

Heat current monitoring Current range 32 A / 40 °C 400-600 V / 24 V  
AC/DC for semiconductor relay / contactor Remote teach/without  
control connector Customer-specific version



<b>product brand name</b>	SIRIUS
<b>product designation</b>	heating current monitoring
<b>Manufacturer's article number</b>	
• _1 / of the accessories that can be ordered	<a href="#">3RF2900-0RA88</a>
<b>Product designation</b>	
• _1 / of the accessories that can be ordered	sealable end cover

General technical data	
<b>product function</b>	solid-state relay / solid-state contactor 3RF2 with standby
• insulation voltage / rated value	600 V
<b>degree of pollution</b>	3
<b>protection class IP</b>	IP20
shock resistance / acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance / acc. to IEC 60068-2-6	2g
<b>reference code / acc. to DIN EN 81346-2</b>	B

Main circuit	
<b>number of poles / for main current circuit</b>	0
<b>Number of NO contacts / for main contacts</b>	0
<b>Number of NC contacts / for main contacts</b>	0
operating voltage / at AC	

<ul style="list-style-type: none"> <li>• at 50 Hz / rated value</li> </ul>	400 ... 600 V
<ul style="list-style-type: none"> <li>• at 60 Hz / rated value</li> </ul>	400 ... 600 V
<b>operating frequency / rated value</b>	50 ... 60 Hz
<b>Relative symmetrical tolerance / of the operating frequency</b>	10 %
<b>Operating range relative to the operating voltage / at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>	340 ... 660 V
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>	340 ... 660 V
<ul style="list-style-type: none"> <li>• Operating current / at AC-51 / rated value</li> </ul>	32 A
<b>Derating temperature</b>	40 °C

### Control circuit/ Control

<b>Control supply voltage / 1</b>	
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	24 V
<b>Control supply voltage / at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz / Full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
<ul style="list-style-type: none"> <li>• at 60 Hz / Full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
<b>Control supply voltage</b>	
<ul style="list-style-type: none"> <li>• at DC / Full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
<b>Symmetrical line frequency tolerance</b>	5 Hz
<b>Control current / at minimum control supply voltage</b>	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	2 mA
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	2 mA
Control current / at AC / rated value	40 mA
Control current / at DC / rated value	40 mA
<b>number of NC contacts / for auxiliary contacts</b>	1
<b>number of NO contacts / for auxiliary contacts</b>	0
number of CO contacts / for auxiliary contacts	0

### Installation/ mounting/ dimensions

<b>mounting type</b>	clip-on
<ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>	Yes
<b>height</b>	111.5 mm
<b>width</b>	45 mm
<b>depth</b>	69.5 mm
<b>installation altitude / at height above sea level / maximum</b>	1 000 m

### Connections/ Terminals

<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals

<b>Type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded / with core end processing</li> <li>— finely stranded / without core end processing</li> </ul> </li> <li>• at AWG conductors / for auxiliary and control contacts</li> </ul>	<p>1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.0 mm<sup>2</sup>)</p> <p>1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.0 mm<sup>2</sup>)</p> <p>1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.0 mm<sup>2</sup>)</p> <p>1x (AWG 20 ... 12)</p>
<ul style="list-style-type: none"> <li>• Tightening torque / for auxiliary and control contacts / with screw-type terminals</li> </ul>	0.5 ... 0.6 N·m
<b>Tightening torque [lbf·in]</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control contacts / with screw-type terminals</li> </ul>	4.5 ... 5.3 lbf·in
<b>design of the thread / of the connection screw</b>	
<ul style="list-style-type: none"> <li>• of the auxiliary and control contacts</li> </ul>	M3
<b>Wire stripping length / of the cable</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control contacts</li> </ul>	7 mm
<b>Ambient conditions</b>	
<ul style="list-style-type: none"> <li>• ambient temperature / during operation</li> <li>• ambient temperature / during storage</li> </ul>	<p>-25 ... +60 °C</p> <p>-55 ... +80 °C</p>
<b>Electromagnetic compatibility</b>	
<ul style="list-style-type: none"> <li>• conducted interference / due to burst / acc. to IEC 61000-4-4</li> <li>• Conducted interference / due to conductor-earth surge / acc. to IEC 61000-4-5</li> <li>• Conducted interference / due to conductor-conductor surge / acc. to IEC 61000-4-5</li> <li>• conducted interference / due to high-frequency radiation / acc. to IEC 61000-4-6</li> </ul>	<p>2 kV / 5 kHz behavior criterion 2</p> <p>2 kV behavior criterion 2</p> <p>1 kV behavior criterion 2</p> <p>140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1</p>
<b>electrostatic discharge / acc. to IEC 61000-4-2</b>	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
<b>Conducted HF-interference emissions / acc. to CISPR11</b>	Class A for industrial environment
<b>Field-bound HF-interference emission / acc. to CISPR11</b>	Class B for the domestic, business and commercial environments
<b>Certificates/ approvals</b>	

General Product Approval	EMC	Declaration of Conformity
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[Miscellaneous](#)

Test Certificates	other
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

### Further information

**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=3RF2932-0JA16-1KK0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2932-0JA16-1KK0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2932-0JA16-1KK0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RF2932-0JA16-1KK0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2932-0JA16-1KK0&lang=en)



