SIEMENS

Data sheet 3RF2310-2AA06



Solid-state contactor 1-phase 3RF2 AC 51 / 10 A / 40 $^{\circ}\text{C}$ 48-600 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	48 600 V
at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
● at 50 Hz	40 660 V
• at 60 Hz	40 660 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	1 000 V/µs

maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor derating temperature 40°C surge current resistance rated value 40°C surge current resistance rated value 40°C control circuit Centrol Type of voltage of the control supply voltage • at DC full-scale value for signal <1> detection • at DC full-scale value for signal <1> detection • at DC full-scale value for signal <1> detection • at DC full-scale value for signal <1> detection • at DC full-scale value for signal <1> detection • at DC full-scale value for signal <1> detection • at DC full-scale value for signal voltage • at DC Ontrol current at minimum control supply voltage • at DC ON-delay time 1 sms. additionally max. one half-wave Auxillary circuit. onumber of NC contacts for auxillary contacts 0 unumber of OC contacts for auxillary contacts 0 unumber of NC contacts for auxillary contacts 0 unumber of OC contacts for auxillary contacts 0 unumber of NC contacts for auxillary contac		
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stripped length of the cable • for main contacts 7 mm		10 14
• for main contacts 7 mm		
• for auxiliary and control contacts 7 mm		
·	•	7 mm
Safety related data	related data	
protection class IP on the front according to IEC 60529 IP20	ction class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	n protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
lectromagnetic 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
hort-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 	<u>5SE1316</u>
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE8015-1</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1032
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1440
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2240
manufacturer's article number of the gG fuse	
at NH design usable	3NA6803-6

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

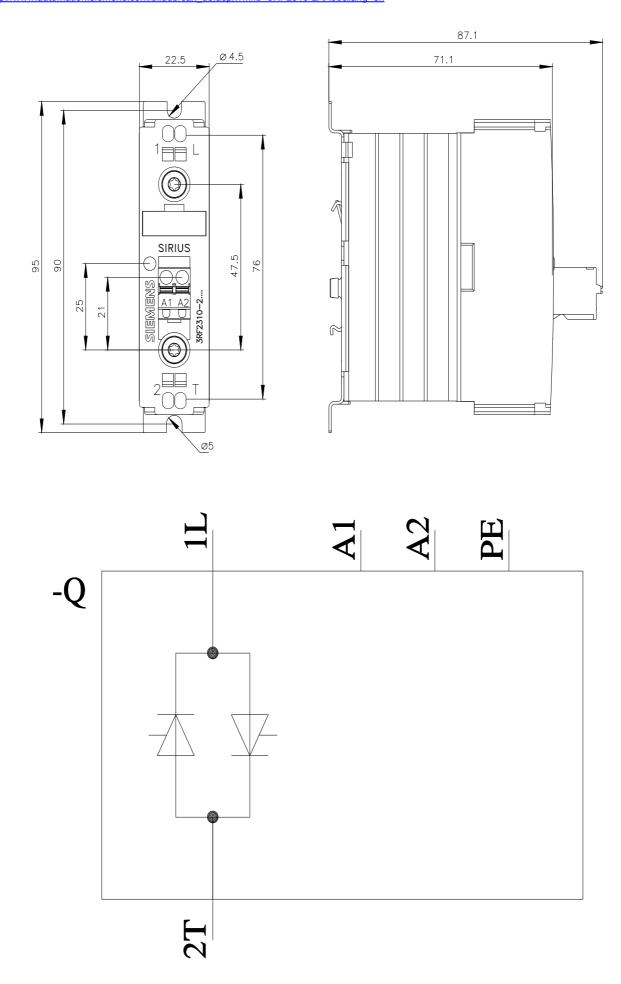
Industry Mall (Online ordering system)

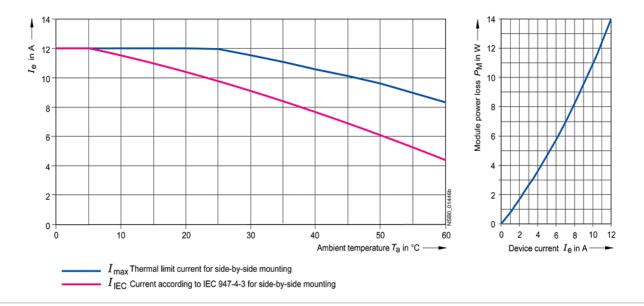
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2310-2AA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-2AA06

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-2AA06





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