SIEMENS

Data sheet

3RW5247-6TC04



SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC 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 	3VA2450-7MN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2510-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10</u>
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1436-2; Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
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 is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

Interest CLASS 10A (default) / 10E / 20E; acc. to IEC 60947.4-2 buffering time in the event of power failure 100 ms is to rank current circuit 100 ms is to rank current circuit 100 ms is to rank current circuit 100 ms is control circuit 600 V service factor 1 surge voltage realstance rated value 6 kV is control circuit 600 V shock main and auxilay circuit 600 V is control circuit 15 ms to 612, 20 t5 00 Hz uitization vitage or safe isolation 15 ms to 612, 20 t5 00 Hz uititititititititititititititititititit	number of controlled phases	3		
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reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02.2018 00:00.00 product function Yes • ramp-up (soft starting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • upup ramp down Yes • upup ramp down 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 • manual RESET Yes • auto-RESET Yes • ermote reset Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software configurable Yes • via software configurable Yes • firmware update Yes • forque control No • at 00 °C rated value 416 A • at 00 °C rated value 814 A • at 00 °C rated value 814 A • at 00 °C rated value 814 A		_		
Substance Prohibitance (Data) 15.02.2018 00:00:00 product function * • ramp-down (soft stop) Yes • soft Torque Yes • adjustable current limitation Yes • unprove (soft staring) Yes • adjustable current limitation Yes • undor 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 • andor AESET Yes • anoual RESET Yes; Only in conjunction with special accessories • operating measured value display Yes; in connection with special accessories • via software parameterizable No • via software configurable Yes • errovable terminal for control circuit Yes • firmware update Yes • forque control No • analog output No • at 00 °C rated value 410 °C rated value • at 00 °C rated value 410 A • at 00 °C rated value 814 A • at 00 °C rated value 658 A • at 00 °C rated value 658 A				
product function Yes • ramp-up (soft starting) Yes • soft Torque Yes • Soft Torque Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • initrinsic device 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 • notor overload protection Yes, Type A PTC or Klixon / Thermoclick • auto-RESET Yes • auto-RESET Yes • remote reset Yes, Duty in conjunction with special accessories • operating measured value display Yes, Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • aradig output No • analog output No • analog output Yes • forque control No • at 0° C rated value 416 A • at 0° C rat				
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relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %		-15 %		
relative negative tolerance of the operating voltage at -15 %		10 %		
		-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 	132 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	250 kW
 at 400 V at 40 °C rated value 	250 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	400 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 	200 A
 at rotary coding switch on switch position 2 	218 A
 at rotary coding switch on switch position 3 	236 A
 at rotary coding switch on switch position 4 	254 A
 at rotary coding switch on switch position 5 	272 A
 at rotary coding switch on switch position 6 	290 A
 at rotary coding switch on switch position 7 	308 A
 at rotary coding switch on switch position 8 	326 A
 at rotary coding switch on switch position 9 	344 A
 at rotary coding switch on switch position 10 	362 A
 at rotary coding switch on switch position 11 	380 A
 at rotary coding switch on switch position 12 	398 A
 at rotary coding switch on switch position 13 	416 A
 at rotary coding switch on switch position 14 	434 A
 at rotary coding switch on switch position 15 	452 A
 at rotary coding switch on switch position 16 	470 A
• minimum	200 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	346 A
 for inside-delta circuit at rotary coding switch on switch position 2 	378 A
 for inside-delta circuit at rotary coding switch on switch position 3 	409 A
 for inside-delta circuit at rotary coding switch on switch position 4 	440 A
 for inside-delta circuit at rotary coding switch on switch position 5 	471 A
• for inside-delta circuit at rotary coding switch on switch position 6	502 A
 for inside-delta circuit at rotary coding switch on switch position 7 	533 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	565 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on 	596 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on 	627 A 658 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	689 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	721 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	752 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	783 A
 For inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	814 A
switch position 16	

 at inside-delta circuit minimum 	346 A
• at inside-delta circuit minimum minimum load [%]	
power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
• at 40 °C after startup	153 W
• at 50 °C after startup	135 W
• at 60 °C after startup	126 W
power loss [W] at AC at current limitation 350 %	7 000 \W
• at 40 °C during startup	7 903 W
• at 50 °C during startup	6 604 W
• at 60 °C during startup	5 794 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	470 mA
locked-rotor current at close of bypass contact	7.6 A
maximum	
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	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	3
not parameterizable	2
digital output version	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 24 V rated value	1 A
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	393 mm

width	210 mm		
depth	203 mm		
required spacing with side-by-side mounting			
• forwards	10 mm		
backwards	0 mm		
• upwards	0 mm 100 mm		
downwards	75 mm		
• at the side	5 mm		
weight without packaging	9.9 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	busbar connection		
for control circuit	screw-type terminals		
width of connection bar maximum	45 mm		
wire length for thermistor connection			
with conductor cross-section = 0.5 mm ² maximum	50 m		
• with conductor cross-section = 0.5 mm ² maximum	150 m		
• with conductor cross-section = 2.5 mm ² maximum	250 m		
type of connectable conductor cross-sections			
for DIN cable lug for main contacts stranded	2x (50 240 mm²)		
 for DIN cable lug for main contacts finely stranded 	2x (30 240 mm ²)		
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 	$1x (0.5 2.5 mm^2), 2x (0.5 2.5 mm^2)$		
processing	TX (0.5 2.5 mm), 2X (0.5 1.5 mm)		
 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 	14 24 N·m		
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	124 210 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		
• during storage and transport environmental category			
	3K6 (no ice formation, only occasional condensation), 3C3 (no colt		
 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			

manufacture's article number • of the field - usable for Standard Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V - usable for High Faults at inside-delta circuit up o 575/600 V according to UL - usable for High Faults at inside-delta circuit up - of the for High Faults at inside-delta circuit up - of the for High Faults up to 575/600 V - usable for High Faults at inside-delta circuit up - of the for High Faults at inside-delta circuit at 50 °C rated value - at 400/400 V at inside-delta circuit at 50 °C rated value - context rating of auxiliary contacts according to UL - at 600/400 V at inside-delta circuit at 50 °C rated value - context rating of auxiliary contacts according to UL - rate Contact comparetic comparetic comparetil - for efficience Horn the front acc. to IEC 60529 - for efficience Horn the front acc. to IEC 60529 - for efficience Horn the front acc. to IEC 60529 - for efficience Horn the front acc. to IEC 60529 - for efficience Horn the front acc. to IEC 60529 - for efficience Horn Horn Horn Horn Horn Horn Horn Horn						
		e number				
	— usable for Standard Faults up to 575/600 V			Type: Class J / L, max.	1600 A; lq = 30 kA	
a ccording to UL ² 	according to UL			Type: Class J / L, max.	1200 A; Iq = 100 kA	
circuit up to 575600 V according to UL 						
to 575/600 V according to UL Indicator operating power [hp] for 3-phase motors 150 hp at 200/208 V at 50 °C rated value 150 hp at 460/480 V at 50 °C rated value 350 hp at 220/230 V at inside-delta circuit at 50 °C rated value 350 hp at 220/230 V at inside-delta circuit at 50 °C rated value 350 hp at 460/480 V at inside-delta circuit at 50 °C rated value 250 hp at 460/480 V at inside-delta circuit at 50 °C rated value 600 hp at 460/480 V at inside-delta circuit at 50 °C rated value 800-B300 afoty rolated data FPO0; IP20 with cover protection on the front acc. to IEC 60529 IP00; IP20 with cover fouch rolates/ approvals Imger-safe, for vertical contact from the front with cover enclored approvals EMC General Product Approval Imger-safe, for vertical contact from the front sc. to IEC 60529 Up to the front acc. to IEC 60529 Imger-safe, for vertical contact from the front with cover entit companditic compatibility in accordance with IEC 60947-4-2 ertificates/ approvals Imger-safe, for vertical contact from the front motion of conformity for traiting of auxiliary contacts Imger-safe, for vertical contact from the form with cover in accordance with IEC 60947-4-2 Imger-safe, for vertical contact from the form with cover Imger-safe, for ver				Type: Class J / L, max.	1600 A; Iq = 30 kA	
• at 200/208 V at 50 °C rated value 150 hp • at 220/230 V at 50 °C rated value 150 hp • at 460/480 V at 50 °C rated value 350 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 250 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 250 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 250 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 60/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 60/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 60/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 60/480 V at inside-delta circuit at 50 °C rated value 600 hp • at 60/480 V at inside-delta circuit at 50 °C rated value in accordance with IEC 60947-4-2 • at 60/480 V at protection on the front acc. to IEC 60529 in accordance with IEC 60947-4-2 • efficience • efficience • efficience • efficience • efficience • efficience • efficience • efficience • efficience • efficience • efficience			lta circuit up	Type: Class J / L, max.	1200 A; Iq = 100 kA	
 e at 220/230 V at 50 °C rated value e at 460/480 V at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 220/230 V at inside-delta circuit at 50 °C rated value e at 220/230 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 460/480 V at inside-delta circuit at 50 °C rated value e at 200/200 V at inside-delta circuit at 50 °C rated value e at 200/200 V at inside-delta circuit at 50 °C rated value e at 200/200 V at inside-delta circuit at 50 °C rated value e at 200/200 V at inside-delta circuit at 50 °C rated value e at 200 value e at 200 value e at 200/200 V at inside-delta circuit at 50 °C rated value e at 200 v	operating power [hp]	for 3-phase motors				
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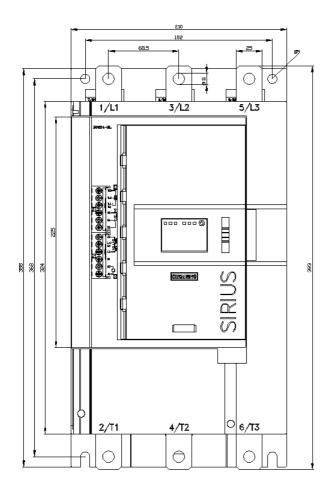
Further information

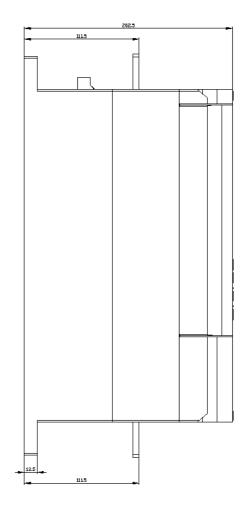
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5247-6TC04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6TC04 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6TC04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5247-6TC04&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6TC04/char

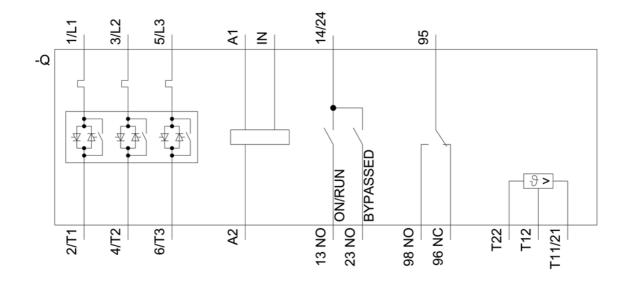
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5247-6TC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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