# SIEMENS

### Data sheet

## 3RF2950-0GA16



LOAD MONITORING CURRENT RANGE 50 A 40 DEGREES C 400-600 V / 24 V AC/DC TO SEMICON. RELAY/CONTACT. 3RF2

General technical data:		
product brand name		SIRIUS
Product designation	-	load monitoring
Product function		solid-state relay / solid-state contactor 3RF2
Number of poles for main current circuit		0
Protection class IP	-	IP20
Product designation _1 of the accessories that can be ordered	_	sealable end cover
Manufacturer article number _1 of the accessories that can be ordered		<u>3RF2900-0RA88</u>
Hole diameter of the current transformer	mm	17
Number of partial loads for load monitoring	-	12
Ambient temperature	_	
<ul> <li>during operation</li> </ul>	°C	-25 +60
<ul> <li>during storage</li> </ul>	°C	-55 +80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27	_	15g / 11 ms
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	_	A
Equipment marking acc. to DIN EN 61346-2	_	В
Main circuit:		
Number of NO contacts for main contacts		0
Number of NC contacts for main contacts		0
Operating current		

• at AC-1 at 400 V Rated value	А	50
Derating temperature	°C	40
Operating voltage with AC		
• at 50 Hz Rated value	V	400 600
• at 60 Hz Rated value	V	400 600
Operating range relative to the operating voltage with		
AC		
• at 50 Hz	V	340 660
• at 60 Hz	V	340 660
Operating frequency Rated value	Hz	50 60
Relative symmetrical tolerance of the operating	%	10
frequency		
Insulation voltage Rated value	V	600
Compensation of the supply voltage fluctuations	%	20
Partial load for load monitoring	А	1.6
Current measuring range	А	0 55

Control circuit/ Control:

Type of voltage		AC/DC
Control supply voltage		
• for DC		
— Rated value	V	24 24
— Full-scale value for signal<0> recognition	V	15
• with AC		
— at 50 Hz		
— Rated value	V	24 24
— Full-scale value for signal<0> recognition	V	14
— at 60 Hz		
— Rated value	V	24 24
— Full-scale value for signal<0> recognition	V	14
Supply voltage frequency for auxiliary and control current circuit Rated value	Hz	50 60
Symmetrical line frequency tolerance	Hz	5
Relative symmetrical tolerance of the supply voltage frequency	%	10
Control current	_	
<ul> <li>with AC Rated value</li> </ul>	mA	40
• for DC Rated value	mA	40
	S	0.1 3

Number of NC contacts for auxiliary contacts

1

Number of NO contacts for auxiliary contacts		1
Number of CO contacts for auxiliary contacts		1
Operating voltage of the auxiliary contacts		
• with AC	V	15 30
• for DC	V	15 30
Operating current of the auxiliary contacts		
• with AC	mA	5 1 000
• for DC	mA	5 1 000

Installation/ mounting/ dimensions:		
Mounting type		clip-on
Mounting type Side-by-side mounting		Yes
Width	mm	45
Height	mm	111.5
Depth	mm	69.5

Connections/ Terminals:		
Type of electrical connection		
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Design of the thread of the connection screw of the		M3
auxiliary and control contacts		
Type of connectable conductor cross-section		
<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)
— without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>for AWG conductors for auxiliary and control</li> </ul>		1x (AWG 20 12)
contacts		
Connectable conductor cross-section for auxiliary		
and control contacts		
• solid	mm²	0.5 2.5
<ul> <li>finely stranded</li> </ul>		
— with core end processing	mm²	0.5 2.5
- without core end processing	mm²	0.5 2.5
AWG number as coded connectable conductor cross		12 20
section for auxiliary and control contacts		
Wire stripping length of the cable for auxiliary and	mm	7
control contacts		
Tightening torque for auxiliary and control contacts	N∙m	0.5 0.6
with screw-type terminals		
Tightening torque [lbf·in] for auxiliary and control	lbf∙in	4.5 5.3
contacts with screw-type terminals		

Certificates/ approvals:

Image: CSAImage: CSA<	Test Certificates
	<u>Type Test</u> Certificates/Test <u>Report</u>
other	

Environmental Confirmations

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

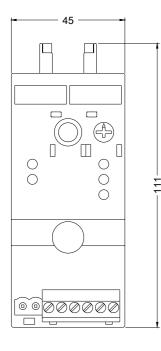
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

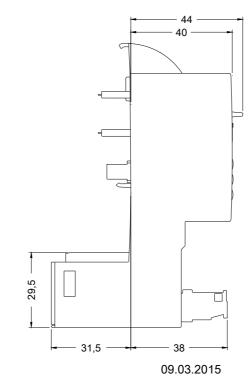
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29500GA16

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF29500GA16/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF29500GA16&lang=en





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