SIEMENS

Data sheet 3RW5072-2TB14



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC Spring-loaded terminals Thermistor input

Figure similar

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of the gG fuse usable up to 690 V
- of full range R fuse link for semiconductor protection usable up to 690 V
- \bullet of back-up R fuse link for semiconductor protection usable up to 690 V
- of line contactor usable up to 480 V
- of line contactor usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW50

3RW5980-0HS01

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA

3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA

2x3NA3354-6; Type of coordination 1, Iq = 65 kA3NE1 230-2; Type of coordination 2, Iq = 65 kA

3NE3 333; Type of coordination 2, Iq = 65 kA

3RT1064 3RT1064

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter ramp-down time of soft starter current limiting value [%] adjustable accuracy class according to IEC 61557-12 certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

0 ... 20 s

130 ... 700 %

5 %

Yes

Yes

Yes

No

Yes

Yes Yes

2

CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2

	400
• 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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	600 V
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 according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
product function	V.
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque adjustable current limitation	Yes
adjustable current limitation pump romp down	Yes
pump ramp down intrinsic device protection	Yes Yes
intrinsic device protectionmotor 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
• auto-RESET	Yes
• manual RESET	Yes
remote reset remove reset	Yes; By turning off the control supply voltage Yes
communication function congrating managered value display	
operating measured value displayerror logbook	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
· No. lono.gy	module
voltage ramp	Yes
torque control	No
analog output	No
Power Electronics	
operational current	
at 40 °C rated value	210 A
• at 50 °C rated value	186 A
at 60 °C rated value	170 A
operating voltage	202 402 /
• rated value	200 480 V
relative negative telerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors • at 230 V at 40 °C rated value	55 kW
at 400 V at 40 °C rated value at 400 V at 40 °C rated value	110 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	10 /0
at rotary coding switch on switch position 1	90 A
at rotary coding switch on switch position 2	98 A
at rotary coding switch on switch position 3	106 A
at rotary coding switch on switch position 4	114 A
at rotary coding switch on switch position 5	122 A
	130 A
 at rotary coding switch on switch position 6 	130 A
 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 	130 A 138 A

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 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value 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 width 160 mm depth 282 mm 		
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● at DC-13 at 24 V rated value 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 width 160 mm depth 282 mm	switching capacity current of the relay outputs	
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 height width 160 mm depth 282 mm	 at AC-15 at 250 V rated value 	3 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 height width 160 mm depth 282 mm	at DC-13 at 24 V rated value	1 A
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 230 mm width 160 mm depth 282 mm		
surface +/- 22.5° tiltable to the front and back screw fixing height 230 mm width 160 mm depth 282 mm		
fastening methodscrew fixingheight230 mmwidth160 mmdepth282 mm	mounting position	
height 230 mm width 160 mm depth 282 mm		
width 160 mm depth 282 mm	fastening method	screw fixing
width160 mmdepth282 mm	height	230 mm
depth 282 mm	_	160 mm
required spacing with side-by-side mounting	•	LOZ IIIII
	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	7.3 kg

Connections/ Terminals

type of electrical connection

- for main current circuit
- for control circuit

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

- for main contacts for box terminal using the front clamping point solid
- for main contacts for box terminal using the front clamping point finely stranded with core end processing
- for main contacts for box terminal using the front clamping point finely stranded without core end processing
- for main contacts for box terminal using the front clamping point stranded
- at AWG cables for main contacts for box terminal using the front clamping point
- for main contacts for box terminal using the back clamping point solid
- at AWG cables for main contacts for box terminal using the back clamping point
- for main contacts for box terminal using both clamping points solid
- for main contacts for box terminal using both clamping points finely stranded with core end processing
- for main contacts for box terminal using both clamping points finely stranded without core end processing
- for main contacts for box terminal using both clamping points stranded
- for main contacts for box terminal using the back clamping point finely stranded with core end processing
- for main contacts for box terminal using the back clamping point finely stranded without core end processing
- for main contacts for box terminal using the back clamping point stranded

type of connectable conductor cross-sections

- at AWG cables for main current circuit solid
- for DIN cable lug for main contacts stranded
- for DIN cable lug for main contacts finely stranded

type of connectable conductor cross-sections

- for control circuit solid
- for control circuit finely stranded with core end processing
- at AWG cables for control circuit solid
- at AWG cables for control circuit finely stranded with core end processing

wire length

- between soft starter and motor maximum
- at the digital inputs at AC maximum

tightening torque

- for main contacts with screw-type terminals
- for auxiliary and control contacts with screw-type terminals

busbar connection

spring-loaded terminals

35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm

50 m 150 m

250 m

95 ... 300 mm²

70 ... 240 mm²

70 ... 240 mm²

95 ... 300 mm²

3/0 ... 600 kcmil

120 ... 240 mm²

250 ... 500 kcmil

min. 2x 70 mm², max. 2x 240 mm²

min. 2x 50 mm², max. 2x 185 mm²

min. 2x 50 mm², max. 2x 185 mm²

min. 2x 70 mm², max. 2x 240 mm²

120 ... 185 mm²

120 ... 185 mm²

120 ... 240 mm²

2/0 ... 500 kcmil 50 ... 240 mm²

70 ... 240 mm²

2x (0.25 ... 1.5 mm²)

2x (0.25 ... 1.5 mm²)

2x (24 ... 16)

2x (24 ... 16)

800 m 1 000 m

14 ... 24 N·m 0.8 ... 1.2 N·m

tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient condition

124 ... 210 lbf·in 7 ... 10.3 lbf·in

installation altitude at height above sea level maximum
ambient temperature

during operation

 during storage and transport environmental category

during operation according to IEC 60721

during storage according to IEC 60721

during transport according to IEC 60721

EMC emitted interference

5 000 m; derating as of 1000 m, see Manual

-25 ... +60 °C; Please observe derating at temperatures of 40 °C or above

-40 ... +80 °C

3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4

2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)

acc. to IEC 60947-4-2: Class A

Communication/ Protocol

mmunication module is supported	
 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 High Faults at 460/480 V according to UL

of the fuse

- usable for Standard Faults up to 575/600 V according to UL

- usable for High Faults up to 575/600 V according to UL

operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value Siemens type: 3VA54, max. 600 A; Iq max = 65 kA

Type: Class L, max. 700 A; Iq = 10 kA

Type: Class L, max. 700 A; Iq = 100 kA

• at 460/480 V at 50 °C rated value

60 hp 60 hp 150 hp

Yes

0.09

SIL1

3 y

9F-6 1/h

Safety related data

protection class IP on the front according to IEC

touch protection on the front according to IEC 60529

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover

ATEX

certificate of suitability

ATEX IECEx

Yes hardware fault tolerance according to IEC 61508 0

relating to ATEX PFDavg with low demand rate according to IEC 61508

relating to ATEX

PFHD with high demand rate according to EN 62061 relating to ATEX

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation









Explosion Protection Certificate





Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation

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=3RW5072-2TB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5072-2TB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-2TB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5072-2TB14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

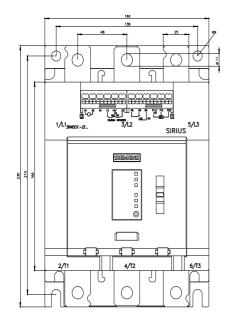
https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-2TB14/char

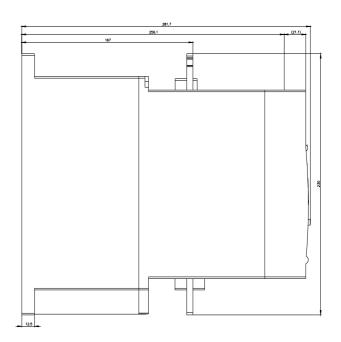
Characteristic: Installation altitude

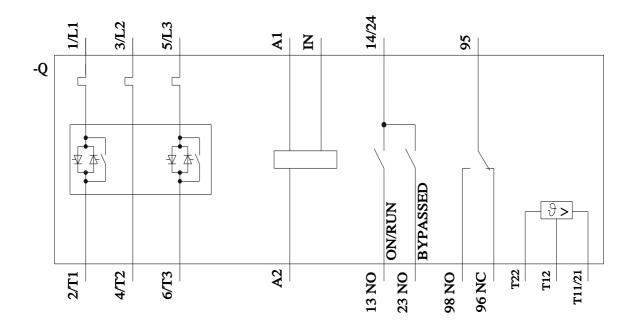
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-2TB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 4/11/2022 🖸