SIEMENS

Data sheet

3RW5235-6TC14

SIRIUS soft starter 200-480 V 143 A, 110-250 V AC Screw 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 usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2325-7MN32-0AA0; 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 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1227-0; Type of coordination 2, Iq = 65 kA

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

General technical data	
Starting voltage [%]	30 100 %
Start-up ramp time of soft starter	0 20 s
Product component	
 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
Insulation voltage	
• rated value	600 V
Degree of pollution	3
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	
 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
Product function	Yes
• ramp-up (soft starting)	
• 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
 via software configurable 	Yes

• firmware update	Yes
 removable terminal for control circuit 	Yes
 analog output 	No
Power Electronics Operating current	
	143 A
• at 40 °C rated value	128 A
• at 50 °C rated value	
• at 60 °C rated value	118 A
Operating current at inside-delta circuit	240.4
• at 40 °C rated value	248 A
• at 50 °C rated value	222 A
• at 60 °C rated value	204 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 three-phase motors	
• at 230 V at 40 °C rated value	37 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	75 kW
 at 400 V at 40 °C rated value 	75 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	132 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	
• minimum	68 A
• at inside-delta circuit minimum	118 A
Minimum load [%]	15 %; Relative to smallest settable le
Power loss [W] for rated value of the current at AC	
● at 40 °C to power-up	55 W
● at 50 °C to power-up	50 W
• at 60 °C to power-up	47 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	-15 %
voltage at AC at 50 Hz	-10 /0
Relative positive tolerance of the control supply	10 %
voltage at AC at 50 Hz	
Relative negative tolerance of the control supply	-15 %
voltage at AC at 60 Hz	
Relative positive tolerance of the control supply	10 %
voltage at AC at 60 Hz	
Control supply voltage frequency	50 60 Hz
Relative negative tolerance of the control supply	-10 %
voltage frequency	
Relative positive tolerance of the control supply voltage frequency	10 %
Control supply current in standby mode rated value	30 mA
Holding current in the by-pass mode operating rated	75 mA
value	75 HA
Starting current at close of by-pass contact maximum	2.5 A
Inrush current peak at connect of control supply	12.2 A
voltage maximum	
Duration of inrush current peak at connect of control	2.2 ms
supply voltage	
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
nputs/ Outputs	
Number of digital inputs	1
Number of digital outputs	3

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	306 mm

2

0

3 A

1 A

• not parameterizable

Number of inputs for thermistor connection

at AC-15 at 250 V rated valueat DC-13 at 24 V rated value

Switching capacity current of the relay outputs

Digital output version

Number of analog outputs

2 normally-open contacts (NO) / 1 changeover contact (CO)

1; Type A PTC or Klixon / Thermoclick

Depth 203 mm Required spacing with side-by-side mounting • forwards 10 mm • Backwards 00 mm • Backwards 00 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm Installation altitude at height above sea level maximum 66 kg Weight without packaging 66 kg Connections/Terminals screw-type terminals • for control circuit screw-type terminals • for control circuit screw-type terminals • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded 2x (16 95 mm ²) Type of connectable conductor cross-sections at AWG conductors for control circuit 2x (25 120 mm ²) • for DIN cable lug for main contacts finely stranded 2x (20 12), 2x (20 14) Wire length • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • betwe	Width	185 mm
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Communication module is supported • PROFINET standard Yes • Modbus TCP Yes	EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
PROFINET standard Yes Modbus TCP Yes	Communication/ Protocol	
• Modbus TCP Yes	Communication module is supported	
	 PROFINET standard 	Yes
PROFIBUS 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. 350 A; Standard fault, Iq = 10 kA
 of the fuse usable at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A
Operating power [hp] for three-phase motors	
• at 200/208 V at 50 °C rated value	40 hp
• at 220/230 V at 50 °C rated value	40 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 	75 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	150 hp
Contact rating of auxiliary contacts according to UL	R300-B300
General Product Approval	Declaration of other Conformity
	Confirmation EG-Konf.

⁻urther information

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5235-6TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-6TC14

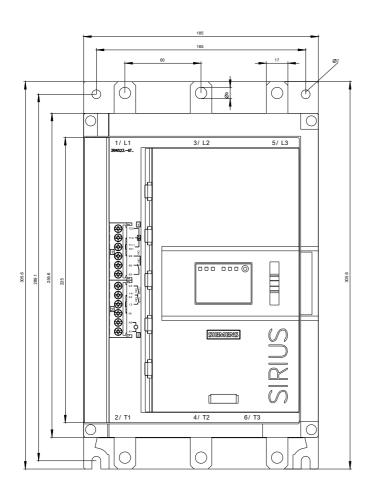
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6TC14

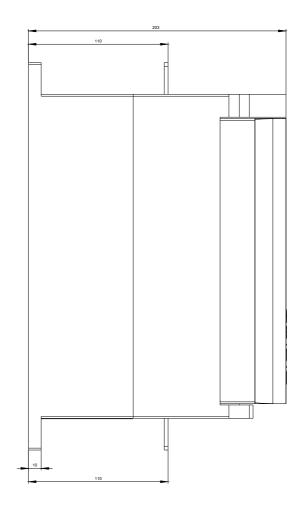
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5235-6TC14&lang=en

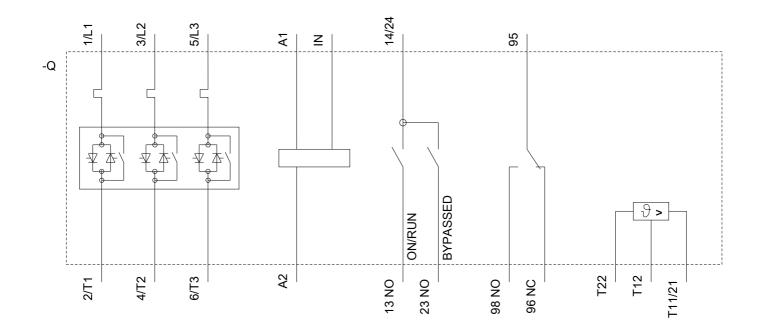
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6TC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5235-6TC14&objecttype=14&gridview=view1







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