## **SIEMENS**

Data sheet 3RF2920-0GA13



LOAD MONITORING CURRENT RANGE 20 A 40 DEGREES C 110-230 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		3RF2900-0RA88
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 <b>+</b> 60
during storage	°C	-55 <b>+</b> 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		Α
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	Α	20
Derating temperature	°C	40
Operating voltage with AC		
• at 50 Hz Rated value	V	110 230
• at 60 Hz Rated value	V	110 230
Operating range relative to the operating voltage with		
AC		
● at 50 Hz	V	93.5 253
● at 60 Hz	V	93.5 253
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	Α	0.65
Current measuring range	Α	0 22

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
<ul><li>— Full-scale value for signal&lt;0&gt; recognition</li></ul>	V	14
— at 60 Hz		
— Rated value	V	24 24
<ul><li>— Full-scale value for signal&lt;0&gt; recognition</li></ul>	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
Response delay	S	0.1 3

Auxiliary circuit:	
Number of NC contacts for auxiliary contacts	1

	·
	1
V	15 30
V	15 30
mA	5 1 000
mA	5 1 000
	V mA

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		
<ul> <li>— with core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>— without core end processing</li> </ul>		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>		
<ul> <li>with core end processing</li> </ul>	mm²	0.5 2.5
<ul> <li>— without core end processing</li> </ul>	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 control contacts	mm	7
Tightening torque for auxiliary and control contacts	N·m	0.5 0.6
with screw-type terminals	. 4 111	0.0 0.0
Tightening torque [lbf·in] for auxiliary and control	lbf·in	4.5 5.3
contacts with screw-type terminals		

## Certificates/ approvals:

**EMC General Product Approval Declaration of Test** Conformity Certificates











Type Test Certificates/Test Report

## other

Environmental Confirmations

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

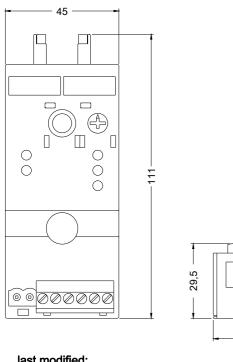
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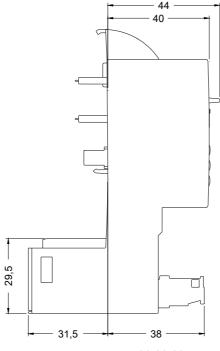
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29200GA13

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

http://support.automation.siemens.com/WW/view/en/3RF29200GA13/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=3RF29200GA13&lang=en





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