SIEMENS

Data sheet

3RW5244-2TC15



SIRIUS soft starter 200-600 V 250 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 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1331-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3336; Type of coordination 2, Iq = 65 kA
Seneral 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

trip class CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 buffering time in the event of power failure 100 ms • 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 600 V • between main and auxility circuit 600 V utilization category acc. to IEC 60947-4-2 AC 53a shock resistance 15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting utilization category acc. to IEC 61946-2 Q product function Yes • amp-down (soft stoip) Yes • adjust function Yes • adjust function Yes • adjust function Yes • atom up (soft straing) Yes • atom up (soft straing) Yes • atom coverload protection Yes • atom cove	number of controlled phones	2
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• bit control circuit 000 ms insulation voltage rated value 600 V degree of pollution 3. acc. to EC 60947-4-2 impuise voltage rated value 6 kV blocking voltage of the thyristor maximum 1600 V service factor 1 service factor 1 • between main and auxiliary circuit 600 V uitization category acc. to EC 60947-42 AC Sal shock resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance Yes ramg-down (soft stor) Yes • rang-up (soft starting) Yes • soft orque Yes • adjustable current limitation Yes • motor vertoad protection Yes • motor vertoad protection Yes furthory protection (hermistor motor protection and electronic • inside-	-	400
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• removable terminal for control circuitYes• torque controlNo• analog outputNo• analog outputNo• over ElectronicsSo No• at 40 °C rated value250 A• at 60 °C rated value220 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value300 600 V• at 60 °C rated value200 600 V• at 60 °C rated value15 %• at side-delta circuit rated value200 600 V• at side-delta circuit rated value15 %	PROFlenergy	,
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• at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 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 inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit15 %		
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 inside-delta circuit 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 %		
• 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 inside-delta circuit 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 %	● at 60 °C rated value	346 A
• at inside-delta circuit rated value 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 inside-delta circuit -15 %		
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 %	 rated value 	
relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 %	 at inside-delta circuit rated value 	200 600 V
relative negative tolerance of the operating voltage at inside-delta circuit		
inside-delta circuit		
relative positive tolerance of the operating voltage at 10 %	inside-delta circuit	
	relative positive tolerance of the operating voltage at	10 %

inside-delta circuit	
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	75 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	132 kW
 at 400 V at 40 °C rated value 	132 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	250 kW
 at 500 V at 40 °C rated value 	160 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	315 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 	100 A
 at rotary coding switch on switch position 2 	110 A
 at rotary coding switch on switch position 3 	120 A
 at rotary coding switch on switch position 4 	130 A
 at rotary coding switch on switch position 5 	140 A
• at rotary coding switch on switch position 6	150 A
at rotary coding switch on switch position 7	160 A
 at rotary coding switch on switch position 8 	170 A
at rotary coding switch on switch position 9	180 A
at rotary coding switch on switch position 10	190 A
at rotary coding switch on switch position 11	200 A
 at rotary coding switch on switch position 12 	210 A
 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 	220 A
 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 	230 A 240 A
 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 	250 A
 at rotary coding switch on switch position 16 minimum 	100 A
adjustable motor current	100 A
 for inside-delta circuit at rotary coding switch on 	173 A
switch position 1	
 for inside-delta circuit at rotary coding switch on switch position 2 	191 A
 for inside-delta circuit at rotary coding switch on switch position 3 	208 A
 for inside-delta circuit at rotary coding switch on switch position 4 	225 A
 for inside-delta circuit at rotary coding switch on switch position 5 	242 A
 for inside-delta circuit at rotary coding switch on switch position 6 	260 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on 	277 A
 for inside-delta circuit at rotary coding switch on switch position 8 	294 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on 	312 A
 for inside-delta circuit at rotary coding switch on switch position 10 	329 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on 	346 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on 	364 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on 	381 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on 	398 A
 for inside-delta circuit at rotary coding switch on switch position 15 	416 A
 for inside-delta circuit at rotary coding switch on 	433 A

switch position 16	
at inside-delta circuit minimum	173 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	87 W
• at 50 °C after startup	78 W
• at 60 °C after startup	72 W
power loss [W] at AC at current limitation 350 %	12 11
• at 40 °C during startup	3 818 W
• at 50 °C during startup	3 188 W
at 60 °C during startup	2 799 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC at 50 Hz	110 250 V
	110 250 V
control supply voltage at AC at 60 Hz relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz	
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	100 mA
locked-rotor current at close of bypass contact maximum	2.2 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	1 A
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	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
 forwards 	10 mm
 backwards 	0 mm
upwards	100 mm

 downwards 	75 mm
at the side	5 mm
weight without packaging	9.9 kg
Connections/ Terminals	,
type of electrical connection	
for main current circuit	busbar connection
 for control circuit 	spring-loaded terminals
width of connection bar maximum	45 mm
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 mm ² maximum	250 m
type of connectable conductor cross-sections	
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm²)
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	000
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
tightening torque	14 - 24 N m
 for main contacts with screw-type terminals for ouviliant and control contacts with screw type 	14 24 N·m
for auxiliary and control contacts with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf·in]	104 040 lbf in
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	124 210 lbf·in 7 10.3 lbf·in
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
 ambient temperature 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	
PROFINET standard	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 according to UL usable for High Faults at 460/480 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA
— usable for Standard Faults at 460/480 V at	Siemens type: 3VA54, max. 600 A; Iq = 18 kA

Inside-della c	virouit according to UI					
— usable for	Fircuit according to UL High Faults at 460/480 According to UL	V at inside-	Siemens type:	3VA54, max. 6	00 A; lq max = 65 kA	A
	Standard Faults at 575	/600 V	Siemens type:	3VA53, max. 4	00 A or 3VA54, max.	. 600 A; Iq = 18 kA
— usable for	Standard Faults at 575 Fircuit according to UL	/600 V at	Siemens type:	3VA54, max. 6	00 A; Iq = 18 kA	
 of the fuse 						
 usable for according to 	Standard Faults up to UL	575/600 V	Type: Class J /	L, max. 800 A;	; lq = 18 kA	
 usable for according to 	High Faults up to 575/6 UL	600 V	Type: Class J /	L, max. 800 A;	; Iq = 100 kA	
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 		Type: Class J / L, max. 800 A; Iq = 18 kA				
	High Faults at inside-d according to UL	elta circuit up	Type: Class J /	L, max. 800 A;	; Iq = 100 kA	
operating power [hp] for 3-phase motors					
• at 200/208 V at	50 °C rated value		60 hp			
• at 220/230 V at	50 °C rated value		75 hp			
	50 °C rated value		150 hp			
	50 °C rated value		200 hp			
		0 00				
value	inside-delta circuit at 5		125 hp			
value	inside-delta circuit at 5		150 hp			
value	inside-delta circuit at 5		300 hp			
value	inside-delta circuit at 5		350 hp			
	xiliary contacts accor	ding to UL	R300-B300			
Safety related data						
		2 00520		cover		
protection class IP of	on the front acc. to IE	- 60529	IP00; IP20 with	COVEI		
	the front acc. to IEC				t from the front with c	cover
	the front acc. to IEC			vertical contac		cover
touch protection on electromagnetic cor	the front acc. to IEC (npatibility		finger-safe, for	vertical contac		cover
touch protection on electromagnetic cor Certificates/ approval	the front acc. to IEC (npatibility s		finger-safe, for	vertical contac		
touch protection on electromagnetic cor	the front acc. to IEC (npatibility s		finger-safe, for	vertical contac		EMC
touch protection on electromagnetic cor Certificates/ approval General Product Ap	the front acc. to IEC (npatibility s pproval	50529	finger-safe, for in accordance	vertical contac with IEC 60947		
touch protection on electromagnetic cor Certificates/ approval	the front acc. to IEC (npatibility s pproval		finger-safe, for in accordance	vertical contac		
touch protection on electromagnetic cor Certificates/ approval General Product Ap	the front acc. to IEC (npatibility s pproval	50529	finger-safe, for in accordance E ates Marine	vertical contac with IEC 60947		
touch protection on electromagnetic cor Certificates/ approval General Product Ap EGE CEA	the front acc. to IEC (npatibility s oproval	50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u>	finger-safe, for in accordance E ates Marine	vertical contac with IEC 60947	-4-2 EAC	
touch protection on electromagnetic cor Certificates/ approval General Product Ap ECEA	the front acc. to IEC (npatibility s oproval	50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u>	finger-safe, for in accordance E ates Marine	vertical contac with IEC 60947	-4-2 EAC	
touch protection on electromagnetic cor Certificates/ approval General Product Ap EGE CEA	the front acc. to IEC (npatibility s oproval	50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u>	finger-safe, for in accordance	vertical contac with IEC 60947	-4-2 EAC	

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5244-2TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2TC15&lang=en

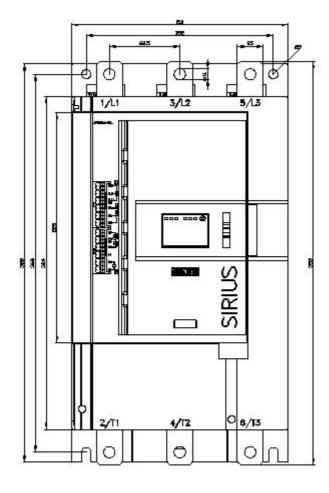
Characteristic: Tripping characteristics, I²t, Let-through current

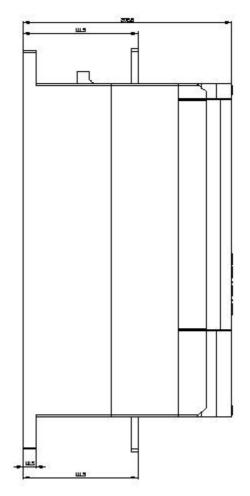
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC15/char

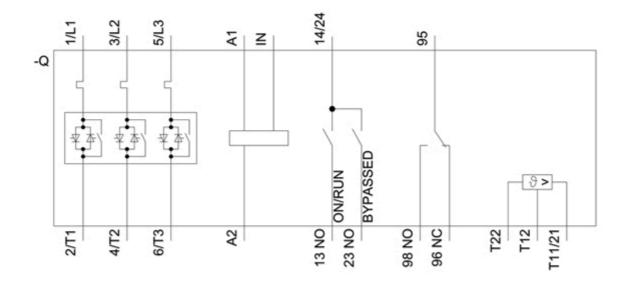
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2TC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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