SIEMENS

Data sheet

3RW5224-3AC14



SIRIUS soft starter 200-480 V 47 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 	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 	3NA3824-6; Type of coordination 1, Iq = 65 kA
• 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>
Seneral 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	

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

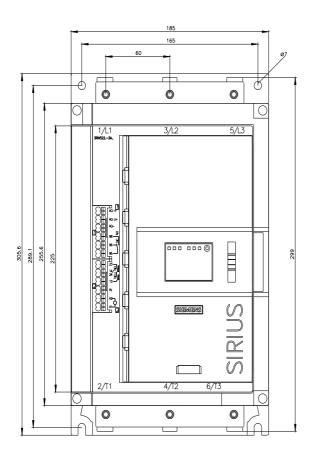
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary 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; 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 Power Electronics	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
operational current	
• at 40 °C rated value	47 A
• at 50 °C rated value	47 A 41.6 A
• at 60 °C rated value	36.2 A
operational current at inside-delta circuit	30.2 A
• 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	200 480 V
at inside-delta circuit rated value	200 480 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	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
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz

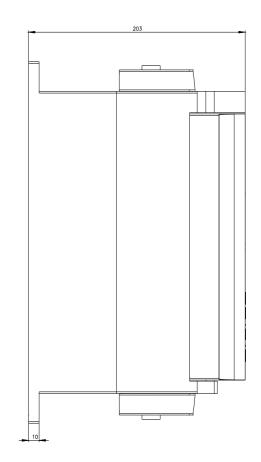
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position 6	position 5	
position 7	position 6	
position 89.6 r• for inside-delta circuit at rotary coding switch on switch position 959.6 A• for inside-delta circuit at rotary coding switch on switch position 1162.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit minimum34.6 A• for inside-delta circuit minimum24.6 W• at 10 °C after startup • at 60 °C after startup26 W• at 40 °C after startup23 W• at 40 °C after startup606 W• at 40 °C during startup602 W• at 60 °C during startup438 W• at 60 °C during startup438 W• at 60 °C during startup438 W	position 7	
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 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on 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 at 50 °C after startup at 60 °C during startup at 40 °C during startup 606 W at 40 °C during startup 522 W at 60 °C during startup 438 W 	 for inside-delta circuit at rotary coding switch on switch 	75.2 A
for inside-delta circuit at rotary coding switch on switch position 1681.4 Aat inside-delta circuit minimum34.6 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC26 We at 40 °C after startup26 We at 50 °C after startup24 We at 60 °C after startup23 Wpower loss [W] at AC at current limitation 350 %606 We at 40 °C during startup606 We at 60 °C during startup522 We at 60 °C during startup438 W	• for inside-delta circuit at rotary coding switch on switch	78.3 A
minimum load [%] 15 %; Relative to smallest settable le power loss [W] for rated value of the current at AC 26 W • 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 % 606 W • at 40 °C during startup 606 W • at 60 °C during startup 522 W • at 60 °C during startup 438 W		81.4 A
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• 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 %	minimum load [%]	15 %; Relative to smallest settable le
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	● at 60 °C after startup	23 W
at 50 °C during startup at 60 °C during startup 438 W ontrol circuit/ Control		
at 60 °C during startup 438 W control circuit/ Control		
control circuit/ Control		
		438 W
type of voltage of the control supply voltage AC	control circuit/ Control	
	type of voltage of the control supply voltage	AC

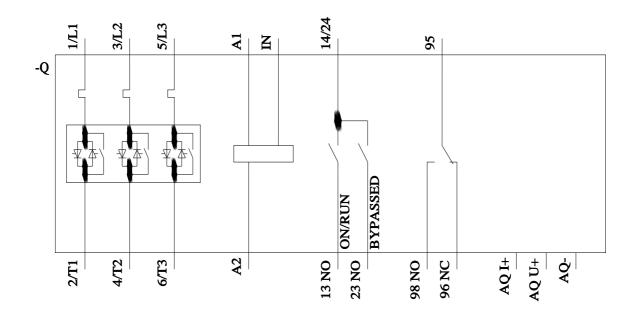
control supply voltage at AC		
● at 50 Hz	110 250 V	
• at 60 Hz	110 250 V	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %	
relative negative tolerance of the control supply voltage at AC at 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	75 mA	
inrush current by closing the bypass contacts 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 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	
weight without packaging	5.2 kg	
Connections/ Terminals		
type of electrical connection		
• for main current circuit	box terminal	
for control circuit	spring-loaded 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)	
clamping point mery stranded with core end processing		
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)	
 for main contacts for box terminal using the front 		

the back clamping point		
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)	
 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 	2x (0.25 1.5 mm²)	
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)	
 for AWG cables for control circuit solid 	2x (24 16)	
 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	4.5 6 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	40 53 lbf-in	
for auxiliary and control contacts with screw-type terminals	7 10.3 lbf-in	
Ambient conditions	5 000 mi Deveting on of 4000 m and estalor	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog	
ambient temperatureduring 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 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	
UL/CSA ratings		
manufacturer's article number • of circuit breaker		
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA	
— usable for Standard Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA51, max. 90 A; Iq = 5 kA	
 usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA	
 — usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA	
 — usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 90 A; lq = 5 kA	
• of the fuse		
— usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 175 A; lq = 5 kA	
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 175 A; lq = 100 kA	

 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 		
C C	Type: Class RK5 / K5, max. 175 A; lq = 5	kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 175 A; lq = 100 k	A
operating power [hp] for 3-phase motors	-	
at 200/208 V at 50 °C rated value	10 hp	
 at 220/230 V at 50 °C rated value 	10 hp	
• at 460/480 V at 50 °C rated value	30 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value	20 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value	25 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value	50 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data	1000-2000	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the fr	ant with anyor
	in accordance with IEC 60947-4-2	
electromagnetic compatibility	In accordance with IEC 60947-4-2	
Certificates/ approvals		
General Product Approval		EMC
		•
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	<u>ଅ</u>	HI (S)
CSA CCC	UL L	RCM
Declaration of Conformity Test Certifica	tes Marine / Shipping	
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Further information		
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