SIEMENS

Data sheet 3RF2310-2AA24



Solid-state contactor 1-phase 3RF2 AC 51 / 10 A / 40 $^{\circ}\text{C}$ 48-460 V / 110-230 V AC Spring-type terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
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	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	AC
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
	40 400 V
operating frequency rated value	50 60 Hz
operating frequency rated value operating range relative to the operating voltage at AC	
	50 60 Hz 40 506 V
operating range relative to the operating voltage at AC	50 60 Hz
operating range relative to the operating voltage at AC • at 50 Hz	50 60 Hz 40 506 V 40 506 V
operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz	50 60 Hz 40 506 V 40 506 V
operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current	50 60 Hz 40 506 V 40 506 V
operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value	50 60 Hz 40 506 V 40 506 V
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	50 60 Hz 40 506 V 40 506 V 10.5 A 7.5 A
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	50 60 Hz 40 506 V 40 506 V 10.5 A 7.5 A 9.6 A
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	50 60 Hz 40 506 V 40 506 V 10.5 A 7.5 A 9.6 A 100 mA
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	50 60 Hz 40 506 V 40 506 V 10.5 A 7.5 A 9.6 A 100 mA 500 V/μs

Variable of voltage of the control supply voltage AC	surge current resistance rated value	200 A	
Spee of voltage of the control supply voltage at AC		200 A²-s	
	Control circuit/ Control		
	type of voltage of the control supply voltage	AC	
* at 80 Hz control supply voltage frequency			
Control supply voltage frequency		110 230 V	
* 1 rated value * 2 rated value * 2 rated value * 2 rated value * 80 Hz	• at 60 Hz	110 230 V	
* 1 rated value * 2 rated value * 2 rated value * 2 rated value * 80 Hz	control supply voltage frequency		
		50 Hz	
	• 2 rated value	60 Hz	
■ 16 OHE full-scale value for signal < I> control supply voltage	control supply voltage at AC		
■ al AC initial value for signal <1> detection 90 V	at 50 Hz full-scale value for signal<0> recognition	40 V	
symmetrical line frequency tolerance 5Hz control current at minimum control supply voltage	 at 60 Hz full-scale value for signal<0> recognition 	40 V	
symmetrical line frequency tolerance 5 Hz control current at minimum control supply voltage 2 mA control current at AC rated value 15 mA ON-delay time 40 ms; additionally max, one half-wave OFF-delay time 40 ms; additionally max, one half-wave Auxiliary circuit 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 state bryside mounting contacts for auxiliary and control circuit Screw fixing and snap-on mounting on standard mounting rail 35 mm according to ECC 60715 design of the thread of the screw for securing the equipment M4 4 design of the thread of the screw for securing the equipment M4 4 upper of contacts 95 mm 4 4 4 design of the thread of the screw for securing the equipment 95 mm 4 4 4 4 4 4	control supply voltage		
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• at AC 2 mA control current at AC rated value 15 mA ON- delay time 40 ms; additionally max. one half-wave OFF-delay time 40 ms; additionally max. one half-wave Auxiliary circuit	symmetrical line frequency tolerance	5 Hz	
control current at AC rated value 40 ms; additionally max. one half-wave 60 FF-delay time 40 ms; additionally max. one half-wave 60 FF-delay time 40 ms; additionally max. one half-wave 60 FF-delay time 60 mumber of NC contacts for auxiliary contacts 60 mumber of NC contacts for auxiliary contacts 60 mumber of CO co	control current at minimum control supply voltage		
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Abrillary circuit	control current at AC rated value	15 mA	
Abrillary circuit	ON-delay time	40 ms; additionally max. one half-wave	
number of NC contacts for auxillary contacts number of NO contacts for auxillary contacts number of NO contacts for auxillary contacts number of NO contacts for auxillary contacts olicity of main contacts of auxillary and control contacts of auxillary and control contacts of auxillary standed with core end processing of nor AWG cables for main contacts olicity of auxillary and control contacts of or auxillary and control contacts of or auxillary and control contacts of auxillary and control contacts of auxillary and control contacts of auxillary and control cross-sections of nearly stranded with core end processing of new yet stranded with core end processing of new yet stranded with core end processing of auxillary and control cross-sections of new yet and of auxillary and control contacts olicity of auxillary and control contacts of or main contacts	•	40 ms; additionally max. one half-wave	
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts fastening method side-by-side mounting side-by-side side-side-side-side-side-side-side-side-	Auxiliary circuit		
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 Installation mounting/ dimensions screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 design of the thread of the screw for securing the equipment M4 height 95 mm width 22.5 mm depth 88 mm Connections/ Terminals Terminals type of electrical connection 5 pring-loaded terminals of or main current circuit 5 pring-loaded terminals of or main contacts 2 x (0.5 2.5 mm²) - solid 2 x (0.5 2.5 mm²) - finely stranded with core end processing 2 x (0.5 2.5 mm²) - finely stranded without core end processing 2 x (18 14) connectable conductor cross-section for main contacts 0.5 2.5 mm² e finely stranded without core end processing 0.5 2.5 mm² e finely stranded without core end processing 0.5 2.5 mm² e finely stranded without core end processing 0.5 2.5 mm² e finely stranded with core end processing 0.5 2.5 mm² e finely stranded with core end processing	number of NC contacts for auxiliary contacts	0	
Installation/ mounting/ dimensions fastening method	-	0	
Installation/ mounting/ dimensions fastening method	•	0	
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International Content of the screw for securing the equipment M4	fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according	
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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 Safety related data		1x (AWG 20 12)	
stripped length of the cable • for main contacts • for auxiliary and control contacts 7 mm 7 mm Safety related data	AWG number as coded connectable conductor cross section for	10 14	
● for main contacts ● for auxiliary and control contacts 7 mm 7 mm 7 mm Safety related data			
for auxiliary and control contacts 7 mm Safety related data			
Safety related data			
	·	7 mm	
protection class IP on the front according to IEC 60529	Safety related data		
	protection 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		
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		
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 	3NE1813-0		
 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 	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 semiconductorelays		
• at cylindrical design 14 x 51 mm usable	3NW6101-1; These fuses have a smaller rated current than the semiconducto 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 Co	

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other

Railway

UK

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

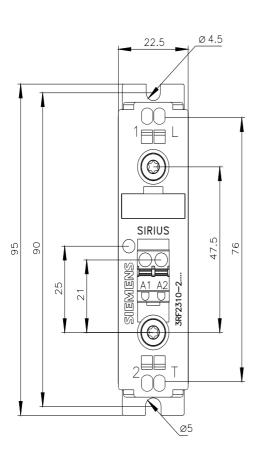
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2310-2AA24

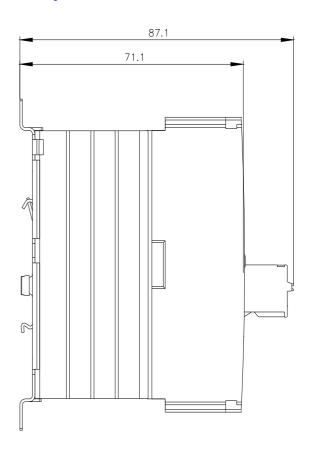
Cax online generator

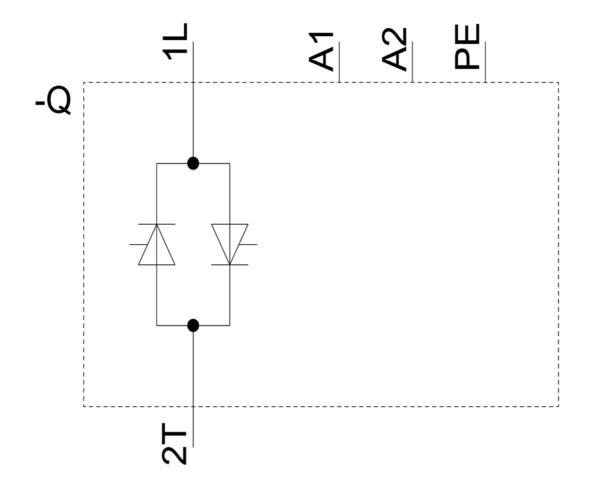
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-2AA24

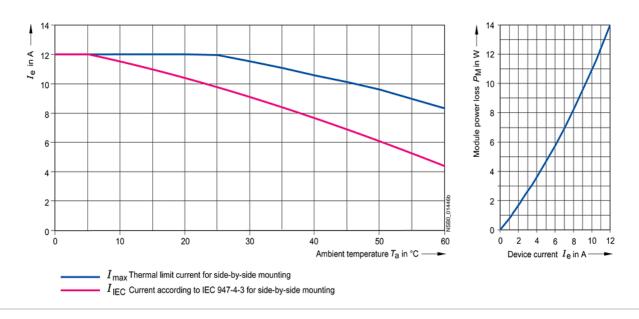
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2310-2AA24&lang=en









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3RF23102AA24