## **SIEMENS**

## Data sheet

## 3RW5213-3TC05



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

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3820-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3820-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1815-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8017-1; Type of coordination 2, Iq = 65 kA</u>
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	

continuate of cultability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	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

• for control circuit

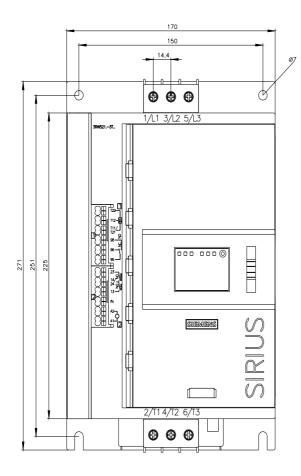
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	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	
<ul> <li>ramp-up (soft starting)</li> </ul>	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)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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
	No
torque control     analog output	No
Power Electronics	NO
operational current	
• at 40 °C rated value	13 A
• at 50 °C rated value	11.5 A
at 60 °C rated value	10.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	22.5 A
• at 50 °C rated value	
<ul> <li>at 60 °C rated value</li> </ul>	19.9 A
	19.9 A 18.2 A
operating voltage	
• rated value	
	18.2 A
rated value	18.2 A 200 600 V
rated value     at inside-delta circuit rated value	18.2 A 200 600 V 200 600 V
rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage	18.2 A 200 600 V 200 600 V -15 %
rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	18.2 A 200 600 V 200 600 V -15 % 10 %
rated value     at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at	18.2 A 200 600 V 200 600 V -15 % 10 % -15 %
rated value     at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive 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	18.2 A 200 600 V 200 600 V -15 % 10 % -15 %
rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive 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 operating power for 3-phase motors	18.2 A 200 600 V 200 600 V -15 % 10 % 10 %
• rated value     • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive 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 operating power for 3-phase motors     • at 230 V at 40 °C rated value	18.2 A 200 600 V 200 600 V -15 % 10 % 10 % 3 kW
rated value     at inside-delta circuit rated value     relative negative tolerance of the operating voltage     relative positive 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     operating power for 3-phase motors         at 230 V at 40 °C rated value         at 230 V at 40 °C rated value         at 400 V at 40 °C rated value	18.2 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 3 kW 5.5 kW 5.5 kW
• rated value     • at inside-delta circuit rated value     relative negative tolerance of the operating voltage relative positive 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 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	18.2 A 200 600 V 200 600 V -15 % 10 % 10 % 3 kW 5.5 kW

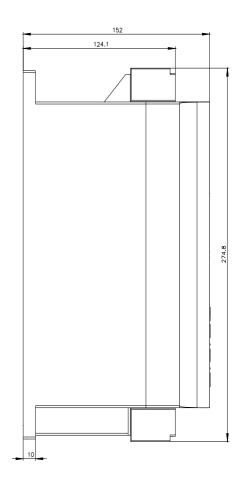
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
at rotary coding switch on switch position 1	5.5 A
at rotary coding switch on switch position 2	6 A
at rotary coding switch on switch position 3	6.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	7 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	7.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	8 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	8.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	9 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	9.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	10 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	10.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	11 A
at rotary coding switch on switch position 13	11.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	12 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	12.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	13 A
• minimum	5.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	9.5 A
for inside-delta circuit at rotary coding switch on switch     position 2	10.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	11.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	12.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	13 A 13.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	14.7 A
<ul> <li>or inside delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	15.6 A
<ul> <li>or inside delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	16.5 A
<ul> <li>position 9</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	17.3 A
<ul><li>position 10</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	18.2 A
<ul><li>position 11</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	19.1 A
<ul> <li>position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	19.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	20.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	21.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	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

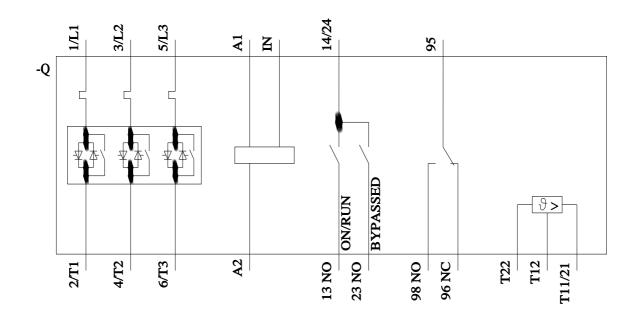
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at 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	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	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	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	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>	
	spring-loaded terminals

• with conductor cross-section = 1.5 mm <sup>2</sup> maximum	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
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	1000 m
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf-in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
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	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
	inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	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	
<ul> <li>PROFINET standard</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
<ul> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
<ul> <li>— usable for Standard Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> </ul>	Type: Class RK5 / K5, max. 50 A; Ig = 5 kA
according to UL — usable for High Faults up to 575/600 V according to	Type: Class J / L, max. 50 A; lq = 100 kA
UL — usable for Standard Faults at inside-delta circuit up	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA

to 575/600 V according to UL		
— usable for High Faults at inside-delta circuit up to	Type: Class J / L, max. 50 A; lq = 100 kA	
575/600 V according to UL		
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	2 hp	
• at 220/230 V at 50 °C rated value	3 hp	
• at 460/480 V at 50 °C rated value	7.5 hp	
• at 575/600 V at 50 °C rated value	10 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value	5 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value	5 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value	10 hp	
at 575/600 V at inside-delta circuit at 50 °C rated value	15 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data	IP20	
protection class IP on the front according to IEC 60529		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front in accordance with IEC 60947-4-2	
electromagnetic compatibility Certificates/ approvals	In accordance with IEC 60947-4-2	
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General Product Approval	EMC	
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