SIEMENS

Data sheet

3RW5234-2AC05



SIRIUS soft starter 200-600 V 113 A, 24 V AC/DC 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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1225-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3332-0B: 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	
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
	100 ms
for control circuit	100 ms
for control circuit insulation voltage rated value	600 V

impulse veltage rated value	6 k)/
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 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 	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current	
 at 40 °C rated value 	113 A
 at 50 °C rated value 	101 A
• at 60 °C rated value	89 A
operational current at inside-delta circuit	
• at 40 °C rated value	196 A
• at 50 °C rated value	175 A
• at 60 °C rated value	154 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 inside-delta circuit	-15 %
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	30 kW
• at 230 V at inside-delta circuit at 40 °C rated value	55 kW
• at 400 V at 40 °C rated value	55 kW
• at 400 V at inside-delta circuit at 40 °C rated value	110 kW
 at 500 V at 40 °C rated value 	75 kW
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 	75 KW 132 KW
• at 500 V at inside-delta circuit at 40 °C rated value	132 kW

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 	53 A
 at rotary coding switch on switch position 2 	57 A
 at rotary coding switch on switch position 3 	61 A
 at rotary coding switch on switch position 4 	65 A
 at rotary coding switch on switch position 5 	69 A
 at rotary coding switch on switch position 6 	73 A
 at rotary coding switch on switch position 7 	77 A
 at rotary coding switch on switch position 8 	81 A
 at rotary coding switch on switch position 9 	85 A
 at rotary coding switch on switch position 10 	89 A
 at rotary coding switch on switch position 11 	93 A
 at rotary coding switch on switch position 12 	97 A
 at rotary coding switch on switch position 13 	101 A
 at rotary coding switch on switch position 14 	105 A
 at rotary coding switch on switch position 15 	109 A
 at rotary coding switch on switch position 16 	113 A
• minimum	53 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	98.7 A
• for inside-delta circuit at rotary coding switch on switch position 3	106 A
 for inside-delta circuit at rotary coding switch on switch position 4 	113 A
 for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at rotary coding switch on switch 	120 A 126 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch 	133 A
 of a inside delta circuit at rotary coding switch on switch of a inside-delta circuit at rotary coding switch on switch 	140 A
position 8 • for inside-delta circuit at rotary coding switch on switch	147 A
position 9 • for inside-delta circuit at rotary coding switch on switch	154 A
position 10for inside-delta circuit at rotary coding switch on switch	161 A
position 11for inside-delta circuit at rotary coding switch on switch	168 A
 position 12 for inside-delta circuit at rotary coding switch on switch 	175 A
 position 13 for inside-delta circuit at rotary coding switch on switch position 14 	182 A
 for inside-delta circuit at rotary coding switch on switch position 15 	189 A
 for inside-delta circuit at rotary coding switch on switch position 16 	196 A
at inside-delta circuit minimum	91.8 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	46 W
• at 50 °C after startup	42 W
● at 60 °C after startup	39 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 512 W
• at 50 °C during startup	1 291 W
• at 60 °C during startup	1 086 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC

control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	380 mA
inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	7.6 A 3.3 A
maximum	12.1 ms
duration of inrush current peak at application of control supply voltage	
design of the overvoltage protection	Varistor 4. A C fuse (lou=1.kA) 6. A quick poting fuse (lou=1.kA). C1 miniature arouit
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	
Inputs/ Outputs number of digital inputs	1
number of digital inputs number of digital outputs	3
number of digital inputs number of digital outputs • not parameterizable	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs 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 Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
number of digital inputs 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 Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
number of digital inputs 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 Installation/ mounting/ dimensions mounting position fastening method height	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
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core and processing How Processing wike length 800 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contads with screw-type terminals 0
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 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type during storage and transport during storage according to IEC 60721 during storage according to IEC 60721 for for auxiliary and control contacts with screw-type during transport according to IEC 60721 formulaction module is supported PORFINET standard Yes Modous TCP wes Modous TCP wes Modous TCP wes PORFINET standard usable for Standard Faults at 460/480 V according to UL silemens type: 3VA52, max. 250 A; Iq = 10 KA silemens type: 3VA52, max. 250 A; Iq = 10 KA silemens type: 3VA52, max. 250 A; Iq = 10 KA silemens type: 3VA52, max. 250 A; Iq = 10 KA silemens t
terminals Series Status tightning torque (lbfin) 6 • for auxiliary and control contacts with screw-type terminals 89 124 lbfin • for auxiliary and control contacts with screw-type terminals 5 Ambient conditions 5 installation altitude at height above see level maximum 5 ambient temperature -0 • during storage and transport -40 • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get initiate the devices), 3M6 • during storage according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) EMC emitted interference acc. to IEC 60974-42: Class A communication infrotocol Yes • Modbus TCP Yes • Modbus TCP Yes • Dick for High Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; Iq = 10 KA • of circuit broaker Siemens type: 3VA52, max. 250 A; Iq = 10 KA • usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; Iq = 10 KA • of circuit broaker Siemens type: 3VA52, max. 250 A; Iq = 10 KA • usable for Standard Faults at 460/480 V
• for main contacts with screw-type terminals • for auxiliary and control contracts with screw-type terminals Antbient conditions installation attude at height above sea level maximum adbient temperature • during sorage and transport • during storage according to IEC 60721 · during transport according to IEC 60721 · velta interference · Communication Protocol · Communication Protocol · during transport according to IEC 60721 · velta · usable for Standard Protocol · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 460/480 V according to UL · usable for Standard Faults at 575/600 V according to UL · usable for Standard Faults at 575/600 V according to UL · usable for Standard Faults at 575/600 V according to UL · usable for Standard Faults at 575/600 V according to UL · usable for Standard Faults at 575/600
• for auxiliary and control contacts with screw-type T 10.3 lbf-in Antiont conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during operation according to EC 60721 • during storage according to EC 60721 • during storage according to EC 60721 • during transport according to EC 60721 • VEX, 22(, 128, 12X, 12X (rax. Kall height 0.3 m) acc. to EC 60947-4.2: Class A Communication module is supported • PROFINET standard • PROFINET standard • PROFINET • didobus RTU • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 4579600 V according to UL • usable for Standard Faults at 4579600 V according to UL • usable for Standard Faults at 579600 V according to UL • usable for Standard Faults at 579600 V according to UL • usable for Standard Faults at 579600 V according to UL • u
Ambient conditions installation allitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation according to IEC 60721 3K6 (no loc formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Moduus RTU Yes • Officient to thereforence acc. to IEC 60947.4-2: Class A Communication/ Protocol Yes communication module is supported Yes • RoFINET standard Yes • Moduus RTU Yes • usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA • usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA • usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA
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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 Yes manufacturer's article number • of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA - usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA • of the fuse - usable for Standard Faults up to 575/600 V according to UL • usable for Standard Faults up to 575/600 V according to UL Siemens type: 3VA52, max. 250 A; lq = 10 kA • of the fuse - usable for Standard Faults up to 575/600 V according to UL </td
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operating power [hp] for 3-phase motors
• at 200/208 V at 50 °C rated value 30 hp
• at 220/230 V at 50 °C rated value 30 hp
at 220/230 V at 50 °C rated value 30 hp at 460/480 V at 50 °C rated value 75 hp

• at 200/208 V at i	inside-delta circuit at 50 °	C rated value	50 hp			
• at 220/230 V at i	inside-delta circuit at 50 °	C rated value	60 hp			
• at 460/480 V at i	inside-delta circuit at 50 °	C rated value	125 hp			
• at 575/600 V at i	inside-delta circuit at 50 °C	C rated value	150 hp			
contact rating of auxi	iliary contacts according	g to UL	R300-B30	00		
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