# SIEMENS

#### Data sheet

### 3RF2310-1AA02



Solid-state contactor 1-phase 3RF2 AC 51 / 10.5 A / 40  $^\circ\text{C}$  24-230 V / 24 V DC screw terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0GA13</u>
<ul> <li>_5 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0FA08</u>
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
<ul> <li>_5 of the accessories that can be ordered</li> </ul>	load monitoring, basis
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	11 W
<ul> <li>without load current share typical</li> </ul>	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	24 230 V
● at 60 Hz rated value	24 230 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
● at 50 Hz	20 253 V
• at 60 Hz	20 253 V

operational current			
<ul> <li>at AC-51 rated value</li> </ul>	10.5 A		
<ul> <li>at AC-51 according to IEC 60947-4-3</li> </ul>	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 maximum permissible	500 V/µs		
blocking voltage at the thyristor for main contacts maximum permissible	800 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	200 A		
I2t value maximum	200 A <sup>2</sup> ·s		
Control circuit/ Control			
type of voltage of the control supply voltage	DC		
control supply voltage 1			
at DC rated value	30 V		
• at DC	15 24 V		
control supply voltage			
<ul> <li>at DC initial value for signal &lt;1&gt; detection</li> </ul>	15 V		
<ul> <li>at DC full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V		
control current at minimum control supply voltage			
• at DC	13 mA		
control current at DC rated value	15 mA		
ON-delay time	1 ms; additionally max. one half-wave		
OFF-delay time	1 ms; additionally max. one half-wave		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts	0		
number of CO contacts for auxiliary contacts	0		
Installation/ mounting/ dimensions			
	screw fixing and span-on mounting on standard mounting roll 25 mm according		
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715		
fastening method	to IEC 60715		
fastening method <ul> <li>side-by-side mounting</li> </ul>	to IEC 60715 Yes		
fastening method <ul> <li>side-by-side mounting</li> </ul> design of the thread of the screw for securing the	to IEC 60715 Yes		
fastening method  • side-by-side mounting  design of the thread of the screw for securing the equipment	to IEC 60715 Yes M4		
fastening method <ul> <li>side-by-side mounting</li> </ul> <li>design of the thread of the screw for securing the equipment <ul> <li>height</li> </ul></li>	to IEC 60715 Yes M4 95 mm		
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width	to IEC 60715 Yes M4 95 mm 22.5 mm		
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth	to IEC 60715 Yes M4 95 mm 22.5 mm		
fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals	to IEC 60715 Yes M4 95 mm 22.5 mm		
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit	to IEC 60715 Yes M4 95 mm 22.5 mm 88 mm screw-type terminals		
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts         — solid         — finely stranded with core end processing         • for AWG cables for main contacts         ornnectable conductor cross-section for main contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary and control contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • for AWG cables for auxiliary and control contacts         AWG number as coded connectable conducto	to IEC 60715 Yes M4 95 mm 22.5 mm 88 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12)		

terminals					
lemmas					
tightening torque [lbf·in]					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf·in				
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	4.5 5.3 lbf·in				
design of the thread of the connection screw					
for main contacts	M4				
<ul> <li>of the auxiliary and control contacts</li> </ul>	МЗ				
stripped length of the cable					
for main contacts	7 mm				
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm				
afety 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				
mbient conditions					
installation altitude at height above sea level maximum	1 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C				
<ul> <li>during storage</li> </ul>	-55 +80 °C				
lectromagnetic compatibility					
conducted interference					
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2				
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2				
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2				
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	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					
<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1813-0</u>				
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1316</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8015-1</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> </ul>	<u>3NC1020</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NC1430</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NC2225</u>				
manufacturer's article number of the gG fuse					
<ul> <li>at NH design usable</li> </ul>	<u>3NA6803</u>				
• at cylindrical design 10 x 38 mm usable	<u>3NW6001-1; These fuses have a smaller rated current than the semiconductor</u> relays				
• at cylindrical design 14 x 51 mm usable	<u>3NW6101-1: These fuses have a smaller rated current than the semiconductor</u> relays				
manufacturer's article number					
of NEOZED fuse usable	5SE2306; These fuses have a smaller rated current than the semiconductor relays				
ertificates/ approvals	Declaration of Co				

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Declaration of Con- formity	Test Certificates		other		Railway
CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Confirmation</u>	UDE VDE	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=3RF2310-1AA02

Cax online generator

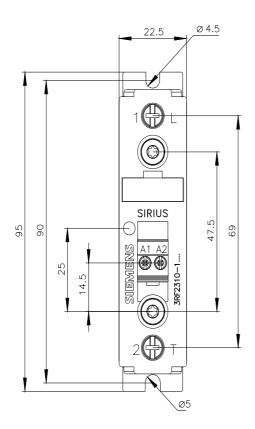
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-1AA02

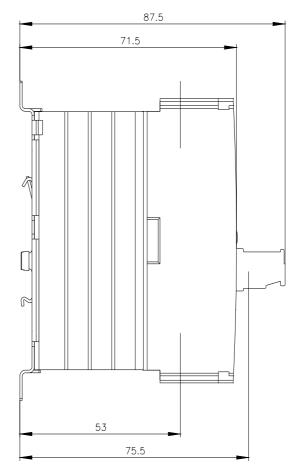
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

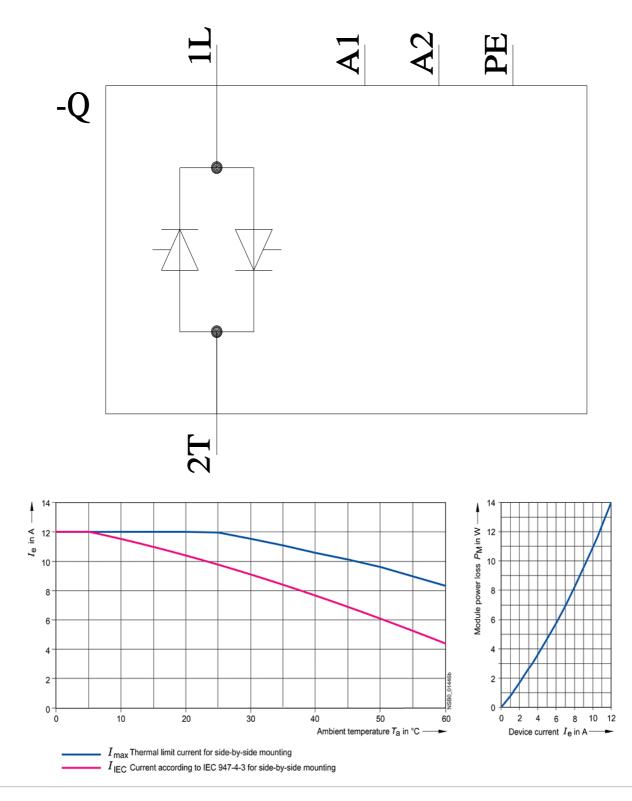
https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-1AA02

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2310-1AA02&lang=en







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