SIEMENS

Data sheet

3RW5213-1TC05



SIRIUS soft starter 200-600 V 13 A, 24 V AC/DC Screw terminals Thermistor input

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 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1815-0; Type of coordination 2, Iq = 65 kA</u>
of back-up R fuse link for semiconductor protection	3NE8017-1; Type of coordination 2, Iq = 65 kA

usable up to 690 V

General 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
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 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
manual device protection 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 	N.
Power Electronics	No
operational current	NO
 at 40 °C rated value 	
	NO 13 A
at 40 °C rated value at 50 °C rated value	
	13 A
• at 50 °C rated value	13 A 11.5 A
 at 50 °C rated value at 60 °C rated value 	13 A 11.5 A
at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit	13 A 11.5 A 10.5 A
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value 	13 A 11.5 A 10.5 A 22.5 A
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 %
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage 	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V 10 %
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 % 10 % -15 %
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 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 3 kW 5.5 kW
 at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 400 V at 40 °C rated value 	13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 3 kW 5.5 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 	5.5 A
 at rotary coding switch on switch position 2 	6 A
 at rotary coding switch on switch position 3 	6.5 A
 at rotary coding switch on switch position 4 	7 A
 at rotary coding switch on switch position 5 	7.5 A
 at rotary coding switch on switch position 6 	8 A
 at rotary coding switch on switch position 7 	8.5 A
 at rotary coding switch on switch position 8 	9 A
 at rotary coding switch on switch position 9 	9.5 A
 at rotary coding switch on switch position 10 	10 A
 at rotary coding switch on switch position 11 	10.5 A
 at rotary coding switch on switch position 12 	11 A
 at rotary coding switch on switch position 13 	11.5 A
 at rotary coding switch on switch position 14 	12 A
 at rotary coding switch on switch position 15 	12.5 A
 at rotary coding switch on switch position 16 	13 A
• minimum	5.5 A
djustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	9.5 A
 for inside-delta circuit at rotary coding switch on switch position 2 	10.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	11.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	12.1 A
• for inside-delta circuit at rotary coding switch on switch position 5	13 A
 for inside-delta circuit at rotary coding switch on switch position 6 	13.9 A 14.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch 	14.7 A 15.6 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	16.5 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	17.3 A
 position 10 for inside-delta circuit at rotary coding switch on switch 	18.2 A
 position 11 for inside-delta circuit at rotary coding switch on switch 	19.1 A
position 12for inside-delta circuit at rotary coding switch on switch	19.9 A
 position 13 for inside-delta circuit at rotary coding switch on switch 	20.8 A
 position 14 for inside-delta circuit at rotary coding switch on switch position 15 	21.7 A
 position 15 for inside-delta circuit at rotary coding switch on switch position 16 	22.5 A
at inside-delta circuit minimum	9.5 A
ninimum load [%]	15 %; Relative to smallest settable le
oower loss [W] for rated value of the current at AC	
• at 40 °C after startup	16 W
• at 50 °C after startup	15 W
• at 60 °C after startup	15 W
oower loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	210 W
● at 50 °C during startup	178 W
• at 60 °C during startup	161 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
the sector of the sector	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	360 mA
inrush current by closing the bypass contacts maximum	0.75 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 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	2.1 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for control circuit 	screw-type terminals
for control circuit wire length for thermistor connection	screw-type terminals

• with conductor cross-section = 1.5 mm ² maximum	150 m
• with conductor cross-section = 2.5 mm ² maximum	250 m
type of connectable conductor cross-sections	
• for main contacts	$2 (4.0 - 2.5 mm^2) 2 (2.5 - 40 mm^2)$
— solid	2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
— finely stranded with core end processing	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
for 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 	2 2.5 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 	18 22 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
during storage according to IEC 60721	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
during transport according to IEC 60721	inside the devices), 1M4 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	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
to UL	Signaps type: $3D/(27/2)$ may 20 A or $2)/(451)$ may 25 A; is may = 65 i.4
 — 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 	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
— usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
— usable for Standard Faults at 575/600 V at inside- delta circuit according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
• of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 50 A; lq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 50 A; lq = 5 kA
- usable for High Faults at inside-delta circuit up to	Type: Class J / L, max. 50 A; lq = 100 kA

E7E/600 \/ aa	oording to LII				
575/600 V act operating power [hp]					
	-		2 hn		
 at 200/208 V at 3 at 220/220 V at 3 			2 hp		
 at 220/230 V at 1 at 460/480 V at 1 			3 hp 7 5 hp		
• at 460/480 V at 5			7.5 hp		
• at 575/600 V at 5			10 hp		
	inside-delta circuit at 50 °		5 hp		
	inside-delta circuit at 50 °		5 hp		
	inside-delta circuit at 50 °		10 hp		
	inside-delta circuit at 50 °		15 hp		
<u> </u>	iliary contacts according	g to UL	R300-B300		
fety related data		150 00500	1000		_
	n the front according to		IP20	at former the entered	
-	he front according to IE	C 60529	finger-safe, for vertical conta		
electromagnetic com			in accordance with IEC 6094	17-4-2	
rtificates/ approvals					
General Product App	oroval				EMC
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