SIEMENS

Data sheet 3RW5243-6TC15



SIRIUS soft starter 200-600 V 210 A, 110-250 V AC Screw terminals Thermistor input

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

3NE1230-2; Type of coordination 2, Iq = 65 kA

3NE3333; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

 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 according to IEC 60947-4-2	AC 53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	02/15/2018				
product function					
ramp-up (soft starting)	Yes				
ramp-down (soft stop)	Yes				
Soft Torque	Yes				
 adjustable current limitation 	Yes				
 pump ramp down 	Yes				
 intrinsic device protection 	Yes				
 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				
via software configurablePROFlenergy	Yes Yes; in connection with the PROFINET Standard communication module				
via software configurablePROFlenergyfirmware update	Yes Yes; in connection with the PROFINET Standard communication				
 via software configurable PROFlenergy firmware update removable terminal for control circuit 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value 	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No				
 via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A				
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via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V				
via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V				
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via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V -15 % 10 %				
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via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operating voltage at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 210 A 186 A 170 A 364 A 322 A 294 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %				

• 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	50 Hz 60 Hz				
relative negative tolerance of the operating frequency	-10 %				
relative positive tolerance of the operating frequency	10 %				
adjustable motor current	10 70				
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	96 A 106 A				
at rotary coding switch on switch position 4	106 A 114 A				
at rotary coding switch on switch position 5	114 A 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	138 A 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 	239 A				
 for inside-delta circuit at rotary coding switch on switch position 8 	253 A				
 for inside-delta circuit at rotary coding switch on switch position 9 	267 A				
for inside-delta circuit at rotary coding switch on switch position 10	281 A				
for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on	294 A 308 A				
 for inside-delta circuit at rotary coding switch on switch position 12 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 • for inside-delta circuit at rotary coding switch on	364 A				
switch position 16 • at inside-delta circuit minimum	156 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	75 W				
at 50 °C after startup	68 W				
• at 60 °C after startup	63 W				
power loss [W] at AC at current limitation 350 %					
 at 40 °C during startup 	3 562 W				
 at 50 °C during startup 	2 979 W				
at 60 °C during startup	2 617 W				
Control circuit/ Control					

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	100 mA			
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 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	screw-type 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 mm² 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	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			
wire length			
 between soft starter and motor maximum 			
 at the digital inputs at AC maximum 			
tightening torque			
 for main contacts with screw-type terminals 			
 for auxiliary and control contacts with screw-type terminals 			
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 			
 for auxiliary and control contacts with screw-type terminals 			
Ambient conditions			
installation altitude at height above sea level maximum			
ambient temperature			
during operation			
during storage and transport			
environmental category			

1x (20 ... 12), 2x (20 ... 14)

800 m 100 m

14 ... 24 N·m 0.8 ... 1.2 N·m

[lbf·in]

124 210 lbf·in 7 ... 10.3 lbf·in

- ion
- e and transport

environmental category

- during operation according to IEC 60721
- during storage according to IEC 60721
- during transport according to IEC 60721

EMC emitted interference

5 000 m; Derating as of 1000 m, see catalog

-25 ... +60 °C; Please observe derating at temperatures of 40 °C or above

-40 ... +80 °C

Yes

Yes

Yes

Yes

Yes

3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4

2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)

acc. to IEC 60947-4-2: Class A

Communication/ Protocol

	communication	module	is	supported
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- PROFINET standard
- EtherNet/IP
- Modbus RTU
- Modbus TCP
- PROFIBUS

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 to UL
- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL
- usable for High Faults at 460/480 V at insidedelta circuit according to UL
- usable for Standard Faults at 575/600 V according to UL
- usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

- usable for Standard Faults up to 575/600 V according to UL
- usable for High Faults up to 575/600 V according to UL
- usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL
- usable for High Faults at inside-delta circuit up to 575/600 V according to UL

operating power [hp] for 3-phase motors

- at 200/208 V at 50 °C rated value
- at 220/230 V at 50 °C rated value
- at 460/480 V at 50 °C rated value
- at 575/600 V at 50 °C rated value
- at 200/208 V at inside-delta circuit at 50 °C rated value
- at 220/230 V at inside-delta circuit at 50 °C rated value

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 100 kA

Type: Class J / L, max. 700 A; Iq = 10 kA

Type: Class J / L, max. 700 A; Iq = 100 kA

60 hp

60 hp

150 hp

150 hp

100 hp

125 hp

• at 460/480 V at inside-delta circuit at 50 °C rated

• at 575/600 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

250 hp

300 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover

in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

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

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

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, I^2t , Let-through current

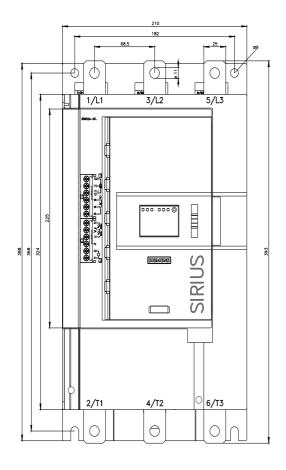
https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC15/char

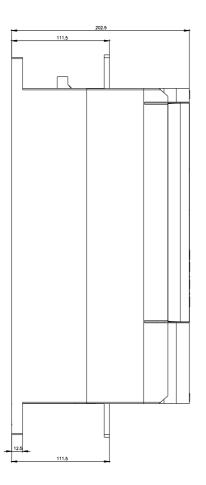
Characteristic: Installation altitude

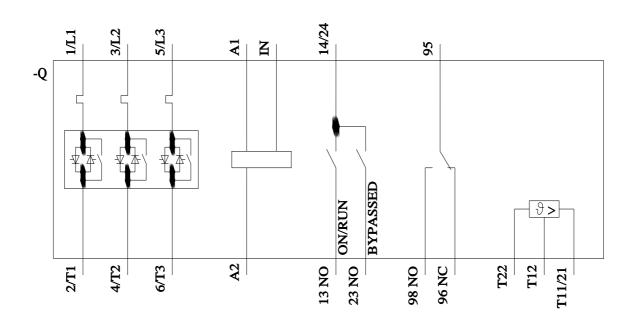
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5243-6TC15\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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