

Load monitoring basis Current range 20 A / 40 °C Control voltage 24 V DC for semiconductor relay / contactor Output NO



<b>product brand name</b>	SIRIUS
<b>product designation</b>	load monitoring, basis
<b>manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• _1 / of the accessories that can be ordered</li> </ul>	<a href="#">3RF2900-0RA88</a>
<b>product designation</b>	
<ul style="list-style-type: none"> <li>• _1 / of the accessories that can be ordered</li> </ul>	sealable end cover

### General technical data

<b>product function</b>	solid-state relay / solid-state contactor 3RF2
<b>insulation voltage</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	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

<b>operating frequency / rated value</b>	50 ... 60 Hz
<b>relative symmetrical tolerance / of the operating frequency</b>	10 %
<b>operating current</b>	
• at AC-51 / rated value	20 A
<b>derating temperature</b>	40 °C

#### Control circuit/ Control

<b>control supply voltage / 1</b>	
• at DC	24 V
<b>control supply voltage</b>	
• at DC / full-scale value for signal<0> recognition	5 V
<b>control current / at minimum control supply voltage</b>	
• at DC	2 mA
control current / at DC / rated value	25 mA
<b>number of NC contacts / for auxiliary contacts</b>	0
<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
• side-by-side mounting	Yes
<b>height</b>	101.5 mm
<b>width</b>	22.5 mm
<b>depth</b>	67 mm

#### Connections/ Terminals

<b>type of electrical connection</b>	
• for auxiliary and control current circuit	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• for auxiliary and control contacts	
— solid	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
— finely stranded / with core end processing	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> )
• at AWG conductors / for auxiliary and control contacts	1x (AWG 20 ... 12)
<b>tightening torque</b>	
• for auxiliary and control contacts / with screw-type terminals	0.5 ... 0.6 N·m
<b>tightening torque [lbf·in]</b>	
• for auxiliary and control contacts / with screw-type terminals	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

### Ambient conditions

installation altitude / at height above sea level / maximum	1 000 m
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-55 ... +80 °C

### Electromagnetic compatibility

<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst / acc. to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2
<ul style="list-style-type: none"> <li>• due to conductor-earth surge / acc. to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2
<ul style="list-style-type: none"> <li>• due to conductor-conductor surge / acc. to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2
<ul style="list-style-type: none"> <li>• due to high-frequency radiation / acc. to IEC 61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1
<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

### Certificates/ approvals

General Product Approval		EMC	Declaration of Conformity	
 CSA	 UL		 RCM	 EG-Konf.

[Miscellaneous](#)

<b>Test Certificates</b>	<b>other</b>
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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=3RF2920-0FA08>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2920-0FA08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2920-0FA08>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RF2920-0FA08&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2920-0FA08&lang=en)



