SIEMENS

product brand name

Data sheet 3RW5243-2AC15

SIRIUS



SIRIUS soft starter 200-600 V 210 A, 110-250 V AC spring-type terminals Analog output

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 	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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 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
 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 	3NE1230-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3333; Type of coordination 2, Iq = 65 kA
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

product feature integrated bypass contact system

Yes

Yes

number of centralled phases	3
number of controlled phases	
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	C00 V
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	Voc
• 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; Electronic motor overload protection
 evaluation of thermistor motor protection 	No
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	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
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	10 %
inside-delta circuit	10 /0
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 	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
for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on	308 A 322 A
for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on	336 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	350 A
switch position 15	

switch position 16 • at inside-delta circuit minimum minimum load [½] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C defer startup • at 60 °C during startup •		
a it inside-defla circuit minimum minimum (No) power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after	 for inside-delta circuit at rotary coding switch on 	364 A
minimum load [%] power loss [W] for rated value of the current at AC * at 40 °C after startup * at 50 °C after startup * at 50 °C after startup * at 50 °C after startup * at 60 °C during startup * at	switch position 16	
power loss [W] for rated value of the current at AC	at inside-delta circuit minimum	156 A
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number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • 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 required spacing with side-by-side mounting		1
number of digital outputs ● not parameterizable digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs ■ at AC-15 at 250 V rated value ■ at DC-13 at 24 V rated value 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 required spacing with side-by-side mounting		
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digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 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 height width 210 mm depth required spacing with side-by-side mounting	5 .	
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● at DC-13 at 24 V rated value 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 required spacing with side-by-side mounting		0.4
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 required spacing with side-by-side mounting		
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	at DC-13 at 24 V rated value	1 A
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	Installation/ mounting/ dimensions	
height393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting	mounting position	
height393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting	fastening method	screw fixing
width 210 mm depth 203 mm required spacing with side-by-side mounting		
depth 203 mm required spacing with side-by-side mounting		
required spacing with side-by-side mounting		
	_ •	200 111111
■ IUIWalus		10 mm
	• IOIWards	10 111111

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
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	
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 during storage 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 	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; Iq max = 65 kA
 usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA

- usable for High Faults at 460/480 V at inside-Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA inside-delta circuit according to UL • of the fuse - usable for Standard Faults up to 575/600 V Type: Class J / L, max. 700 A; Iq = 10 kA according to UL - usable for High Faults up to 575/600 V Type: Class J / L, max. 700 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 700 A; Iq = 10 kA circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 700 A; Iq = 100 kA to 575/600 V according to UL 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 inside-delta circuit at 50 °C rated 100 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 125 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 250 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 300 hp value R300-B300 contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











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=3RW5243-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-2AC15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-2AC15

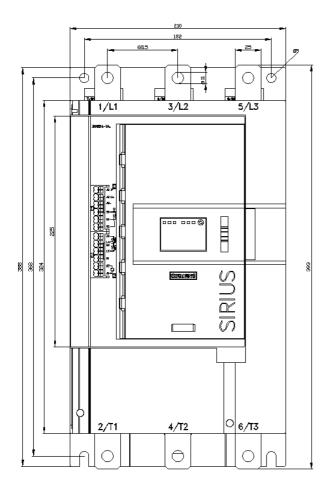
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-2AC15/char

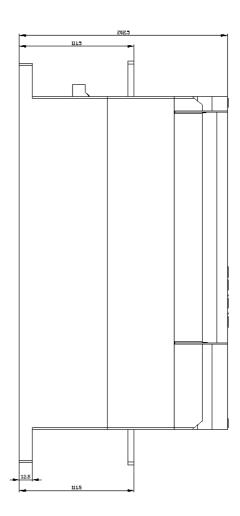
Characteristic: Installation altitude

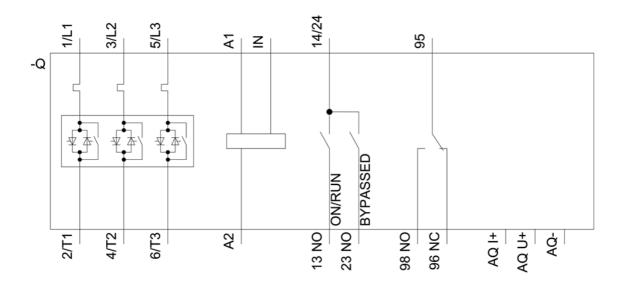
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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