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				
insulation voltage rated value	100 ms 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) 				
Soft Torque	Yes			
adjustable current limitation	Yes 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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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			

	r Standard Faults at 460/4 circuit according to UL	180 V at	Siemens type: 3VA53, m	nax. 400 A or 3VA54, m	nax. 600 A; Iq = 10 kA	
	r High Faults at 460/480 \ according to UL	/ at inside-	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA			
	— usable for Standard Faults at 575/600 V			nax. 400 A or 3VA54, m	nax. 600 A; Iq = 10 kA	
	r Standard Faults at 575/6 circuit according to UL	600 V at	Siemens type: 3VA53, m	nax. 400 A or 3VA54, m	nax. 600 A; Iq = 10 kA	
 of the fuse 						
 — usable for according to 	r Standard Faults up to 57 UL	75/600 V	Type: Class J / L, max. 7	700 A; lq = 10 kA		
 — usable for according to 	r High Faults up to 575/60 UL	00 V	Type: Class J / L, max. 7	′00 A; lq = 100 kA		
	⁻ Standard Faults at inside 575/600 V according to U		Type: Class J / L, max. 7	'00 A; lq = 10 kA		
	r High Faults at inside-del according to UL	ta circuit up	Type: Class J / L, max. 7	'00 A; lq = 100 kA		
operating power [h	p] for 3-phase motors					
• at 200/208 V a	t 50 °C rated value		60 hp			
● at 220/230 V a	t 50 °C rated value		60 hp			
• at 460/480 V a	t 50 °C rated value		150 hp			
• at 575/600 V a	t 50 °C rated value		150 hp			
● at 200/208 V a value	 at 200/208 V at inside-delta circuit at 50 °C rated value 					
● at 220/230 V a value	 at 220/230 V at inside-delta circuit at 50 °C rated value 					
● at 460/480 V a value	t inside-delta circuit at 50	°C rated	250 hp			
● at 575/600 V a value	t inside-delta circuit at 50	°C rated	300 hp			
contact rating of auxiliary contacts according to UL			R300-B300			
Safety related data						
protection class IP on the front acc. to IEC 60529		IP00; IP20 with cover				
touch protection on	touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with cover			
electromagnetic co	electromagnetic compatibility		in accordance with IEC 60947-4-2			
Certificates/ approva	ls					
General Product A	pproval			EMC	Declaration of Conformity	
(T)	(m)	Ē	гпг	A	"	
QP	(m)	(VL)	FHI	<u>(</u>)		
CSA	ccc	UL	LIIL	RCM	EG-Konf.	
Test Certificates	Marine / Shipping					
Turne Treet Oratifie	-	AN VA		-		
<u>Type Test Certific-</u> ates/Test Report	Same a	14.1	Lloyd's	(Sa)	And and a start of the start of	
	1. 200		Kegister		DNV-GL	
	ABS	BUREAU	LRS	PRS	DAVOLICONON	
		VERITAS				
other						

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

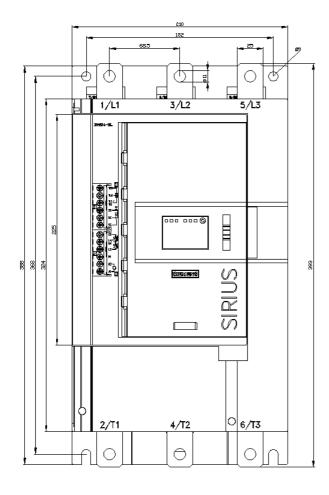
https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC15/char

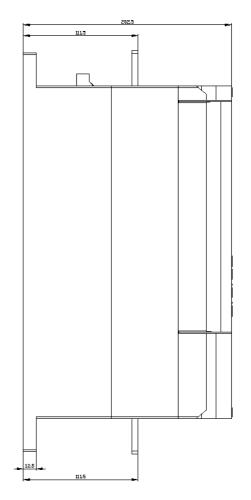
Characteristic: Installation altitude

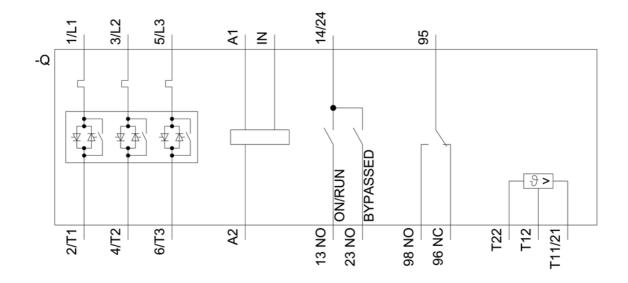
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-6TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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