## SIEMENS

## Data sheet

## 3RF2320-1DA04



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40  $^\circ C$  48-460 V / 24 V DC short circuit-proof with B miniature circuit breaker

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>3RF2920-0GA16</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	short-circuit resistant with B-automatic device			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	20 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	20 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				
<ul> <li>of the operating voltage</li> </ul>	AC			
<ul> <li>of the control supply voltage</li> </ul>	DC			
surge voltage resistance of main circuit rated value	6 kV			
protection class IP	IP20			
protection class IP on the front according to IEC 60529	IP20			
shock resistance according to IEC 60068-2-27	15g / 11 ms			
vibration resistance according to IEC 60068-2-6	2g			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	05/28/2009			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4			
Weight	0.18 kg			
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			
type of voltage of the operating voltage	AC			

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				
<ul> <li>at AC-51 rated value</li> </ul>	20 A			
<ul> <li>at AC-51 according to IEC 60947-4-3</li> </ul>	13.2 A			
according to UL 508 rated value	17.6 A			
operational current minimum	500 mA			
operational current of the MCB at AC rated value	20 A			
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs			
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V			
reverse current of the thyristor	10 mA			
derating temperature	40 °C			
surge current resistance rated value	1 150 A			
I2t value maximum	6 600 A²·s			
Control circuit/ Control				
type of voltage of the control supply voltage	DC			
control supply voltage 1 at DC rated value maximum permissible	30 V			
control supply voltage 1 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				
type of switching contact	normally open contact (NO)			
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				
fastening method side-by-side mounting	Yes			
fastening method	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	120 mm			
Connections/ Terminals				
product component removable terminal for auxiliary and control circuit	Yes			
type of electrical connection				
for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)			
— finely stranded with core end processing	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>			
• for AWG cables for main contacts	2x (14 10)			
connectable conductor cross-section for main contacts				
solid or stranded	1.5 6 mm²			

<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²			
type of connectable conductor cross-sections				
for auxiliary and control contacts				
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
<ul> <li>— finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )			
— finely stranded without core end processing	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )			
• for AWG cables for auxiliary and control contacts	1x (AWG 20 12)			
AWG number as coded connectable conductor cross section for main contacts	10 14			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m			
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.5 0.6 N·m			
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>	M3			
stripped length of the cable				
for main contacts	7 mm			
for auxiliary and control contacts	7 mm			
	7 1111			
Electrical Safety protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front			
	4.000			
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				
conducted interference				
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2			
	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2			
• due to burst according to IEC 61000-4-4				
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC</li> </ul>	2 kV behavior criterion 2			
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>	2 kV behavior criterion 2 1 kV behavior criterion 2			
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	<ul> <li>2 kV behavior criterion 2</li> <li>1 kV behavior criterion 2</li> <li>140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1</li> </ul>			
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<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> <li>field-based interference according to IEC 61000-4-3</li> <li>electrostatic discharge according to IEC 61000-4-2</li> <li>conducted HF interference emissions according to</li> </ul>	<ul> <li>2 kV behavior criterion 2</li> <li>1 kV behavior criterion 2</li> <li>140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1</li> <li>80 MHz 1 GHz 10 V/m, behavior criterion 1</li> <li>4 kV contact discharging / 8 kV air discharging, behavior criterion 2</li> </ul>			
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<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> <li>field-based interference according to IEC 61000-4-3</li> <li>electrostatic discharge according to IEC 61000-4-2</li> <li>conducted HF interference emissions according to CISPR11</li> <li>field-bound HF interference emission according to CISPR11</li> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	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 3NE1814-0 5SE1325 3NE8015-1 3NC1032			
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<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> <li>field-based interference according to IEC 61000-4-3</li> <li>electrostatic discharge according to IEC 61000-4-2</li> <li>conducted HF interference emissions according to CISPR11</li> <li>field-bound HF interference emission according to CISPR11</li> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at NH design usable</li> </ul>	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 3NE1814-0 5SE1325 3NE8015-1 3NC1032 3NC1450 3NC2263 3NA6807 3NW6005-1: These fuses have a smaller rated current than the semiconductor			

			<u>relays</u>		
manufacturer's article r	number				
<ul> <li>of DIAZED fuse</li> </ul>	usable		<u>5SB2711</u>		
<ul> <li>of NEOZED fuse</li> </ul>	eusable		<u>5SE2320</u>		
Approvals Certificates					
General Product App	roval				EMV
CE EG-Konf.	UK CA	<u>Confirmatio</u>		EHC	RCM
Test Certificates		other		Railway	Environment
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	<u>Confirmatio</u>		Special Test Certific- ate	Environmental Con- firmations

## Further information

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=3RF2320-1DA04

Cax online generator

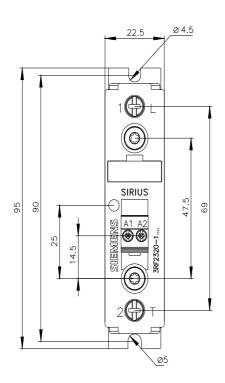
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1DA04

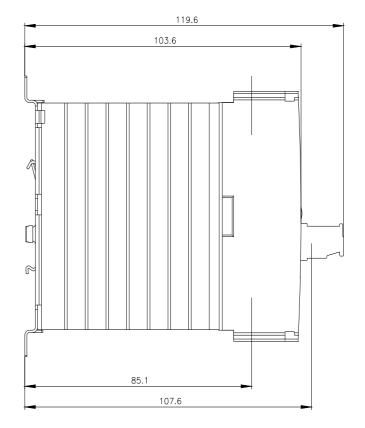
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

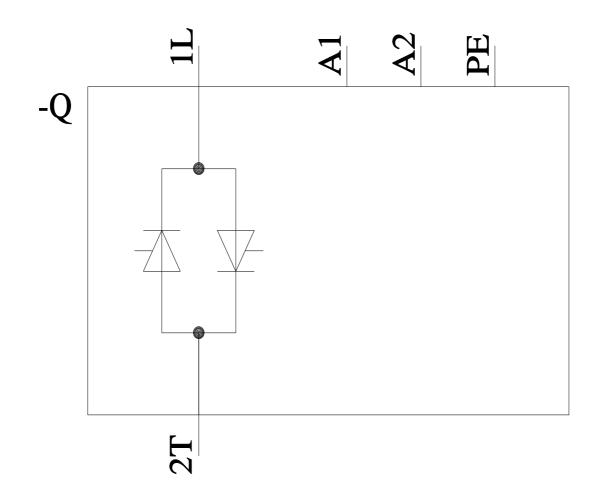
https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1DA04

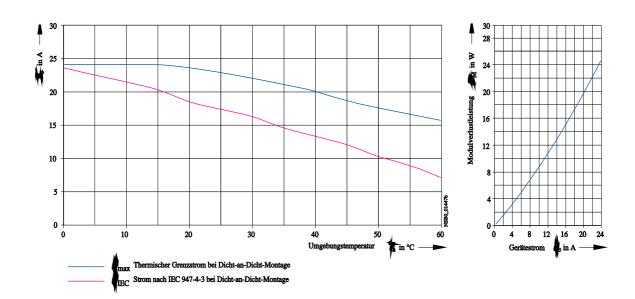
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2320-1DA04&lang=en









last modified:

8/12/2024 🖸