## SIEMENS

## Data sheet

## 3RW5225-3TC04



SIRIUS soft starter 200-480 V 63 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>	<u>3VA2163-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2163-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3830-6;</u> Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3830-6;</u> Type of coordination 1, lq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1022-0;</u> Type of coordination 2, lq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8024-1;</u> Type of coordination 2, Iq = 65 kA
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> <li>UL approval</li> </ul>	Yes
<ul> <li>CSA approval</li> </ul>	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	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
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	1 400 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
<ul> <li>motor overload protection</li> </ul>	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
<ul> <li>inside-delta circuit</li> </ul>	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
	module
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes
analog output	No
5 1	NO
Power Electronics	
operational current	62.4
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	63 A 55.5 A
at 50 °C rated value     at 60 °C rated value	
• at 60 °C rated value operational current at inside-delta circuit	50.5 A
at 40 °C rated value	109 A
• at 50 °C rated value	96 A
at 50 °C rated value	87.5 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative positive tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 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	
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	25.5 A 28 A
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	20 A 30.5 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> </ul>	33 A
<ul> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	35.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	38 A
<ul> <li>at rotary coding switch on switch position 0</li> <li>at rotary coding switch on switch position 7</li> </ul>	40.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	43 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	45.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	48 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	50.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	53 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	55.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	58 A
at rotary coding switch on switch position 15	60.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	63 A
• minimum	25.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	44.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	48.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	52.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	57.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	61.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	65.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	70.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	74.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	78.8 A 83.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	87.5 A
<ul> <li>switch position 11</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	91.8 A
<ul> <li>switch position 12</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	96.1 A
switch position 13 • for inside-delta circuit at rotary coding switch on	100 A
switch position 14 • for inside-delta circuit at rotary coding switch on	105 A
switch position 15 • for inside-delta circuit at rotary coding switch on	109 A
switch position 16	
at inside-delta circuit minimum	44.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	21 \\\
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> </ul>	31 W 29 W
• at 50 °C after startup	29 W
power loss [W] at AC at current limitation 350 %	2
• at 40 °C during startup	882 W
• at 50 °C during startup	744 W
• at 60 °C during startup	659 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

<ul> <li>at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at 60 Hz rated value</li> </ul>	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 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
<ul> <li>not parameterizable</li> </ul>	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	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	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	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
<ul> <li>backwards</li> </ul>	0 mm
upwards	100 mm
<ul> <li>downwards</li> </ul>	75 mm
• at the side	5 mm
weight without packaging	5.6 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	box terminal
	box terminal spring-loaded terminals
for main current circuit	
<ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>	spring-loaded terminals
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> </ul>	spring-loaded terminals
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> </ul>	spring-loaded terminals 25 mm
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	spring-loaded terminals 25 mm 50 m
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection         <ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul> </li> </ul>	spring-loaded terminals 25 mm 50 m 150 m
<ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	spring-loaded terminals 25 mm 50 m 150 m

<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)
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 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	4.5 6 N·m 0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 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
during storage according to IEC 60721	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> <li>EMC emitted interference</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 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 to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA

	High Faults at 460/480	V according	Siemens typ	be: 3VA51, max.	125 A; lq max = 65 k	4	
	Standard Faults at 460, rcuit according to UL	/480 V at	Siemens typ	be: 3VA51, max.	125 A; lq = 10 kA		
— usable for I	High Faults at 460/480 ccording to UL	V at inside-	Siemens type: 3VA51, max. 125 A; lq max = 65 kA			٩	
	usable for Standard Faults at 575/600 V		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA				
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL		Siemens type: 3VA51, max. 125 A; Iq = 10 kA					
<ul> <li>of the fuse</li> </ul>	-						
<ul> <li>— usable for \$ according to L</li> </ul>	Standard Faults up to 5 JL	575/600 V	Type: Class	RK5 / K5, max.	200 A; lq = 10 kA		
	— usable for High Faults up to 575/600 V according to UL		Type: Class	Type: Class J / L, max. 225 A; Iq = 100 kA			
	Standard Faults at insid 75/600 V according to I		Type: Class	RK5 / K5, max.	200 A; lq = 10 kA		
to 575/600 V a	High Faults at inside-de according to UL	elta circuit up	Type: Class	J / L, max. 225	A; lq = 100 kA		
operating power [hp]	for 3-phase motors						
<ul> <li>at 200/208 V at</li> </ul>	50 °C rated value		15 hp				
<ul> <li>at 220/230 V at</li> </ul>	50 °C rated value		20 hp				
<ul> <li>at 460/480 V at</li> </ul>	50 °C rated value		40 hp				
• at 200/208 V at value	inside-delta circuit at 5	0 °C rated	30 hp				
• at 220/230 V at value	inside-delta circuit at 5	0 °C rated	30 hp				
value	inside-delta circuit at 5		75 hp				
contact rating of aux	iliary contacts accord	ding to UL	R300-B300				
Safety related data							
	n the front according	to IEC	IP00; IP20 v	vith cover			
60529							
	the front according to	DIEC 60529	finger-safe,	for vertical conta	act from the front with	cover	
	-	DIEC 60529	-	for vertical conta ce with IEC 6094		cover	
touch protection on	npatibility	DIEC 60529	-			cover	
touch protection on a electromagnetic com	npatibility	DIEC 60529	-			cover EMC	
touch protection on a electromagnetic com Certificates/ approvals	proval	DIEC 60529	-				
touch protection on a electromagnetic com Certificates/ approvals	npatibility	o IEC 60529	-				
touch protection on a electromagnetic com Certificates/ approvals	proval		-			EMC	
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touch protection on a electromagnetic com Certificates/ approvals	proval		-			EMC	
touch protection on the electromagnetic com Certificates/ approvals General Product App	proval <u>Confirmation</u>		in accordan	ce with IEC 6094		EMC	
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touch protection on the electromagnetic com Certificates/ approvals General Product App Certificates/ approvals General Product App Certificates/ approvals Certificates/ appr	proval Confirmation	CCC Test Certifica	in accordan ites Mari	ce with IEC 6094		EMC ECM RCM	
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https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5225-3TC04

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-3TC04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5225-3TC04&lang=en

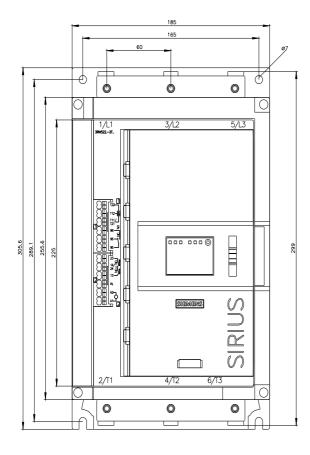
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

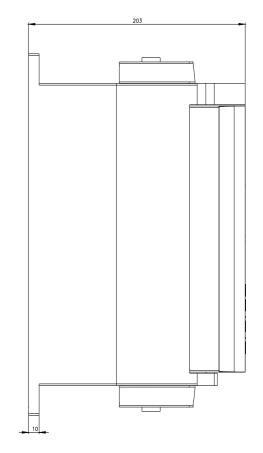
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC04/char

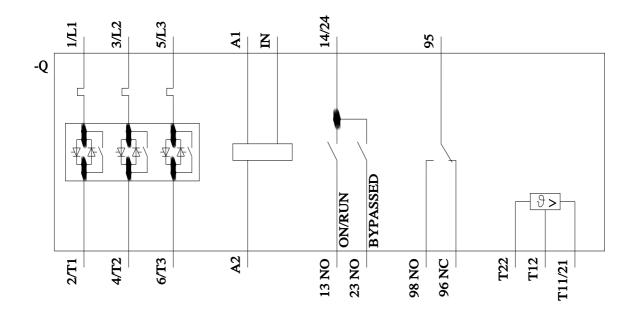
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-3TC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







last modified:

9/13/2022 🖸