## **SIEMENS**

Data sheet 3RF2920-0FA08

Load monitoring basis Current range 20 A / 40  $^{\circ}\text{C}$  Control voltage 24 V DC for semiconductor relay / contactor Output NO



Product brand name	SIRIUS
Product designation	load monitoring, basis
Manufacturer's article number	
<ul><li>_1 / of the accessories that can be ordered</li></ul>	3RF2900-0RA88
Product designation	
<ul><li>_1 / of the accessories that can be ordered</li></ul>	sealable end cover

General technical data	"
Product function	solid-state relay / solid-state contactor 3RF2
Insulation voltage	
• rated value	600 V
Degree of pollution	3
Protection class IP	IP20
Shock resistance / acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance / acc. to IEC 60068-2-6	2g
Reference code / acc. to DIN 40719 extended	A
according to IEC 204-2 / acc. to IEC 750	
Reference code / acc. to DIN EN 81346-2	В
Reference code / acc. to DIN EN 61346-2	В

## Main circuit

Number of poles / for main current circuit	0
Number of NO contacts / for main contacts	0
Number of NC contacts / for main contacts	0
Operating frequency / rated value	50 60 Hz
Relative symmetrical tolerance / of the operating	10 %
frequency	
Operating current	
• at AC-51 / rated value	20 A
Derating temperature	40 °C
Control circuit/ Control	
Control supply voltage / 1	
• at DC	24 V
Control supply voltage	
<ul><li>at DC / Full-scale value for signal&lt;0&gt;</li></ul>	5 V
recognition	
Control current / at minimum control supply voltage	
• at DC	2 mA
Control current / at DC / rated value	25 mA
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Number of CO contacts / for auxiliary contacts	0
nstallation/ mounting/ dimensions	
Mounting type	clip-on
<ul> <li>Side-by-side mounting</li> </ul>	Yes
Height	101.5 mm
Width	22.5 mm
Depth	67 mm
Installation altitude / at height above sea level /	1 000 m
maximum	
Connections/ Terminals	
Type of electrical connection	
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross sections	

Connections/ Terminals	
Type of electrical connection	
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary and control contacts</li> </ul>	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded / with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded / without core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>at AWG conductors / for auxiliary and control contacts</li> </ul>	1x (AWG 20 12)
Tightening torque	

<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 auxiliary and control contacts / with screw- type terminals</li> </ul>	4.5 5.3 lbf·in
Design of the thread / of the connection screw	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Wire stripping length / of the cable	
• for auxiliary and control contacts	7 mm

Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul><li>during storage</li></ul>	-55 +80 °C

Electromagnetic compatibility	
Conducted interference	
<ul> <li>due to burst / acc. to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2
<ul> <li>due to conductor-earth surge / acc. to IEC</li> <li>61000-4-5</li> </ul>	2 kV behavior criterion 2
<ul> <li>due to conductor-conductor surge / acc. to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2
<ul> <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
Electrostatic discharge / acc. to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
Conducted HF-interference emissions / acc. to CISPR11	Class A for industrial environment
Field-bound HF-interference emission / acc. to CISPR11	Class B for the domestic, business and commercial environments

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2920-0FA08">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2920-0FA08</a>

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, ...) <a href="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</a>

