage acc. to IEC 60721 	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	N			
PROFINET standard EtherNet//P	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	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
according to UL				

— usable for High Faults to UL	at 460/480 V according	Siemens type: 3RV2742, kA	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA			
 — usable for Standard Failed inside-delta circuit accord 		Siemens type: 3RV2742,	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA			
 — usable for High Faults delta circuit according to 		Siemens type: 3VA51, m	Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
— usable for Standard Fa	aults at 575/600 V	Siemens type: 3RV2742,	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
 — usable for Standard Failed inside-delta circuit accord 		Siemens type: 3RV2742	, max. 70 A or 3VA51, ma	x. 80 A; lq = 5 kA		
 of the fuse 						
 — usable for Standard Factoring to UL 	aults up to 575/600 V	Type: Class RK5 / K5, m	ax. 100 A; lq = 5 kA			
 usable for High Faults according to UL 	s up to 575/600 V	Type: Class J / L, max. 1	00 A; Iq = 100 kA			
— usable for Standard Factoricuit up to 575/600 V ac		Type: Class RK5 / K5, m	ax. 100 A; Iq = 5 kA			
— usable for High Faults to 575/600 V according to		Type: Class J / L, max. 1	00 A; lq = 100 kA			
operating power [hp] for 3-phase	se motors					
• at 200/208 V at 50 °C rated		5 hp				
 at 220/230 V at 50 °C rated at 220/230 V at 50 °C rated 		7.5 hp				
 at 460/480 V at 50 °C rated 	d value	15 hp				
 at 575/600 V at 50 °C rated 	d value	20 hp	20 hp			
 at 200/208 V at inside-delta value 	a circuit at 50 °C rated	10 hp				
 at 220/230 V at inside-delta value 	a circuit at 50 °C rated	10 hp				
 at 460/480 V at inside-delta value 	a circuit at 50 °C rated	25 hp				
 at 575/600 V at inside-delta value 	a circuit at 50 °C rated	30 hp				
contact rating of auxiliary contacts according to UL R300-B300						
Safety related data						
protection class IP on the front acc. to IEC 60529		IP20				
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front				
electromagnetic compatibility		in accordance with IEC 6	60947-4-2			
Certificates/ approvals						
General Product Approval			EMC	Declaration of Conformity		
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	\$ \$	СПС				
CSA CO	CC UL		RCM	EG-Konf.		
Test Certificates Marine /	Shipping					
Type Test Certific-			AT A A A A A A A A A A A A A A A A A A	STREPHED ARD		
ates/Test Report		Lloyds	(33)			
		Negister	C Star	DNVGL		
A	BS BUREA	LRS	PRS	Devolution		
	VERITA					
other						
Confirmation						
Commation						

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=3RW5215-1TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-1TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

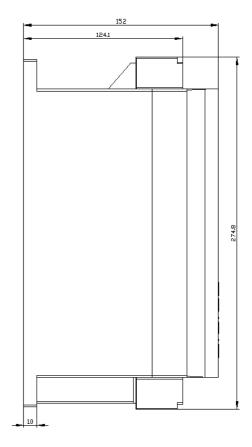
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15/char

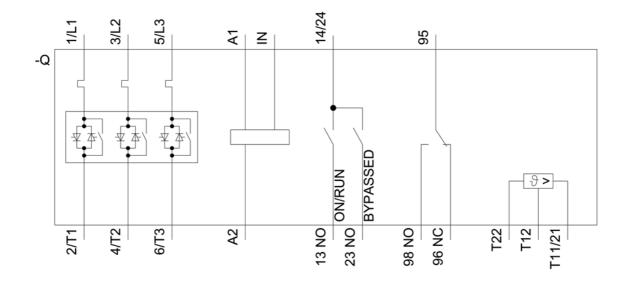
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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