SIEMENS



Data sheet

3RW5248-6TC05



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

product brand name SIRUS product category Hybrid switching devices product type designation 3RW52 manufacturer's article number - • of standard HMI module usable 3RW5980-0LF50 • of standard HMI module usable 3RW5980-0CS30 • of communication module PROFINET standard 3RW5980-0CC00 • of communication module Modbus TCP usable 3RW5980-0CC00 • of communication module Modbus RTU usable 3RW5980-0CC00 • of communication module Modbus RTU usable 3RW5980-0CC00 • of cincul breaker usable at 400 V 3RW5980-0CC00 • of cincul breaker usable at 400 V 3RW5980-0CE00 • of cincul breaker usable at 400 V 3RW5980-0CE00 • of cincul breaker usable at 400 V 3RW5980-0CE00 • of cincul breaker usable at 400 V 3RW5980-0CE00 • of cincul breaker usable at 400 V at inside-delta cincul true to sole 3RW5980-0CE00 • of cincul breaker usable at 900 V 3RW5980-0CE00 • of the gG fuse usable up to 690 V 2x3NA3365-6; Type of coordination 1, lq = 65 kA. • of the gG fuse usable up to 690 V 3RWE3340-8; Type of coordination 1, lq = 65 kA • of thu				
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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 General technical data 30 100 % storping voltage [%] 30 100 % storping voltage [%] 50 %; non-adjustable start-up ramp time of soft starter 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 • is supported HMI-High Feature Yes	 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
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usable up to 690 VImage: Constant of the second		<u>3NE1437-2; Type of coordination 2. Iq = 65 kA</u>		
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current limiting value [%] adjustable130 700 %certificate of suitability• CE markingYes• UL approvalYes• CSA approvalYesproduct componentYes• HMI-High FeatureNo• is supported HMI-StandardYes• is supported HMI-High FeatureYes• product feature integrated bypass contact systemYes	stopping voltage [%]	50 %; non-adjustable		
certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes • CSA approval Yes • HMI-High Feature No • is supported HMI-Standard Yes • is supported HMI-High Feature Yes • product feature integrated bypass contact system Yes	start-up ramp time of soft starter	0 20 s		
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• 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		
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• 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		

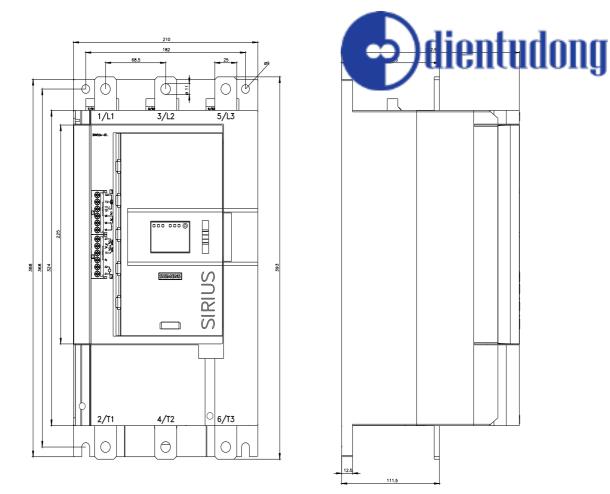
trip class	CLASS 10A (defaul / 20E, acc. to IEC 60947-4-2		
buffering time in the event of power failure o for main current circuit			
for control circuit			
	100 ms		
insulation voltage rated value	600 V		
degree of pollution	3, acc. to IEC 60947-4-2 6 kV		
impulse voltage rated value	1 600 V		
blocking voltage of the thyristor maximum service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation	0 KV		
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	0.7		
• at 40 °C rated value	987 A		
• at 50 °C rated value	873 A		
at 60 °C rated value	796 A		
operating voltage	200 600 1/		
rated value at inside delta circuit rated value	200 600 V		
at inside-delta circuit rated value	200 600 V		
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	15 % 		
relative positive tolerance of the operating voltage	-15 %		
inside-delta circuit			
relative positive tolerance of the operating voltage at inside-delta circuit	10 %		
operating power for 3-phase motors			

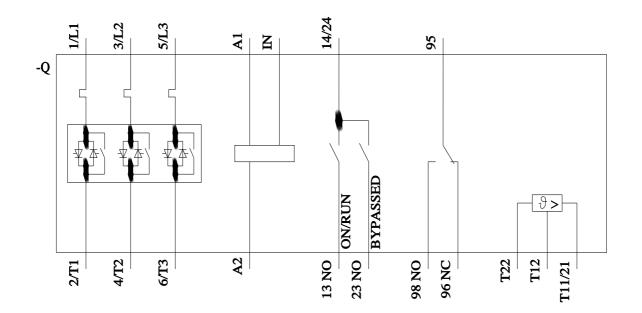
 at 230 V at 40 °C rated value 	160 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	315 kW
 at 400 V at 40 °C rated value 	160 kW 315 kW 315 kW Other control of the second sec
 at 400 V at inside-delta circuit at 40 °C rated value 	560 kW
 at 500 V at 40 °C rated value 	355 kW
 at 500 V at 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 	606 A
 for inside-delta circuit at rotary coding switch on switch position 7 	644 A
 for inside-delta circuit at rotary coding switch on switch position 8 	682 A
 for inside-delta circuit at rotary coding switch on switch position 9 	721 A
 for inside-delta circuit at rotary coding switch on switch position 10 	759 A
 for inside-delta circuit at rotary coding switch on switch position 11 	797 A
 for inside-delta circuit at rotary coding switch on switch position 12 	835 A
 for inside-delta circuit at rotary coding switch on switch position 13 	873 A
 for inside-delta circuit at rotary coding switch on switch position 14 	911 A
 for inside-delta circuit at rotary coding switch on switch position 15 	949 A
 for inside-delta circuit at rotary coding switch on 	987 A
switch position 16	
 switch position 16 at inside-delta circuit minimum minimum load [%] 	416 A 15 %; Relative to smallest settable le

 at 40 °C after startup 	183 W
 at 50 °C after startup 	163 W 163 W 153 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	-20 %
voltage at AC at 50 Hz	
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	
• forwards	10 mm
backwards	0 mm
upwards	100 mm

decomposede		
• downwards	75 mm	
the side weight without packaging	5 mm 10.6 kg dientudong	
Connections/ Terminals	10.0 Kg	
type of electrical connection		
for main current circuit	busbar connection	
for control circuit	screw-type terminals	
width of connection bar maximum	45 mm	
wire length for thermistor connection		
 with conductor cross-section = 0.5 mm² maximum 	50 m	
 with conductor cross-section = 1.5 mm² maximum 	150 m	
 with conductor cross-section = 2.5 mm² maximum 	250 m	
type of connectable conductor cross-sections		
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)	
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm ²)	
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		
 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 terminals 	0.8 1.2 N·m	
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		
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 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 U	Type: Class J / L, max. 1600 A; Iq = 30 kA	
according to UL — usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA	
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 1600 A; Iq = 30 kA	
— usable for High Faults at inside-delta circuit up	Type: Class J / L, max. 1200 A; lq = 100 kA	

		Tiotinit	c. 0000000700 10	medicinduolig
to 575/600 V according to UL				
operating power [hp] for 3-phase motors	6		D Idioni	nuonu
 at 200/208 V at 50 °C rated value 		150 hp	~ /uiciii	udong
 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 °C rated value 		500 hp		
 at 200/208 V at inside-delta circuit at value 	50 °C rated	300 hp		
 at 220/230 V at inside-delta circuit at value 	50 °C rated	350 hp		
 at 460/480 V at inside-delta circuit at value 	50 °C rated	750 hp		
at 575/600 V at inside-delta circuit at value		950 hp		
contact rating of auxiliary contacts acco	ording to UL	R300-B300		
Safety related data				
protection class IP on the front accordin 60529		IP00; IP20 with cover		
touch protection on the front according electromagnetic compatibility	to IEC 60529	finger-safe, for vertical co in accordance with IEC 6	ontact from the front with co 0947-4-2	over
Certificates/ approvals				
General Product Approval				EMC
			LH	RCM
Declaration of Conformity	Test Certifica	ates Marine / Shipping	g	
	<u>Type Test Ce</u> ates/Test Re		BUREAU VERITAS	Lloyd's Register urs
Marine / Shipping	other			
PRS DIVIGE	<u>Confirmation</u>	<u>n</u>		
Further information				
Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system)	•			
https://mall.industry.siemens.com/mall/en/e	en/Catalog/produc	t?mlfb=3RW5248-6TC05		
Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates)	Characteristics,	FAQs,)	<u>/5248-6TC05</u>	
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