SIEMENS

Data sheet

3RW5225-1AC05



SIRIUS soft starter 200-600 V 63 A, 24 V AC/DC Screw terminals Analog output

product category Hybrid switching devices product category Hybrid switching devices product designation SRW52 anufacturer's article number 3RW520 • of shandard HMI module usable 3RW5280-OLFS00 • of oright feature HMI module usable 3RW5880-OLCS00 • of communication module PROFINET standard 3RW5880-OLCS00 • of communication module Modbus TCP usable 3RW5880-OLCD0 • of communication module Bhortenet/IP 3RW5880-OLCD0 • of circuit breaker usable at 400 V 3RW5880-OLCD0 • of circuit breaker usable at 400 V 3VA2163-7MN32-0AA0. Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 400 V 3VA2163-7MN32-0AA0. Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 400 V 3VA2163-7MN32-0AA0. Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 400 V 3VA2163-7MN32-0AA0. Type of coordination 1. Iq = 65 kA. CLASS 10 • of circuit breaker usable at 00 V 3VA2110-7MN32-0AA0. Type of coordination 1. Iq = 65 kA. CLASS 10 • of the GG fuse usable at inside-delta 3VA2110-7MN32-0AA0. Type of coordination 1. Iq = 65 kA • of the GG fuse usable at inside-delta 3VA2110-7MN32-0AA0. Type of coordination 1. Iq = 65 kA • of back-up R t		
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HMI-Standard Yes HMI-High Feature Yes	product component is supported	
		Yes
	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
	600 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	600.V/
between main and auxiliary circuit	
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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	X
• 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; Electronic motor overload protection
 evaluation of thermistor motor protection 	No
 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	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current	
• at 40 °C rated value	63 A
• at 50 °C rated value	56 A
• at 60 °C rated value	51 A
operational current at inside-delta circuit	
• at 40 °C rated value	109 A
• at 50 °C rated value	96 A
• at 60 °C rated value	87.5 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	-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 	18.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 400 V at 40 °C rated value 	30 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	55 kW
 at 500 V at 40 °C rated value 	37 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	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	
 at rotary coding switch on switch position 1 	25.5 A
 at rotary coding switch on switch position 2 	28 A
 at rotary coding switch on switch position 3 	30.5 A
 at rotary coding switch on switch position 4 	33 A
 at rotary coding switch on switch position 5 	35.5 A
• at rotary coding switch on switch position 6	38 A
 at rotary coding switch on switch position 7 	40.5 A
 at rotary coding switch on switch position 8 	43 A
 at rotary coding switch on switch position 9 	45.5 A
 at rotary coding switch on switch position 10 	48 A
 at rotary coding switch on switch position 11 	50.5 A
 at rotary coding switch on switch position 12 	53 A
• at rotary coding switch on switch position 13	55.5 A
 at rotary coding switch on switch position 14 	58 A
 at rotary coding switch on switch position 15 	60.5 A
 at rotary coding switch on switch position 16 	63 A
minimum	25.5 A
adjustable motor current	20.0 M
 for inside-delta circuit at rotary coding switch on switch position 1 	44.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	48.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	52.8 A
 for inside-delta circuit at rotary coding switch on switch position 4 	57.2 A
 for inside-delta circuit at rotary coding switch on switch position 5 	61.5 A
 for inside-delta circuit at rotary coding switch on switch position 6 	65.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 	70.1 A
 for inside-delta circuit at rotary coding switch on switch position 8 	74.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	78.8 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on 	83.1 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	96.1 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	100 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	105 A
switch position 15	

• for inside delta size it at retary adding switch on	109 A
 for inside-delta circuit at rotary coding switch on switch position 16 	109 A
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	
• at 40 °C after startup	31 W
• at 50 °C after startup	29 W
• at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 %	
• 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	Adibo
at 50 Hz rated value	24 V
at 50 Hz rated value	24 V 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	380 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 inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	2 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
• at DC-13 at 250 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	- 306 mm
width	185 mm
depth	203 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	5.6 kg
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	box terminal
 for control circuit 	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
 at AWG cables for main contacts for box terminal using the front clamping point 	1x (10 2/0)
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)
 at AWG cables for main contacts for box terminal using the back clamping point 	1x (10 2/0)
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
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	4.5 6 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	40 53 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

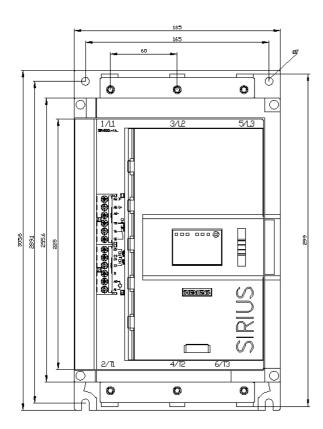
	above	
 during storage and transport 	-40 +80 °C	
environmental category		
 during operation acc. to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
during transport acc. 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 circuit breaker		
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA	
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq = 10 kA	
 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
 — usable for Standard Faults at 575/600 V according to UL 	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; lq = 10 kA	
 of the fuse 		
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 200 A; lq = 10 kA	
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 225 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. 200 A; lq = 10 kA	
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 225 A; lq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	15 hp	
• at 220/230 V at 50 °C rated value	20 hp	
• at 460/480 V at 50 °C rated value	40 hp	
• at 575/600 V at 50 °C rated value	50 hp	
 at 200/208 V at inside-delta circuit at 50 °C rated value 	30 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value	30 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp	
• at 575/600 V at inside-delta circuit at 50 °C rated value	75 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover	
electromagnetic compatibility	in accordance with IEC 60947-4-2	
Certificates/ approvals		
General Product Approval	EMC Declaration of Conformity	

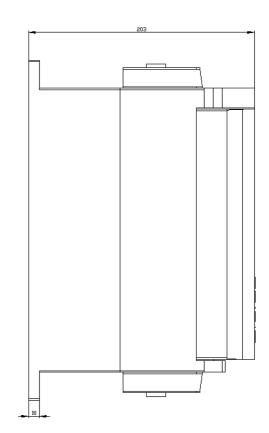


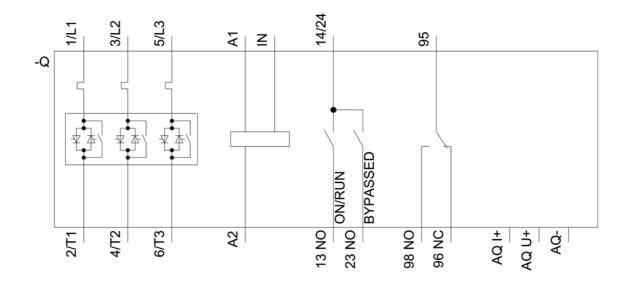
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Simulation Tool for	or Soft Starters (STS)

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