SIEMENS

Data sheet 3RF2310-2AA04



Solid-state contactor 1-phase 3RF2 AC 51 / 10 A / 40 $^{\circ}\text{C}$ 48-460 V / 24 V DC Spring-type terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
 _3 of the accessories that can be ordered 	3RF2900-0EA18
product designation	
_3 of the accessories that can be ordered	converter
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	11 W
 at AC in hot operating state per pole 	11 W
without load current share typical	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	DC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
• at 50 Hz rated value	48 460 V
at 60 Hz rated value	48 460 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	40 506 V
● at 60 Hz	40 506 V
operational current	
• at AC-51 rated value	10.5 A
at AC-51 according to IEC 60947-4-3	7.5 A
according to UL 508 rated value	9.6 A
operational current minimum	100 mA
rate of voltage rise at the thyristor for main contacts	500 V/μs

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 finely stranded without core end processing for AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable		
 ◆ for AWG cables for auxiliary and control contacts 1x (AWG 20 12) AWG number as coded connectable conductor cross section for main contacts stripped length of the cable ◆ for main contacts ◆ for auxiliary and control contacts 7 mm 7 mm 		
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stripped length of the cable • for main contacts • for auxiliary and control contacts 7 mm 7 mm	ctor cross section for 10 14	
• for main contacts • for auxiliary and control contacts 7 mm 7 mm		
• for auxiliary and control contacts 7 mm		
·		
Safety related data	7 mm	·
		fety related data
protection class IP on the front according to IEC 60529 IP20	g to IEC 60529 IP20	protection class IP on the front according to IEC 60529
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	finger-safe, for vertical contact from the front	ouch protection on the front according to IEC 60529

Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2
 due to high-frequency radiation according to IEC 61000- 4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	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 	<u>3NE1813-0</u>
 of full range R fuse link for semiconductor protection at cylindrical design usable 	5SE1316
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8015-1
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1016
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1420
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2220
manufacturer's article number of the gG fuse	
at NH design usable	<u>3NA6801</u>
• at cylindrical design 10 x 38 mm usable	3NW6001-1: These fuses have a smaller rated current than the semiconductor relays
• at cylindrical design 14 x 51 mm usable	3NW6101-1; These fuses have a smaller rated current than the semiconductor relays
manufacturer's article number	
of NEOZED fuse usable	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



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Confirmation



Vibration and Shock

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)

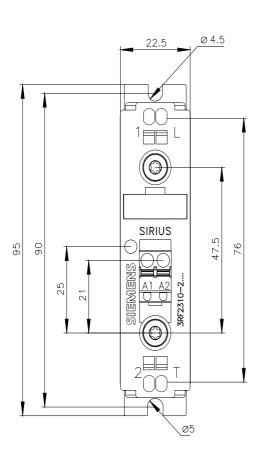
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2310-2AA04

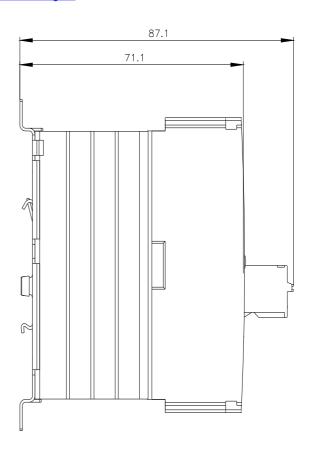
Cax online generator

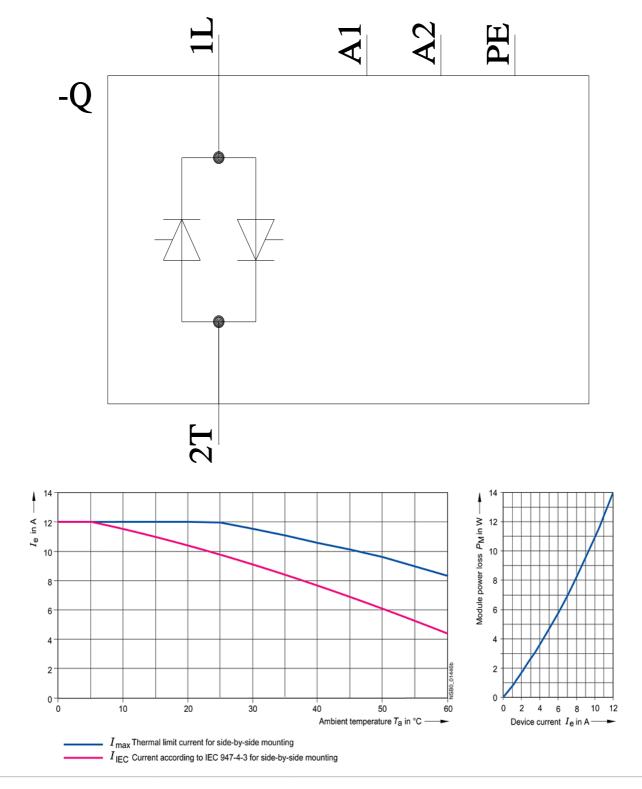
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-2AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-2AA04

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







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