SIEMENS

Data sheet 3RW5216-3TC04

SIRIUS soft starter 200-480 V 32 A, 24 V AC/DC spring-type terminals Thermistor input



Figure similar

Product brand name	SIRIUS
Product category	Hybrid switching devices
Product designation	Soft starter
Manufacturer's article number	
 of HMI module usable 	3RW5980-0HS00
 of HMI-Modul high-feature usable 	3RW5980-0HF00
• of communication module PROFINET standard	3RW5980-0CS00
usable	
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of circuit breaker usable at 400 V 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta	3RV2032-4JA10; Type of coordination 1, lq = 65 kA, CLASS 10
circuit	
• of circuit breaker usable at 500 V at inside-delta	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
circuit	
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA

• of the gG fuse usable at inside-delta circuit up to 500 V

• of full range R fuse link for semiconductor protection usable up to 690 V

• of back-up R fuse link for semiconductor protection usable up to 690 V

3NA3824-6; Type of coordination 1, Iq = 65 kA

3NE1818-0; Type of coordination 2, Iq = 65 kA

3NE8022-1; Type of coordination 2, Iq = 65 kA

Starting voltage [%] 30 100 % Start-up ramp time of soft starter 0 20 s Product component • is supported HMI-Standard • 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 Insulation voltage 600 V • rated value 600 V Degree of pollution 3 Impulse voltage rated value 6 kV Blocking voltage of the thyristor maximum 1 600 V Service factor 1 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 kV • between main and auxiliary circuit 600 V Protection class IP IP00; IP20 with additional terminal covers for vertical touching from the front Usage category acc. to IEC 60947-4-2 AC 53a 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 Reference code acc. to DIN EN 81346-2 Q	General technical data	
Start-up ramp time of soft starter Product component • is supported HMI-Standard • is supported HMI-High Feature Product feature integrated bypass contact system Number of controlled phases Trip class CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 Insulation voltage • rated value 600 V Degree of pollution Impulse voltage rated value Blocking voltage of the thyristor maximum 1 600 V Service factor Surge voltage resistance rated value 600 V Protection class IP IP00; IP20 with additional terminal covers for vertical touching from the front Usage category acc. to IEC 60947-4-2 AC 53a Shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Ves Product function • ramp-up (soft starting) • ramp-down (soft stop) • adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • reside-delta circuit Ves Tyes Tyes A PTC or Klixon / Thermoclick Yes Tyes Type A PTC or Klixon / Thermoclick Yes Tyes Type A PTC or Klixon / Thermoclick		30 100 %
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Blocking voltage of the thyristor maximum Service factor Surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit Frotection class IP IP00; IP20 with additional terminal covers for vertical touching from the front Usage category acc. to IEC 60947-4-2 AC 53a 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 Reference code acc. to DIN EN 81346-2 Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit 1 600 V 1 72	Degree of pollution	3
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Surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit 600 V Protection class IP IP00; IP20 with additional terminal covers for vertical touching from the front Usage category acc. to IEC 60947-4-2 AC 53a 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 Q Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit 6 kV Reference code acc. to DIN EN 81346-2 Q Yes Yes Yes Yes • Adjustable current limitation Yes Yes • Pull motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes	Blocking voltage of the thyristor maximum	1 600 V
maximum permissible voltage for safe isolation	Service factor	1
between main and auxiliary circuit Protection class IP IP00; IP20 with additional terminal covers for vertical touching from the front AC 53a 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 Reference code acc. to DIN EN 81346-2 Q Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit • inside-delta circuit PC 53a IP00; IP20 with additional terminal covers for vertical touching from the front PC 53a PC 53a PC 53a PC 54 PC 55 PC 55 PC 55 PC 56 PC 57 PC 67 PC 67 PC 67 PC 67 PC 76 P	Surge voltage resistance rated value	6 kV
Protection class IP IP00; IP20 with additional terminal covers for vertical touching from the front AC 53a 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 Reference code acc. to DIN EN 81346-2 Q Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit PAC 53a IP00; IP20 with additional terminal covers for vertical touching from the front AC 53a AC 53a Shock resistance 15 mm to 6 Hz; 2g to 500 Hz Q Product function • Yes • amp-down (soft stop) Yes • Yes • Adjustable current limitation • yes • Intrinsic device protection • Evaluation of thermistor motor protection • Evaluation of thermistor motor protection • Evaluation of thermistor motor protection • inside-delta circuit Yes	maximum permissible voltage for safe isolation	
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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 Reference code acc. to DIN EN 81346-2 Q Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • Evaluation of thermistor motor protection • inside-delta circuit 15 mm to 6 Hz; 2g to 500 Hz Q Yes Yes Yes Yes Yes Yes • Yes • Yes • Adjustable current limitation Yes • pump ramp down Yes • Intrinsic device protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes	Protection class IP	
Vibration resistance Reference code acc. to DIN EN 81346-2 Q Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit 15 mm to 6 Hz; 2g to 500 Hz Q Yes Yes Yes Yes Yes Yes Yes	Usage category acc. to IEC 60947-4-2	AC 53a
Reference code acc. to DIN EN 81346-2 Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit Q Yes Yes Yes Yes Yes Yes Yes	Shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
Product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • Evaluation of thermistor motor protection • inside-delta circuit Yes Yes Yes Yes Yes Yes Yes Ye	Vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
 ramp-up (soft starting) ramp-down (soft stop) Soft Torque Adjustable current limitation pump ramp down Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	Reference code acc. to DIN EN 81346-2	Q
 ramp-down (soft stop) Soft Torque Adjustable current limitation pump ramp down Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes Yes Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	Product function	
 Soft Torque Adjustable current limitation pump ramp down Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	ramp-up (soft starting)	Yes
 Adjustable current limitation pump ramp down Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	ramp-down (soft stop)	Yes
 pump ramp down Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	Soft Torque	Yes
 Intrinsic device protection motor overload protection Evaluation of thermistor motor protection inside-delta circuit Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes 	 Adjustable current limitation 	Yes
 motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) Evaluation of thermistor motor protection inside-delta circuit Yes; Type A PTC or Klixon / Thermoclick Yes 	• pump ramp down	Yes
electronic motor overload protection) • Evaluation of thermistor motor protection • inside-delta circuit electronic motor overload protection) Yes; Type A PTC or Klixon / Thermoclick Yes	Intrinsic device protection	Yes
• inside-delta circuit Yes	motor overload protection	
	 Evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
	• inside-delta circuit	Yes
Auto-reset Yes		Yes
Manual RESET Yes		

• remote reset	Yes; By turning off the control supply voltage
• communication function	Yes
• via software configurable	Yes
• firmware update	Yes
• removable terminal for control circuit	Yes
analog output	No

32 A
28.4 A
26 A
55.4 A
49 A
45 A
200 480 V
200 480 V
-15 %
10 %
-15 %
10 %
7.5 kW
15 kW
15 kW
22 kW
50 Hz
60 Hz
-10 %
10 %
14 A
24.2 A
15 %; Relative to smallest settable le
22 W

• at 50 °C to power-up	21 W
• at 60 °C to power-up	20 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 the by-pass mode operating rated value	360 mA
Starting current at close of by-pass contact maximum	0.75 A
Inrush current peak at connect of control supply voltage maximum	3.3 A
Duration of inrush current peak at connect 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
• not parameterizable	2
Digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)

Number of inputs for thermistor connection

1; Type A PTC or Klixon / Thermoclick

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° rotatable, with vertical
	mounting surface +/- 22.5° tiltable to the front and back
Mounting type	screw fixing
Height	275 mm
Width	170 mm
Depth	152 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
Installation altitude at height above sea level	5 000 m; Derating as of 1000 m, see catalog
maximum	
Weight without packaging	2.3 kg

screw-type terminals
spring-loaded terminals
2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
2x (24 16)
2x (24 16)
800 m
100 m
1 000 m

Ambient conditions	
Ambient temperature	
during operation	-25 +60 °C
 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 60947-1	CISPR11, ambience A (industrial sector)

Communication/ Protocol	
Communication module is supported	
 PROFINET standard 	Yes
Modbus TCP	Yes
• PROFIBUS	Yes

UL/CSA ratings	
Manufacturer's article number	
 of the fuse usable up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 125 A; Standard fault, Iq = 5 kA
 of the fuse usable at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 125 A
Operating power [hp] for three-phase motors	
• at 200/208 V at 50 °C rated value	7.5 hp
• at 220/230 V at 50 °C rated value	10 hp
• at 460/480 V at 50 °C rated value	20 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	15 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	15 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	30 hp
Contact rating of auxiliary contacts according to UL	R300-B300









Declaration of

Conformity

Confirmation

other

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

General Product Approval

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5216-3TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5216-3TC04

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

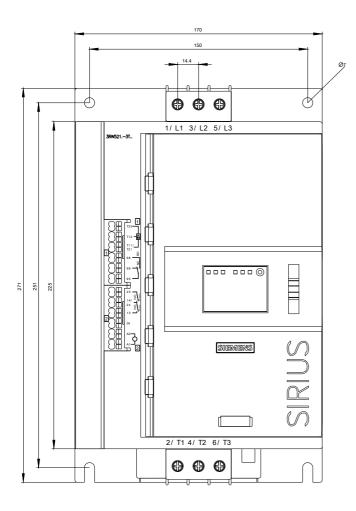
https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-3TC04

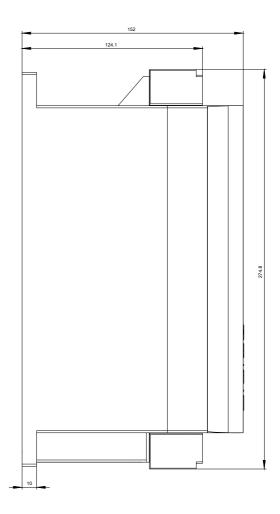
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5216-3TC04&lang=en

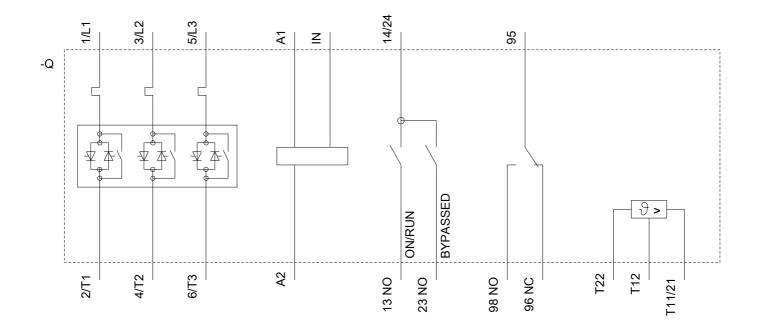
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-3TC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5216-3TC04&objecttype=14&gridview=view1







last modified: 07/04/2018