## **SIEMENS**

Data sheet 3RF2920-0GA16



extended load monitoring current range 20 A / 40  $^{\circ}\text{C}$  400  $\dots$  600 V 24 V AC/DC for semiconductor relay / contactor

product brand name product designation manufacturer's article number

- \_1 of the accessories that can be ordered product designation
  - \_1 of the accessories that can be ordered

SIRIUS

extended load monitoring

3RF2900-0RA88

sealable end cover

General technical data	
product function	solid-state relay / solid-state contactor 3RF2
power loss [W] for rated value of the current without load current share typical	1 W
insulation voltage rated value	600 V
degree of pollution	3
surge voltage resistance of main circuit rated value	2.5 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
design of the switching function	CO contact
reference code according to IEC 81346-2	В
Substance Prohibitance (Date)	05/01/2012
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
type of voltage	AC/DC
operating voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	400 600 V
<ul> <li>at 60 Hz rated value</li> </ul>	400 600 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
● at 50 Hz	340 660 V
• at 60 Hz	340 660 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	20 A
derating temperature	40 °C
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20.5 26.5 V
at 60 Hz rated value	20.5 26.5 V
control supply voltage 1 at AC	
at 50 Hz rated value	24 V

<ul> <li>at 60 Hz rated value</li> </ul>	24 V
control supply voltage at DC rated value	18 30 V
control supply voltage 1	
<ul> <li>at DC rated value</li> </ul>	24 V
• at DC	24 V
control supply voltage at AC	
<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
<ul> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
control supply voltage at DC full-scale value for signal<0> recognition	5 V
supply voltage frequency for auxiliary and control circuit rated value	50 60 Hz
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
• at DC	2 mA
control current at AC rated value	40 mA
control current at DC rated value	40 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	1
Installation/ mounting/ dimensions	
fastening method	clip-on
side-by-side mounting	Yes
height	111.5 mm
width	45 mm
depth	69.5 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for auxiliary and control 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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
finely stranded without core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
at AWG cables for auxiliary and control contacts	1x (AWG 20 12)
tightening torque for auxiliary and control contacts with screw-type terminals	0.5 0.6 N·m
tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf·in
design of the thread of the connection screw of the auxiliary and control contacts	M3
stripped length of the cable for auxiliary and control	7 mm
contacts	
Safety 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
Ambient conditions	
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	
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
due to burst according to IEC 61000-4-4      due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2
due to conductor-conductor surge according to IEC     61000-4-5	1 kV behavior criterion 2
due to high-frequency radiation according to IEC     61000-4-6	140 dBuV in the frequency range 0.15 80 MHz, 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

field-bound HF interference emission according to CISPR11

Class A for industrial environment

Class B for the domestic, business and commercial environments

Certificates/ approvals

**General Product Approval** 

**EMC** 

Declaration of Conformity



Confirmation



EAC





Declaration of Conformity

**Test Certificates** 

other



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=3RF2920-0GA16

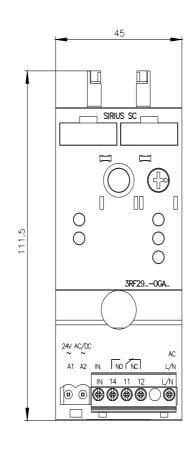
Cax online generator

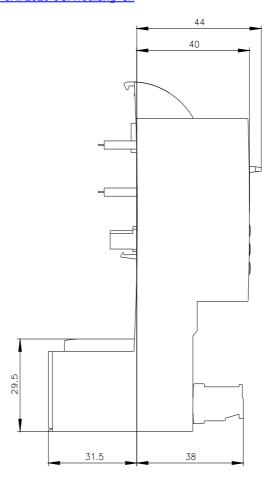
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2920-0GA16}$ 

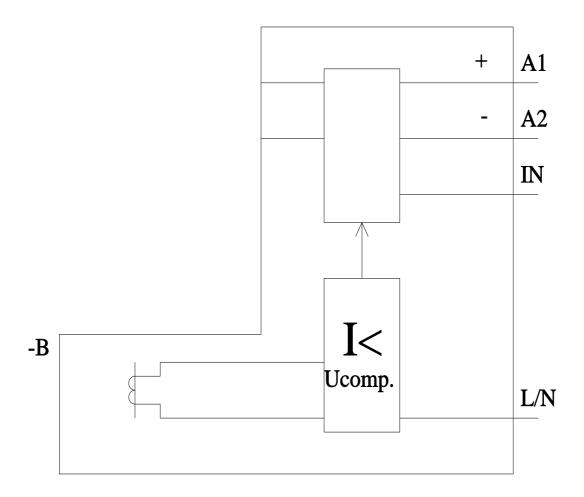
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2920-0GA16

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RF2920-0GA16&lang=en







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