SIEMENS

Data sheet

3RW5243-6TC15



SIRIUS soft starter 200-600 V 210 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 	3VA2325-7MN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2440-7MN32-0AA0: Type of coordination 1. lq = 65 kA. CLASS 10</u>
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2440-7MN32-0AA0; 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
\bullet 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 	<u>3NE1230-2; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3333; 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

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	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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	13.02.2010 00.00.00
ramp-up (soft starting)	Yes
 ramp-up (soft starting) ramp-down (soft stop) 	Yes
Soft Torque	Yes
adjustable current limitation	Yes
-	Yes
pump ramp down intrinsis dowing protoction	Yes
intrinsic device protection	
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
 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 	No
Power Electronics	
operational current	
• at 40 °C rated value	210 A
• at 50 °C rated value	186 A
• at 60 °C rated value	170 A
operational current at inside-delta circuit	
 at 40 °C rated value 	364 A
• at 50 °C rated value	322 A
• at 60 °C rated value	294 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	-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 	55 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	110 kW
 at 400 V at 40 °C rated value 	110 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	200 kW
 at 500 V at 40 °C rated value 	132 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	250 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 	90 A
 at rotary coding switch on switch position 2 	98 A
 at rotary coding switch on switch position 3 	106 A
 at rotary coding switch on switch position 4 	114 A
 at rotary coding switch on switch position 5 	122 A
 at rotary coding switch on switch position 6 	130 A
 at rotary coding switch on switch position 7 	138 A
 at rotary coding switch on switch position 8 	146 A
 at rotary coding switch on switch position 9 	154 A
 at rotary coding switch on switch position 10 	162 A
 at rotary coding switch on switch position 11 	170 A
 at rotary coding switch on switch position 12 	178 A
 at rotary coding switch on switch position 13 	186 A
 at rotary coding switch on switch position 14 	194 A
 at rotary coding switch on switch position 15 	202 A
 at rotary coding switch on switch position 16 	210 A
• minimum	90 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	156 A
 for inside-delta circuit at rotary coding switch on switch position 2 	170 A
 for inside-delta circuit at rotary coding switch on switch position 3 	184 A
 for inside-delta circuit at rotary coding switch on switch position 4 	197 A
• for inside-delta circuit at rotary coding switch on switch position 5	211 A
 for inside-delta circuit at rotary coding switch on switch position 6 	225 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside data circuit at rotary coding switch on 	239 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	253 A 267 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	281 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	294 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	308 A
 for inside delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	322 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	336 A
 switch position 14 for inside-delta circuit at rotary coding switch on 	350 A
switch position 15	

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mounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backfastening methodscrew fixingheight393 mm		1 A
fastening method screw fixing height 393 mm	Installation/ mounting/ dimensions	
height 393 mm	mounting position	
height 393 mm	fastening method	screw fixing
	width	210 mm
depth 203 mm		
•	•	
required spacing with side-by-side mounting		40
• forwards 10 mm	• Torwards	TU 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	screw-type terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm ² maximum	50 m
• with conductor cross-section = 1.5 mm ² 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 mm ²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 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 	14 24 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 	124 210 lbf·in
 for auxiliary and control contacts with screw-type terminals 	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
 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	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 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
according to UL — usable for High Faults at 460/480 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65

— usable for	Standard Faults at 460/4	180 V at	Siemens type: 3VA53, ma	ax. 400 A or 3VA54, m	ax. 600 A; Iq = 10 kA
	ircuit according to UL		,		
	High Faults at 460/480 V ccording to UL	/ at inside-	Siemens type: 3VA53, ma kA	ax. 400 A or 3VA54, m	ax. 600 A; lq max = 65
— usable for according to l	Standard Faults at 575/6 JL	600 V	Siemens type: 3VA53, ma	ax. 400 A or 3VA54, m	ax. 600 A; lq = 10 kA
	Standard Faults at 575/6 ircuit according to UL	600 V at	Siemens type: 3VA53, ma	ax. 400 A or 3VA54, m	ax. 600 A; lq = 10 kA
 of the fuse 					
 — usable for according to l 	Standard Faults up to 57 JL	75/600 V	Type: Class J / L, max. 70	00 A; lq = 10 kA	
 — usable for according to l 	High Faults up to 575/60 JL	00 V	Type: Class J / L, max. 70	00 A; lq = 100 kA	
	Standard Faults at inside 75/600 V according to U		Type: Class J / L, max. 70	00 A; Iq = 10 kA	
	High Faults at inside-dele according to UL	ta circuit up	Type: Class J / L, max. 70	00 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		60 hp		
• at 460/480 V at	50 °C rated value		150 hp		
• at 575/600 V at	50 °C rated value		150 hp		
• at 200/208 V at value	inside-delta circuit at 50	°C rated	100 hp		
• at 220/230 V at value	inside-delta circuit at 50	°C rated	125 hp		
1 400/400 1/ 1		°C roted			
• at 460/480 V at value	inside-delta circuit at 50	Crated	250 hp		
value	inside-delta circuit at 50		250 hp 300 hp		
value • at 575/600 V at value		°C rated			
value • at 575/600 V at value	inside-delta circuit at 50	°C rated	300 hp		
value • at 575/600 V at value contact rating of aux Safety related data	inside-delta circuit at 50	°C rated	300 hp		
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of	inside-delta circuit at 50 (iliary contacts accordi	°C rated ing to UL 60529	300 hp R300-B300	ntact from the front wit	h cover
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover		h cover
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co		h cover
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co		h cover Declaration of Conformity
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of Conformity
value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical co	0947-4-2	Declaration of Conformity
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value • at 575/600 V at value contact rating of aux Safety related data protection class IP of touch protection on electromagnetic con Certificates/ approvals General Product Ap Test Certificates Type Test Certific-	inside-delta circuit at 50 ciliary contacts accordi on the front acc. to IEC the front acc. to IEC 60 npatibility s proval	°C rated ing to UL 60529	300 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical cor in accordance with IEC 60 EEREC	0947-4-2	Declaration of Conformity

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=3RW5243-6TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-6TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5243-6TC15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

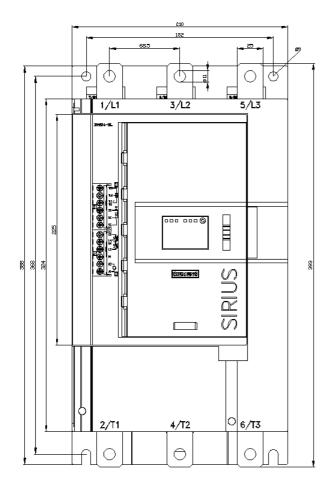
https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC15/char

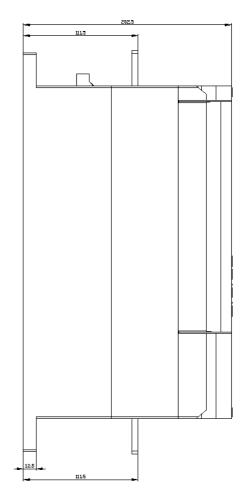
Characteristic: Installation altitude

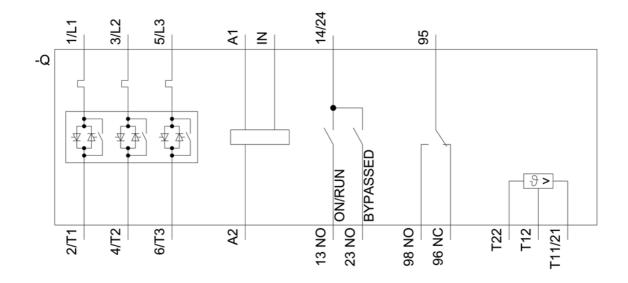
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-6TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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