



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		
• during operation	°C	-25 ... +60
• during storage	°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
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
Reference code acc. to DIN EN 61346-2		B

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	A	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 frequency	%	10
Insulation voltage Rated value	V	600
Compensation of the supply voltage fluctuations	%	20
Partial load for load monitoring	A	0.65
Current measuring range	A	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
— 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		
• with AC Rated value	mA	40
• for DC Rated value	mA	40
Response delay	s	0.1 ... 3






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
Operating voltage		
<ul style="list-style-type: none"> • of the auxiliary contacts <ul style="list-style-type: none"> — with AC — for DC 	V	15 ... 30
	V	15 ... 30
Operating current		
<ul style="list-style-type: none"> • of the auxiliary contacts <ul style="list-style-type: none"> — with AC — for DC 	mA	5 ... 1 000
	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:		
Design of the electrical connection		screw-type terminals
<ul style="list-style-type: none"> • for auxiliary and control current circuit 		
Design of the thread of the connection screw of the auxiliary and control contacts		M3
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing • for AWG conductors for auxiliary and control contacts 		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
		1x (AWG 20 ... 12)
Connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 	mm ²	0.5 ... 2.5
	mm ²	0.5 ... 2.5
	mm ²	0.5 ... 2.5
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none"> • for auxiliary and control contacts 		12 ... 20
Wire stripping length of the cable for auxiliary and control contacts	mm	7

Tightening torque for auxiliary and control contacts • with screw-type terminals	N·m	0.5 ... 0.6
Tightening torque [lbf·in] for auxiliary and control contacts • with screw-type terminals	lbf·in	4.5 ... 5.3

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CSA	 UL		 C-TICK
		 EG-Konf.	Type Test Certificates/Test Report

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

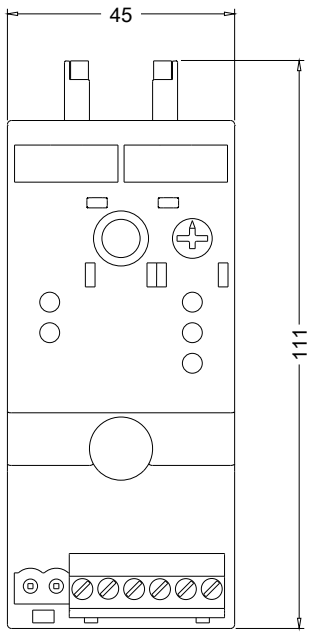
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29200GA13>

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/index.aspx?attID9=3RF29200GA13&lang=en>



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