SIEMENS

Data sheet

3RW5217-3TC14



SIRIUS soft starter 200-480 V 38 A, 110-250 V AC spring-type 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 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1. Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1820-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; 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

The class CLASS 10A (default) / 10E / 20E; acc. to IEC 60947.4-2 boffering fine in the event of power failure 100 ms is the minic current direcuit 100 ms is the minic current direcuit 100 ms is the minic current direcuit 00 ms is the minic current direcuit 00 ms is the direcuit </th <th>number of controlled phases</th> <th>3</th>	number of controlled phases	3
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• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 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 value52.8 Aoperating voltage• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %	-	65.8 A
operating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 200 480 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 50 °C rated value	58 A
 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 10 % relative negative tolerance of the operating voltage at -15 % 	• at 60 °C rated value	52.8 A
 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 10 % relative negative tolerance of the operating voltage at -15 % 	operating voltage	
• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %		200 480 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 %	 at inside-delta circuit rated value 	
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 %
		-15 %

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 	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	18.5 kW
 at 400 V at 40 °C rated value 	18.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	30 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 	15.5 A
 at rotary coding switch on switch position 2 	17 A
 at rotary coding switch on switch position 3 	18.5 A
 at rotary coding switch on switch position 4 	20 A
 at rotary coding switch on switch position 5 	21.5 A
 at rotary coding switch on switch position 6 	23 A
 at rotary coding switch on switch position 7 	24.5 A
 at rotary coding switch on switch position 8 	26 A
 at rotary coding switch on switch position 9 	27.5 A
 at rotary coding switch on switch position 10 	29 A
 at rotary coding switch on switch position 11 	30.5 A
 at rotary coding switch on switch position 12 	32 A
 at rotary coding switch on switch position 13 	33.5 A
 at rotary coding switch on switch position 14 	35 A
 at rotary coding switch on switch position 15 	36.5 A
 at rotary coding switch on switch position 16 	38 A
minimum	15.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	26.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	29.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	32 A
 for inside-delta circuit at rotary coding switch on switch position 4 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	37.2 A
• for inside-delta circuit at rotary coding switch on switch position 6	39.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on 	42.4 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	45 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	47.6 A 50.2 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	52.8 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	55.4 A
 switch position 12 for inside-delta circuit at rotary coding switch on 	58 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	60.6 A
 switch position 14 for inside-delta circuit at rotary coding switch on 	63.2 A
switch position 15 • for inside-delta circuit at rotary coding switch on	65.8 A
switch position 16	

minimum load [%] 15 power loss [W] for rated value of the current at AC	5.8 A 5 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	J /0, INCIALIVE LU SITIALIEST SELLADIE IE
a at 40 °C after startup	3 W
	2 W
	1 W
power loss [W] at AC at current limitation 350 %	
3 1 1 1	28 W
	26 W 54 W
	04 VV
Control circuit/ Control	
type of voltage of the control supply voltage AC	
control supply voltage at AC	10 050.1/
	10 250 V
	10 250 V
voltage at AC at 50 Hz	5 %
voltage at AC at 50 Hz) %
relative negative tolerance of the control supply -1 voltage at AC at 60 Hz	5 %
relative positive tolerance of the control supply 10 voltage at AC at 60 Hz) %
control supply voltage frequency 50	0 60 Hz
relative negative tolerance of the control supply -10 voltage frequency	0 %
relative positive tolerance of the control supply 10 voltage frequency) %
control supply current in standby mode rated value 30) mA
holding current in bypass operation rated value 75	5 mA
locked-rotor current at close of bypass contact 0.	17 A
maximum	
maximum	2.2 A
supply voltage	2 ms
	aristor
cir	A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature rcuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is of 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 i	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	A
• at DC-13 at 24 V rated value 1	Α
Installation/ mounting/ dimensions	
	ith vertical mounting surface +/-90° rotatable, with vertical mounting urface +/- 22.5° tiltable to the front and back
fastening method sc	crew fixing
height 27	75 mm
width 17	70 mm
depth 15	52 mm
required spacing with side-by-side mounting	
• forwards 10) mm
• backwards 0 r	mm

downwards	75 mm
at the side	5 mm
weight without packaging	2.3 kg
Connections/ Terminals	2.0 Ng
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	spring-loaded 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 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 	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 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
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	5.000 D (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	25 IGO °C: Places cheering deroting at temperatures of 40 °C or
 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	Vee
PROFINET standard EtherNet//P	Yes
EtherNet/IP Medbus BTU	Yes
Modbus RTU Modbus TCP	Yes
Moddus TCP PROFIBUS	Yes
UL/CSA ratings manufacturer's article number	
e of circuit breaker	
 of circuit breaker — usable for Standard Faults at 460/480 V 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Ig = 5 kA
according to UL	oremens type. or v27+2, max. ro A or ovAor, max. r25 A, rq = 5 KA
— usable for High Faults at 460/480 V according	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65
- 0	

to UL			kA			
	Standard Faults at 460/480	V at	Siemens type: 3RV2742, n	nax. 70 A or 3VA51, ma	ax. 125 A; lq = 5 kA	
— usable for	inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL		Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
— usable for	— usable for Standard Faults at 575/600 V according to UL			Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA		
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA				
• of the fuse						
 usable for Standard Faults up to 575/600 V according to UL 		Type: Class RK5 / K5, max. 150 A; lq = 5 kA				
— usable for according to t	High Faults up to 575/600 V JL	,	Type: Class J / L, max. 150 A; Iq = 100 kA			
	Standard Faults at inside-de 75/600 V according to UL	elta	Type: Class RK5 / K5, max. 150 A; lq = 5 kA			
	High Faults at inside-delta c according to UL	ircuit up	Type: Class J / L, max. 150	0 A; Iq = 100 kA		
] for 3-phase motors					
	50 °C rated value		10 hp			
	50 °C rated value		10 hp			
	50 °C rated value		20 hp			
● at 200/208 V at value	inside-delta circuit at 50 °C	rated	15 hp			
value	inside-delta circuit at 50 °C		20 hp			
value	inside-delta circuit at 50 °C		40 hp			
_	ciliary contacts according	to UL	R300-B300			
Safety related data						
	on the front acc. to IEC 605		IP20			
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front				
				in accordance with IEC 60947-4-2		
electromagnetic con	npatibility		in accordance with IEC 609	947-4-2		
	npatibility		in accordance with IEC 609	947-4-2		
electromagnetic con	npatibility s		in accordance with IEC 609	947-4-2 EMC	Declaration of Conformity	
electromagnetic con Certificates/ approval	npatibility s	(H) u	in accordance with IEC 609			
electromagnetic con Certificates/ approval	npatibility s	UL UL	in accordance with IEC 609		Conformity	
electromagnetic con Certificates/ approvals General Product Ap	npatibility s proval		in accordance with IEC 609		Conformity	
electromagnetic com Certificates/ approval General Product Ap	npatibility s proval		EAC		Conformity CEG-Konf.	

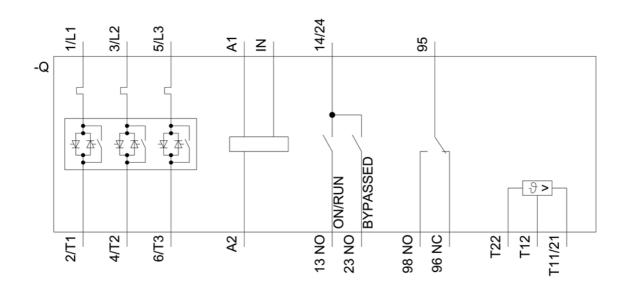
Further information

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=3RW5217-3TC14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-3TC14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-3TC14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5217-3TC14&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-3TC14/char Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-3TC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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



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