## **SIEMENS**

**Data sheet** 3RF2990-0GA36



extended load monitoring current range 90 A / 40 °C 400 ... 600 V / 110 V AC for semiconductor relay / contactor

product brand name product designation manufacturer's article number

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

SIRIUS

extended load monitoring

3RF2900-0RA88

<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		
power loss [W] for rated value of the current			
<ul> <li>without load current share typical</li> </ul>	2.2 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		
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>	90 A		
derating temperature	40 °C		
Control circuit/ Control			
type of voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	90 121 V		
at 60 Hz rated value	90 121 V		
control supply voltage 1 at AC			

● at 50 Hz	110 V			
control supply voltage at AC				
<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	15 V			
<ul> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	15 V			
supply voltage frequency for auxiliary and control	50 60 Hz			
circuit rated value	5.11-			
symmetrical line frequency tolerance	5 Hz			
control current at minimum control supply voltage	2 4			
at AC control current at AC rated value	2 mA 20 mA			
	20 IIIA			
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			
<ul><li>side-by-side mounting</li></ul>	Yes			
height	111.5 mm			
width	45 mm			
depth	69.5 mm			
Connections/ Terminals				
type of electrical connection				
for auxiliary and control circuit	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)		
<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 cables for auxiliary and control contacts</li> </ul>	1x (AWG 20 12)			
tightening torque for auxiliary and control contacts with	0.5 0.6 N·m			
screw-type terminals				
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 contacts	7 mm			
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 conta	act from the front		
Ambient conditions	inger-sale, for vertical conta			
	4.000			
installation altitude at height above sea level maximum	1 000 m			
ambient temperature	05 100 00			
during operation     during storage	-25 +60 °C -55 +80 °C			
during storage	-55 +80 °C			
Electromagnetic compatibility				
conducted interference				
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterio	on 2		
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2			
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2			
<ul> <li>due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
field-bound HF interference emission according to	Class B for the domestic, business and commercial environments			
CISPR11				
Certificates/ approvals				
		EMC	Declaration of	



Confirmation









Declaration of Conformity

**Test Certificates** 

other



Type Test Certificates/Test Report

Confirmation

## **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=3RF2990-0GA36

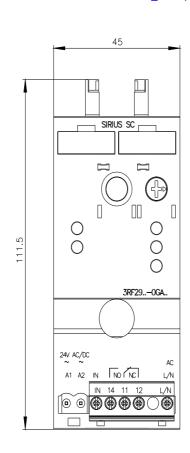
Cax online generator

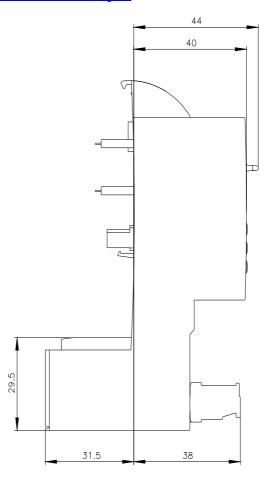
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2990-0GA36

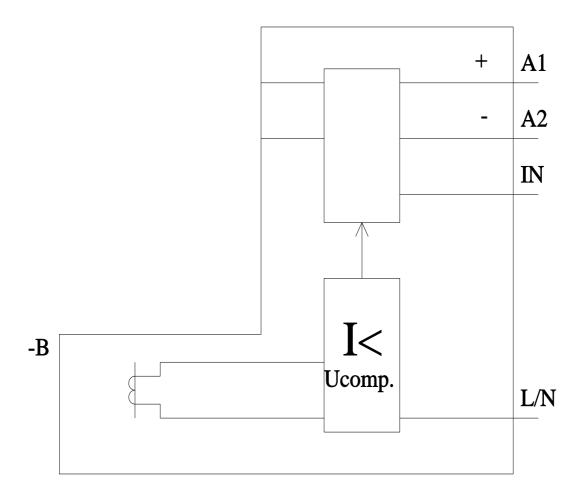
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2990-0GA36

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=3RF2990-0GA36&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2990-0GA36&lang=en</a>







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