SIEMENS

Data sheet

3RW5248-2TC05



SIRIUS soft starter 200-600 V 570 A, 24 V AC/DC spring-type terminals Thermistor input

product categoryHybrid switching devicesproduct designationSoft starterproduct type designation3RW52manufacturer's article number3RW5980-0HS00• of standard HMI module usable3RW5980-0HE00• of thigh feature HMI module usable3RW5980-0CS00• of communication module PROFINET standard3RW5980-0CP00• of communication module PROFIBUS usable3RW5980-0CP00• of communication module Modbus TCP usable3RW5980-0CP00• of communication module Modbus TCP usable3RW5980-0CE00• of cormunication module Ethernet/IP3RW5980-0CE00• of circuit breaker usable at 400 V3VA2580-6HN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10• of circuit breaker usable at 400 V3VA2580-6HN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10• of circuit breaker usable at 400 V at inside-delta3VA2510-6HN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10• of circuit breaker usable at 500 V3VA2510-6HN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10• of circuit breaker usable at 500 V at inside-delta3VA2510-6HN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10• of the gG fuse usable up to 690 V2x3NA3365-6; Type of coordination 1. Iq = 65 kA• of the gG fuse usable at inside-delta circuit up to 500 V3NE1437-2; Type of coordination 1. Iq = 65 kA• of the gG fuse link for semiconductor protection3NE1437-2; Type of coordination 1. Iq = 65 kA• of back-up R fuse link for semiconductor protection3NE1437-2; Type of coordination 2. Iq = 65 kA• of back-up R fuse link for semiconductor protection3NE1437-2;		
product designation Soft starter product type designation 3RW52 manufacture's article number 3RW52 • of standard HMI module usable 3RW52880-0HS00 • of communication module PROFINET standard 3RW58880-0HE00 • of communication module Rodbus RTU usable 3RW5980-0CR00 • of communication module Modbus TCP usable 3RW5980-0CR00 • of communication module BMOFINET standard 3RW5980-0CR00 • of communication module BMObus RTU usable 3RW5980-0CR00 • of circuit breaker usable at 400 V 3RW5980-0CR00 • of circuit breaker usable at 400 V 3RW5980-0CR00 • of circuit breaker usable at 400 V 3RW5980-0CR00 • of circuit breaker usable at 400 V 3RW5980-0CR00 • of circuit breaker usable at 400 V 3RW5980-0CR00 • of circuit breaker usable at 500 V 3VA2500-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 • of the gG fuse usable at 500 V 3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 • of the gG fuse usable at inside-delta circuit up to 3NE3140-8; Type of coordination 1, Iq = 65 kA • of back-up R fuse link for semiconductor protection 3NE3340-8; Type of coordination 1, Iq = 65 kA <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
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500 V • of full range R fuse link for semiconductor protection usable up to 690 V 3NE1437-2: Type of coordination 2. Iq = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3340-8; Type of coordination 2. Iq = 65 kA Starting voltage [%] 30 100 % starting voltage [%] 30 100 % stopping voltage [%] 0 20 s current limiting value [%] adjustable 130 700 % certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes • HMI-High Feature No • is supported HMI-Standard Yes • is supported HMI-High Feature Yes • is supported HMI-High Feature Yes • product feature integrated bypass contact system Yes	 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
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certificate of suitabilityYes• CE markingYes• UL approvalYes• CSA approvalYes• CSA approvalYes• HMI-High FeatureNo• is supported HMI-StandardYes• is supported HMI-High FeatureYes• product feature integrated bypass contact systemYes	start-up ramp time of soft starter	0 20 s
• CE markingYes• UL approvalYes• CSA approvalYesproduct componentYes• HMI-High FeatureNo• is supported HMI-StandardYes• is supported HMI-High FeatureYesproduct feature integrated bypass contact systemYes	current limiting value [%] adjustable	130 700 %
• UL approvalYes• CSA approvalYesproduct componentYes• HMI-High FeatureNo• is supported HMI-StandardYes• is supported HMI-High FeatureYesproduct feature integrated bypass contact systemYes	certificate of suitability	
• 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	CE marking	Yes
product component No • HMI-High Feature No • is supported HMI-Standard Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes	UL approval	Yes
• HMI-High Feature No • is supported HMI-Standard Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes	CSA approval	Yes
• is supported HMI-Standard Yes • is supported HMI-High Feature Yes product feature integrated bypass contact system Yes	product component	
• is supported HMI-High Feature Yes product feature integrated bypass contact system Yes	HMI-High Feature	No
product feature integrated bypass contact system Yes	 is supported HMI-Standard 	Yes
	 is supported HMI-High Feature 	Yes
number of controlled phases 3	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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 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; Full motor protection (thermistor motor protection and electronic motor overload protection)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
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	No
Power Electronics	
operational current	
at 40 °C rated value	570 A
• at 50 °C rated value	504 A
at 60 °C rated value	460 A
operational current at inside-delta circuit	
at 40 °C rated value	987 A
• at 50 °C rated value	873 A
at 60 °C rated value	796 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	

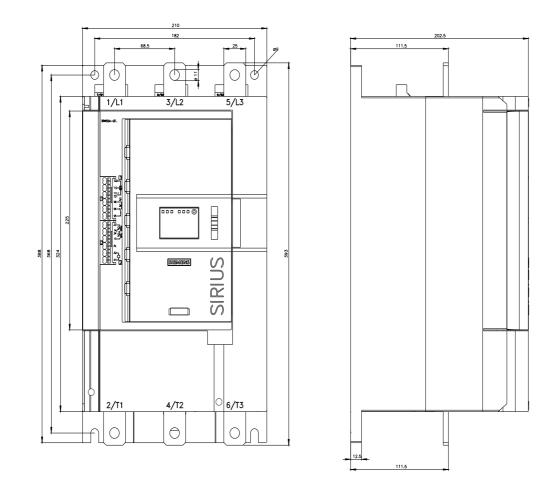
• at 230 V at 40 °C rated value	160 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	315 kW
 at 400 V at 40 °C rated value 	315 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	560 kW
 at 500 V at 40 °C rated value 	355 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	630 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 	240 A
 at rotary coding switch on switch position 2 	262 A
 at rotary coding switch on switch position 3 	284 A
 at rotary coding switch on switch position 4 	306 A
 at rotary coding switch on switch position 5 	328 A
 at rotary coding switch on switch position 6 	350 A
 at rotary coding switch on switch position 7 	372 A
 at rotary coding switch on switch position 8 	394 A
 at rotary coding switch on switch position 9 	416 A
 at rotary coding switch on switch position 10 	438 A
 at rotary coding switch on switch position 11 	460 A
 at rotary coding switch on switch position 12 	482 A
 at rotary coding switch on switch position 13 	504 A
 at rotary coding switch on switch position 14 	526 A
 at rotary coding switch on switch position 15 	548 A
 at rotary coding switch on switch position 16 	570 A
• minimum	240 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	416 A
 for inside-delta circuit at rotary coding switch on switch position 2 	454 A
• for inside-delta circuit at rotary coding switch on switch position 3	492 A
• for inside-delta circuit at rotary coding switch on switch position 4	530 A
 for inside-delta circuit at rotary coding switch on switch position 5 	568 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on 	606 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on 	644 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on 	682 A 721 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	759 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	797 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	835 A
 for inside delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	873 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	911 A
 for inside delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	949 A
 switch position 15 for inside-delta circuit at rotary coding switch on 	987 A
 switch position 16 at inside-delta circuit minimum 	416 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	

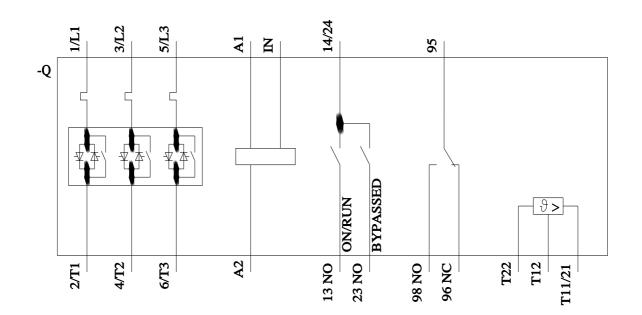
 at 40 °C after startup 	183 W
• at 50 °C after startup	163 W
• at 60 °C after startup	153 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	10 241 W
 at 50 °C during startup 	8 500 W
• at 60 °C during startup	7 663 W
Control circuit/ Control	
type of voltage of the control 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	470 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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	0
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	10
• forwards	10 mm
backwards	0 mm
 upwards 	100 mm

downwards	75 mm
at the side	5 mm
weight without packaging	10.6 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
wire length for thermistor connection	43 mm
• with conductor cross-section = 0.5 mm ² maximum	50 m
with conductor cross-section = 0.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm ² maximum	250 m
type of connectable conductor cross-sections	200 11
for DIN cable lug for main contacts stranded	2x (50 240 mm²)
for DIN cable lug for main contacts stranded	2x (70 240 mm ²)
type of connectable conductor cross-sections	2x (10 2+0 mm)
for control circuit solid	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end 	2x (0.25 1.5 mm ²)
processing	28 (0.25 1.5 mm)
at AWG cables for control circuit solid	2x (24 16)
at AWG cables for control circuit finely stranded with	2x (24 16)
core end processing	
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
 at the digital inputs at DC maximum 	1 000 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 	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	25 100 °C: Discos charge departing at temperatures of 40 °C as
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 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 the fuse	
— usable for Standard Faults up to 575/600 V according to UL	Type: Class J / L, max. 1600 A; Iq = 30 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA

	600 V according to	5 I II				
	/600 V according to gh Faults at inside-		Type: Class J / L, ma	$1200 \text{ A} \cdot \text{Ig} = 1$	00 kA	
to 575/600 V ac				ax. 1200 A, 1q -	UU KA	
operating power [hp] f	-	6				
• at 200/208 V at 50	-		150 hp			
• at 220/230 V at 50) °C rated value		200 hp			
• at 460/480 V at 50) °C rated value		400 hp			
• at 575/600 V at 50			500 hp			
 at 200/208 V at in: value 		50 °C rated	300 hp			
 at 220/230 V at install value 	side-delta circuit at	50 °C rated	350 hp			
 at 460/480 V at in: value 	side-delta circuit at	50 °C rated	750 hp			
● at 575/600 V at in: value	side-delta circuit at	50 °C rated	950 hp			
contact rating of auxili	ary contacts acco	ording to UL	R300-B300			
Safety related data		, , , , , , , , , , , , , , , , , , ,				
protection class IP on 60529	the front accordir	ig to IEC	IP00; IP20 with cove	r		
touch protection on th	e front according	to IEC 60529	finger-safe, for vertic	al contact from th	ne front with cov	ver
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Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917





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