SIEMENS

Data sheet

3RW5234-6TC15



SIRIUS soft starter 200-600 V 113 A, 110-250 V AC 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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3244-6; Type of coordination 1, Iq = 65 kA</u>			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1225-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3332-0B; 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				
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			

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 protective separation	0 KV				
	600.1/				
between main and auxiliary circuit shock resistance	600 V 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 02/15/2018				
Substance Prohibitance (Date)	02/15/2018				
product function	No.				
• 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; 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 	No				
Power Electronics					
operational current					
• at 40 °C rated value	113 A				
• at 50 °C rated value	101 A				
• at 60 °C rated value	89 A				
operational current at inside-delta circuit					
• at 40 °C rated value	196 A				
● at 50 °C rated value	175 A				
● at 60 °C rated value	154 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 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	30 kW				
	30 kW 55 kW				
• at 230 V at 40 °C rated value					
 at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value 	55 kW				
 at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	55 kW 55 kW				
 at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 	55 kW 55 kW 110 kW				
 at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	55 kW 55 kW 110 kW 75 kW				

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 	53 A
 at rotary coding switch on switch position 2 	57 A
 at rotary coding switch on switch position 3 	61 A
 at rotary coding switch on switch position 4 	65 A
 at rotary coding switch on switch position 5 	69 A
 at rotary coding switch on switch position 6 	73 A
 at rotary coding switch on switch position 7 	77 A
 at rotary coding switch on switch position 8 	81 A
 at rotary coding switch on switch position 9 	85 A
 at rotary coding switch on switch position 10 	89 A
 at rotary coding switch on switch position 11 	93 A
 at rotary coding switch on switch position 12 	97 A
 at rotary coding switch on switch position 13 	101 A
 at rotary coding switch on switch position 14 	105 A
 at rotary coding switch on switch position 15 	109 A
 at rotary coding switch on switch position 16 	113 A
• minimum	53 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	98.7 A
 for inside-delta circuit at rotary coding switch on switch position 3 	106 A
• for inside-delta circuit at rotary coding switch on switch position 4	113 A
for inside-delta circuit at rotary coding switch on switch position 5	120 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on switch 	126 A 133 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch 	140 A
 of inside-delta circuit at rotary coding switch on switch of inside-delta circuit at rotary coding switch on switch 	147 A
 or inside delta circuit at rotary coding switch on switch or inside-delta circuit at rotary coding switch on switch 	154 A
 position 10 for inside-delta circuit at rotary coding switch on switch 	161 A
position 11for inside-delta circuit at rotary coding switch on switch	168 A
position 12for inside-delta circuit at rotary coding switch on switch	175 A
position 13for inside-delta circuit at rotary coding switch on switch	182 A
 position 14 for inside-delta circuit at rotary coding switch on switch 	189 A
 position 15 for inside-delta circuit at rotary coding switch on switch position 16 	196 A
at inside-delta circuit minimum	91.8 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	46 W
• at 50 °C after startup	42 W
• at 60 °C after startup	39 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 512 W
• at 50 °C during startup	1 291 W
• at 60 °C during startup	1 086 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
······································	

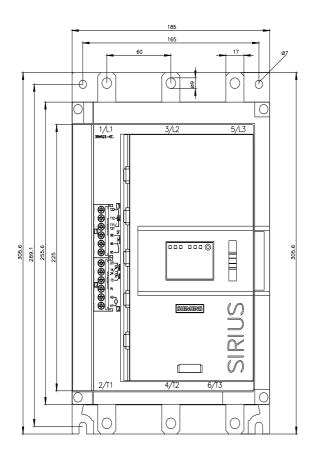
control supply voltage at AC				
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
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 current in standby mode rated value	30 mA			
holding current in bypass operation rated value	75 mA			
inrush current by closing the bypass contacts maximum	2.5 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 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	and the second se			
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	with vertical mounting surface $+/-90^{\circ}$ rotatable, with vertical mounting surface $+/-22.5^{\circ}$ 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				
• forwards	10 mm			
backwards	0 mm			
• upwards	100 mm			
downwards	75 mm			
• at the side	5 mm			
weight without packaging	6.6 kg			
Connections/ Terminals				
type of electrical connection				
for main current circuit				
 for control circuit 	busbar connection			
	busbar connection screw-type terminals			
width of connection bar maximum				
	screw-type terminals			
width of connection bar maximum	screw-type terminals			
width of connection bar maximum wire length for thermistor connection	screw-type terminals 25 mm			
 width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 	screw-type terminals 25 mm 50 m			
 width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	screw-type terminals 25 mm 50 m 150 m			
 width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	screw-type terminals 25 mm 50 m 150 m			
 width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections 	screw-type terminals 25 mm 50 m 150 m 250 m			
width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded	screw-type terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm²)			
width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded	screw-type terminals 25 mm 50 m 150 m 250 m 2x (16 95 mm²)			

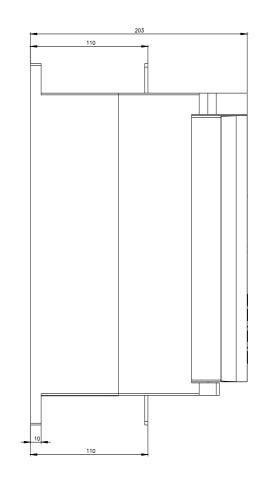
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
 for AWG cables for control circuit solid 	x (20 12), 2x (20 14)			
wire length				
 between soft starter and motor maximum 	800 m			
at the digital inputs at AC maximum	100 m			
tightening torque				
 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 	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				
 during operation according 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 according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get			
	inside the devices), 1M4			
 during transport according 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	Yes			
UL/CSA ratings manufacturer's article number	Yes			
UL/CSA ratings manufacturer's article number • of circuit breaker				
UL/CSA ratings manufacturer's article number	Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA			
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according				
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-	Siemens type: 3VA52, max. 250 A; Iq = 10 kA			
UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 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 usable for High Faults at 460/480 V at inside-delta	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA			
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — 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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA			
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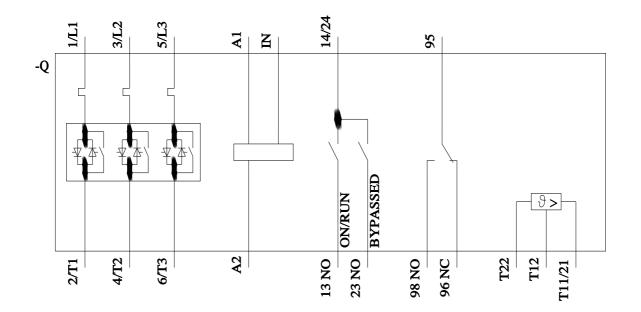
contact rating of aux	iliary contacts according	to UL R	300-B300		
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