SIEMENS

Data sheet

3RW5236-6AC04



SIRIUS soft starter 200-480 V 171 A, 24 V AC/DC Screw terminals Analog output

SIRIUS
Hybrid switching devices
Soft starter
3RW52
51(11)2
3RW5980-0HS00
<u>3RW5980-0HF00</u>
<u>3RW5980-0CS00</u>
<u>3RW5980-0CP00</u>
<u>3RW5980-0CT00</u>
<u>3RW5980-0CR00</u>
<u>3RW5980-0CE00</u>
3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
3VA2440-7MN32-0AA0: Type of coordination 1. Iq = 30 kA. CLASS 10
3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<u>3NA3365-6; Type of coordination 1, Iq = 65 kA</u>
<u>3NA3365-6; Type of coordination 1, Iq = 65 kA</u>
<u>3NE1230-0; Type of coordination 2, Iq = 65 kA</u>
<u>3NE3335; Type of coordination 2, Iq = 65 kA</u>
30 100 %
50 50 %
0 20 s
130 700 %
Yes
Yes
Yes
Yes
Yes
Yes
3

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	C00.)/
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	
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	171 A
• at 50 °C rated value	153 A
• at 60 °C rated value	141 A
operational current at inside-delta circuit	
• at 40 °C rated value	296 A
• at 50 °C rated value	265 A
• at 60 °C rated value	244 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 negative tolerance of the operating voltage at inside-delta circuit	-15 %
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	45 kW

a at 220 V at incide dalla sizevit at 40 °O actual v	00 1/11
• at 230 V at inside-delta circuit at 40 °C rated value	90 kW
• at 400 V at 40 °C rated value	90 kW
at 400 V at inside-delta circuit at 40 °C rated value	160 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	81 A
at rotary coding switch on switch position 2	87 A
at rotary coding switch on switch position 3	93 A
• at rotary coding switch on switch position 4	99 A
at rotary coding switch on switch position 5	105 A
• at rotary coding switch on switch position 6	111 A
at rotary coding switch on switch position 7	117 A
at rotary coding switch on switch position 8	123 A
at rotary coding switch on switch position 9	129 A
at rotary coding switch on switch position 10	135 A
at rotary coding switch on switch position 11	141 A
at rotary coding switch on switch position 12	147 A
 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 	153 A
 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 	159 A 165 A
 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 	165 A 171 A
 at rotary coding switch on switch position 16 minimum 	81 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	140 A
 for inside-delta circuit at rotary coding switch on switch position 2 	151 A
 for inside-delta circuit at rotary coding switch on switch position 3 	161 A
 for inside-delta circuit at rotary coding switch on switch position 4 	171 A
 for inside-delta circuit at rotary coding switch on switch position 5 	182 A
 for inside-delta circuit at rotary coding switch on switch position 6 	192 A
for inside-delta circuit at rotary coding switch on switch position 7	203 A
 for inside-delta circuit at rotary coding switch on switch position 8 	213 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside data circuit at rotary coding switch on 	223 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	234 A 244 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	255 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	265 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	275 A
switch position 14for inside-delta circuit at rotary coding switch on	286 A
switch position 15for inside-delta circuit at rotary coding switch on	296 A
switch position 16	140.4
at inside-delta circuit minimum	140 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 	63 W
• at 50 °C after startup	53 W
• at 60 °C after startup	56 W

power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 405 W
• at 50 °C during startup	2 037 W
• at 60 °C during startup	1 826 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	10 %
voltage frequency	
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 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	40
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
 downwards at the side 	75 mm
	5 mm

weight without packaging	7.15 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
 for DIN cable lug for main contacts stranded 	2x (16 95 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (25 120 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 	10 14 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	89 124 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	Vee
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: 3VA52, max. 250 A; Iq = 10 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL of the fuse 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
• of the fuse	

 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, ma	ax. 400 A; lq = 10 kA		
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 3	Type: Class J / L, max. 350 A; Iq = 100 kA		
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, ma	Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J / L, max. 350 A; lq = 100 kA		
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 3			
operating power [hp] for 3-phase motors				
• at 200/208 V at 50 °C rated value	50 hp			
• at 220/230 V at 50 °C rated value	50 hp			
• at 460/480 V at 50 °C rated value		100 hp		
at 200/208 V at inside delta circuit at 50 °C rated value		75 hp		
• at 220/230 V at inside-delta circuit at 50 °C rated value	100 hp			
at 460/480 V at inside-delta circuit at 50 °C rated value	200 hp			
contact rating of auxiliary contacts according to UL afety related data	R300-B300			
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover			
ouch protection on the front acc. to IEC 60529	finger-safe, for vertical co	ntact from the front with	h cover	
electromagnetic compatibility	in accordance with IEC 6			
ertificates/ approvals				
			Declaration of	
) EAC		Conformity CE EG-Konf.	
) EAC		CE	
General Product Approval) EAC	EMC RCM	CE	
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https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

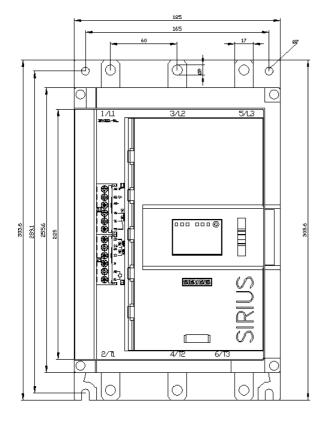
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5236-6AC04&lang=en

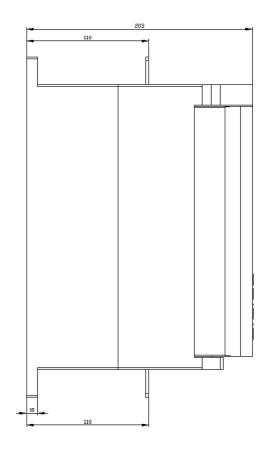
Characteristic: Tripping characteristics, I²t, Let-through current

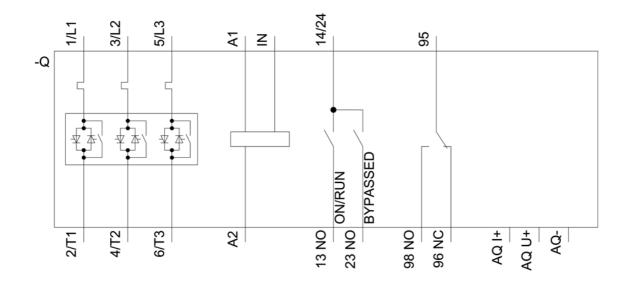
https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-6AC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5236-6AC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)







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