SIEMENS

Data sheet 3RF2310-2AA02



Solid-state contactor 1-phase 3RF2 AC 51 / 10 A / 40 °C 24-230 V / 24 V DC Spring-type terminal

product brand name product designation design of the product product type designation manufacturer's article number

- _3 of the accessories that can be ordered product designation
 - _3 of the accessories that can be ordered

SIRIUS

solid-state contactor single-phase 3RF23

3RF2900-0EA18

converter

General technical data

product function power loss [W] for rated value of the current

• at AC in hot operating state

- at AC in hot operating state per pole
- without load current share typical

insulation voltage rated value degree of pollution

type of voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 reference code according to EN 61346-2 reference code according to IEC 81346-2 **Substance Prohibitance (Date)**

zero-point switching

11 W 11 W 0.4 W 600 V

> DC. 6 kV 15g / 11 ms

2g Q

Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC

• at 50 Hz rated value

• at 60 Hz rated value

operating frequency rated value operating range relative to the operating voltage at AC

• at 50 Hz

• at 60 Hz

operational current

• at AC-51 rated value

• at AC-51 according to IEC 60947-4-3

• according to UL 508 rated value

operational current minimum

rate of voltage rise at the thyristor for main contacts maximum permissible

blocking voltage at the thyristor for main contacts

Q

05/28/2009

1 0

1

24 ... 230 V

24 ... 230 V

50 ... 60 Hz

20 ... 253 V

20 ... 253 V

10.5 A 7.5 A

9.6 A

100 mA

500 V/µs

800 V

maximum permission reverse current of the thyristor derating temperature aurie current resistance rated value 200 A 200		
derating temperature surge current resistance rated value 200 A 200 A 5 200 A	maximum permissible	10 1
surge current resistance rated value 12 value maximum 200 A's Control circuiti Control type of voltage of the control supply voltage at DC rated value at DC rated value b at DC rated value control supply voltage at DC rated value for signal <1> detection at DC full-scale value for signal <1> detection at DC full-scale value for signal <1> detection b at DC full-scale value for signal <1> detection b at DC full-scale value for signal <1> detection b at DC full-scale value for signal <1> detection b at DC full-scale value for signal <1> full-scale value for signal <15 mA control current at DC rated value ON-delay time 1 ms, additionally max, one half-wave ON	•	
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		finger-safe, for vertical contact from the front
installation altitude at height above sea level maximum 1 000 m	Ambient conditions	
	installation altitude at height above sea level maximum	1 000 m

ambient temperature

- · during operation
- during storage

-25 ... +60 °C -55 ... +80 °C

Electromagnetic compatibility

conducted interference

- due to burst according to IEC 61000-4-4
- due to conductor-earth surge according to IEC 61000-4-5
- due to conductor-conductor surge according to IEC 61000-4-5
- due to high-frequency radiation according to IEC 61000-4-6

field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

2 kV / 5 kHz behavior criterion 2

2 kV behavior criterion 2

1 kV behavior criterion 2

140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1

80 MHz ... 1 GHz 10 V/m, behavior criterion 1

4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment

Class B for the domestic, business and commercial environments

Short-circuit protection, design of the fuse link

manufacturer's article number

- of gS fuse for semiconductor protection at NH design usable
- of full range R fuse link for semiconductor protection at cylindrical design usable
- of back-up R fuse link for semiconductor protection at NH design usable
- of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable
- of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable
- of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable

manufacturer's article number of the gG fuse

- at NH design usable
- at cylindrical design 10 x 38 mm usable
- at cylindrical design 14 x 51 mm usable

manufacturer's article number

• of NEOZED fuse usable

3NE1813-0

5SE1316

3NE8015-1

3NC1020

3NC1430

3NC2225

3NA6803

3NW6001-1; These fuses have a smaller rated current than the semiconductor relays

3NW6101-1: These fuses have a smaller rated current than the semiconductor relays

5SE2306: These fuses have a smaller rated current than the semiconductor relays

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other

Railway



Special Test Certificate

Type Test Certificates/Test Report Confirmation



Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RF2310-2AA02

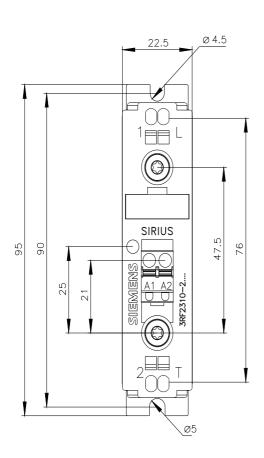
Cax online generator

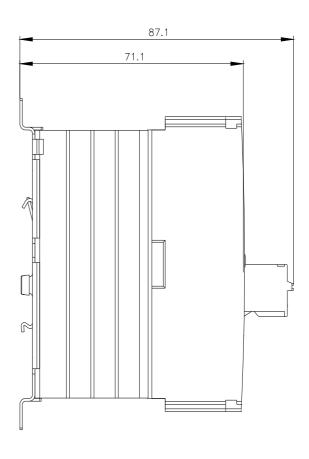
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2310-2AA02$

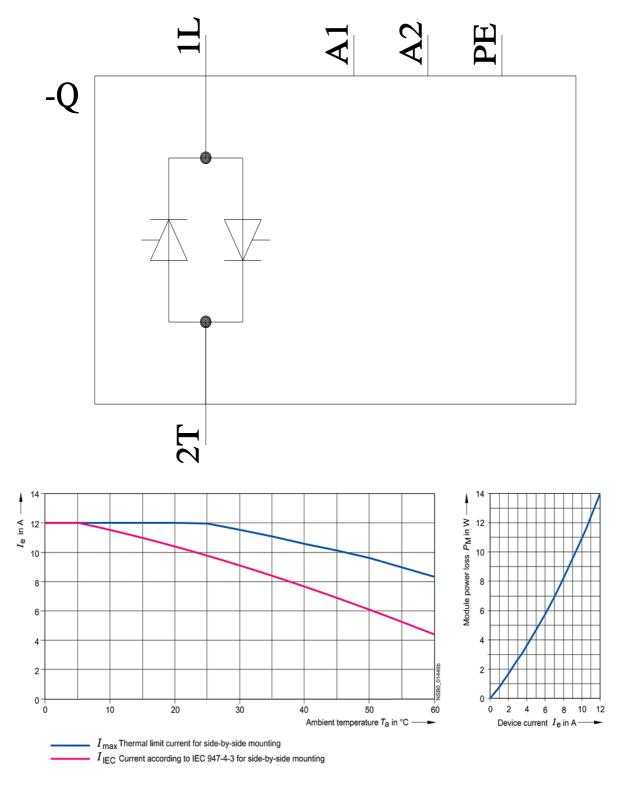
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-2AA02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2310-2AA02&lang=en







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