SIEMENS

Data sheet

3RW5224-1AC15



SIRIUS soft starter 200-600 V 47 A, 110-250 V AC Screw 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 	3RV2032-4JA10: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10: Type of coordination 1. Iq = 65 kA. CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1021-2; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>
eneral 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	02000 100 (uciault) / 102 / 202, acc. to 120 00347-4-2
for main current circuit	100 ms
for control circuit	100 ms
	600 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	000.17
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	Ver
• 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
	No
torque control analog output	NO Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 analog output 	HMI)
Power Electronics	
operational current	
at 40 °C rated value	47 A
• at 50 °C rated value	42 A
at 60 °C rated value	36 A
operational current at inside-delta circuit	
at 40 °C rated value	81.4 A
at 50 °C rated value	72 A
at 60 °C rated value	62.7 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 negative 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 	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	22 kW
 at 400 V at 40 °C rated value 	22 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	45 kW
 at 500 V at 40 °C rated value 	30 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	45 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 	20 A
 at rotary coding switch on switch position 2 	21.8 A
 at rotary coding switch on switch position 3 	23.6 A
 at rotary coding switch on switch position 4 	25.4 A
 at rotary coding switch on switch position 5 	27.2 A
 at rotary coding switch on switch position 6 	29 A
 at rotary coding switch on switch position 7 	30.8 A
 at rotary coding switch on switch position 8 	32.6 A
 at rotary coding switch on switch position 9 	34.4 A
 at rotary coding switch on switch position 10 	36.2 A
 at rotary coding switch on switch position 11 	38 A
 at rotary coding switch on switch position 12 	39.8 A
 at rotary coding switch on switch position 13 	41.6 A
 at rotary coding switch on switch position 14 	43.4 A
• at rotary coding switch on switch position 15	45.2 A
• at rotary coding switch on switch position 16	47 A
• minimum	20 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 2 	37.8 A
 for inside-delta circuit at rotary coding switch on switch position 3 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 4 	44 A
 for inside-delta circuit at rotary coding switch on switch position 5 	47.1 A
• for inside-delta circuit at rotary coding switch on switch position 6	50.2 A
 for inside-delta circuit at rotary coding switch on switch position 7 	53.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	56.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on 	59.6 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	62.7 A 65.8 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	68.9 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	72.1 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	75.2 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	78.3 A
switch position 15	

 for inside-delta circuit at rotary coding switch on 	81.4 A
switch position 16	
at inside-delta circuit minimum	34.6 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 	26 W
 at 50 °C after startup 	24 W
 at 60 °C after startup 	23 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	606 W
 at 50 °C during startup 	522 W
 at 60 °C during startup 	438 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	-15 %
voltage at AC at 50 Hz	
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	75 mA
locked-rotor current at close of bypass contact maximum	2.5 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 inputs for thermistor connection	0
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	1A
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	306 mm
width	185 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 5.2 kg
weight without packaging Connections/ Terminals	5.2 Kg
 type of electrical connection for main current circuit 	box terminal
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
 at AWG cables for main contacts for box terminal using the front clamping point 	1x (10 2/0)
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)
• at AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)
for main contacts for box terminal using both clamping points solid	2x (2.5 16 mm ²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 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 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	222
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 	4.5 6 N·m
 for auxiliary and control contacts with screw-type terminals 	4.5 6 N·m 0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	40 53 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 2/2, 2/1, 2/5, 1, 2/4, 2 (max, fall height 0.3 m) EMC emitted interference acc. to IEC 60947.4-2: Class A Communication Module is supported • etherNewIP • IRROFINET Standard Yes • Modbus RTU Yes • Of circuit breaker -	EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS JL/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 at inside-delta circuit 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 inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL	acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA
communication module is supported Yes • RPOFINET standard Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus RTU Yes • usable for Standard Faults at 460/480 V at inside-dela cricuit according to UL Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA - usable for Standard Faults at 55/600 V according to UL Siemens type: 3VA51, max. 70 A or 3VA51, max. 90 A; lq = 5 kA - usable for High Fa	communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS JL/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 inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL	Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA
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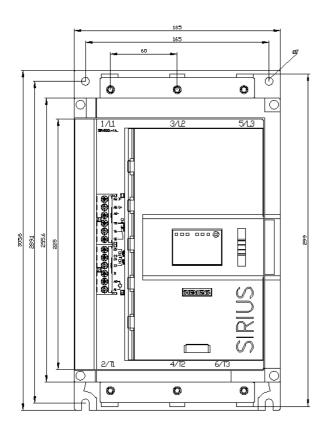
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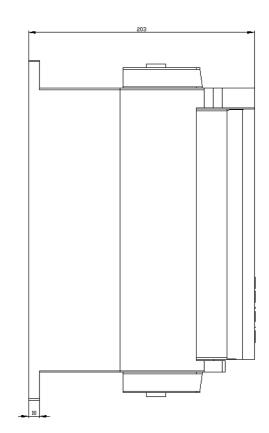
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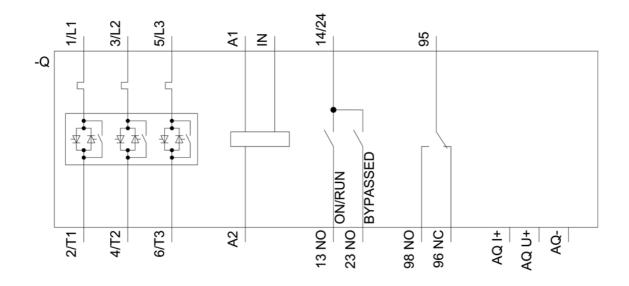
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