SIEMENS

Data sheet

3RW5243-2AC15



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

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 	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
\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 	<u>3NE3333; Type of coordination 2, Iq = 65 kA</u>

usable up to 690 V

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
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	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
 is supported 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

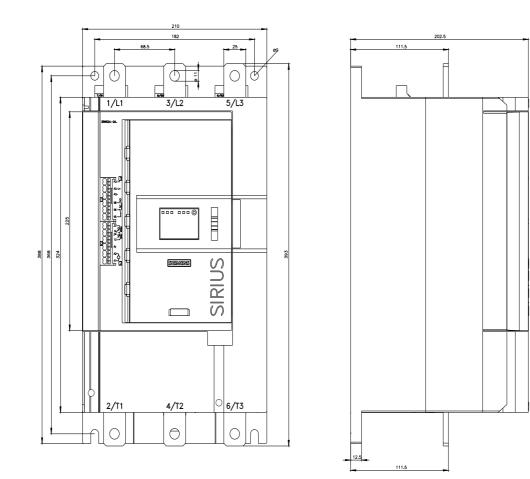
insulation voltage rated volve	600 \/				
insulation voltage rated value	600 V				
degree of pollution	3, acc. to IEC 60947-4-2 6 kV				
impulse voltage rated value					
blocking voltage of the thyristor maximum	1 600 V 1				
service factor					
surge voltage resistance rated value	6 kV				
maximum permissible voltage for protective separation					
between main and auxiliary circuit					
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; 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	200 600 \/				
rated value a st incide delta circuit rated value	200 600 V				
at inside-delta circuit rated value	200 600 \/				
relative negative tolerance of the operating voltage	200 600 V				
rolative positive telerance of the energing veltage	-15 %				
relative positive tolerance of the operating voltage	-15 % 10 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	-15 %				
relative negative tolerance of the operating voltage at	-15 % 10 %				
relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at	-15 % 10 % -15 %				
relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	-15 % 10 % -15 %				
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	-15 % 10 % -15 % 10 %				
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	-15 % 10 % -15 % 10 % 55 kW				
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	-15 % 10 % -15 % 10 % 55 kW 110 kW				
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 400 V at 40 °C rated value	-15 % 10 % -15 % 10 % 55 kW 110 kW 110 kW				

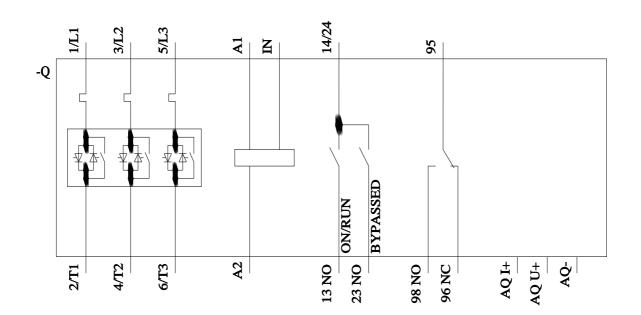
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	90 A
 at rotary coding switch 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
djustable motor current	50/A
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 for inside-delta circuit at rotary coding switch on switch 	253 A 267 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	281 A
 for inside delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	294 A
position 11 • for inside-delta circuit at rotary coding switch on switch	308 A
 position 12 for inside-delta circuit at rotary coding switch on switch 	322 A
 position 13 for inside-delta circuit at rotary coding switch on switch position 14 	336 A
 for inside-delta circuit at rotary coding switch on switch position 15 	350 A
 for inside-delta circuit at rotary coding switch on switch position 16 	364 A
 at inside-delta circuit minimum 	156 A
ninimum load [%]	15 %; Relative to smallest settable le
ower 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 by closing the bypass contacts 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 digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	1			
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			
borwards backwards	0 mm			
packwards upwards	100 mm			
downwards	75 mm			
adomnwards at the side	5 mm			
• at the side weight without packaging	9.9 kg			
Connections/ Terminals				
type of electrical connection				
type of electrical connection • for main current circuit	busbar connection			
for main current circuit	busbar connection spring-loaded terminals 45 mm			
for main current circuit for control circuit	spring-loaded terminals			
for main current circuit for control circuit width of connection bar maximum	spring-loaded terminals			
for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections	spring-loaded terminals 45 mm 2x (50 240 mm²)			
for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded	spring-loaded terminals 45 mm			
for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded	spring-loaded terminals 45 mm 2x (50 240 mm²)			
for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	spring-loaded terminals 45 mm 2x (50 240 mm ²) 2x (70 240 mm ²)			

 for 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 	0.8 1.2 N·m		
terminals			
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			
	5,000 m; Derating as of 1000 m, see estalog		
installation altitude at height above sea level maximumambient temperature	5 000 m; Derating as of 1000 m, see catalog		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
	-20 +80 °C		
during storage and transport	-40 +60 C		
 environmental category during operation according 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 according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
 during transport according 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		
	Yes		
PROFIBUS UL/CSA ratings manufacturer's article number	Yes		
UL/CSA ratings	Yes		
UL/CSA ratings manufacturer's article number	Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA		
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according			
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; lq = 10 kA		
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-	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 10 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA		
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