SIEMENS

Data sheet 3RF2950-0GA33

Load monitoring Current range 50 A / 40 $^{\circ}\text{C}$ 110-230 V / 110 V AC for semiconductor relay / contactor



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's 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	m	1 000		
maximum				
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		A
according to IEC 204-2 acc. to IEC 750		
Reference code 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	50
Derating temperature	°C	40
Operating voltage at AC		
• at 50 Hz rated value	V	110 230
• at 60 Hz rated value	V	110 230
Operating range relative to the operating voltage at		
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	Α	1.6
Teach range current	Α	1.62 50
Current measuring range	Α	0 55
Control circuit/ Control		
Type of voltage		AC
Control supply voltage		
• at AC		
— at 50 Hz		
— rated value	V	90 121
Full-scale value for signal<0> recognition	V	15
— at 60 Hz		
	V	90 121
— rated value		
— Full-scale value for signal<0>	V	15

frequency
Control current

recognition

Symmetrical line frequency tolerance

current circuit rated value

• at AC rated value

Supply voltage frequency for auxiliary and control

Relative symmetrical tolerance of the supply voltage

50 ... 60

5

10

20

Hz

Hz

%

mΑ

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 of auxiliary contacts		
• at AC	V	90 121
• at DC	V	90 121
Operating current of auxiliary contacts		
• at AC	mA	5 1 000
• at 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		
 for auxiliary and control current circuit 		screw-type terminals
Design of the thread of the connection screw of the		M3
auxiliary and control contacts		
Type of connectable conductor cross-sections		
 for auxiliary and control contacts 		
— 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)
 at AWG conductors for auxiliary and control contacts 		1x (AWG 20 12)
Connectable conductor cross-section for auxiliary		
and control contacts		
• solid	mm²	0.5 2.5
• finely stranded		
— 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 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











Miscellaneous

Test Certific-	other
ates	

Type Test Certificates/Test Report

Confirmation

Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2950-0GA33

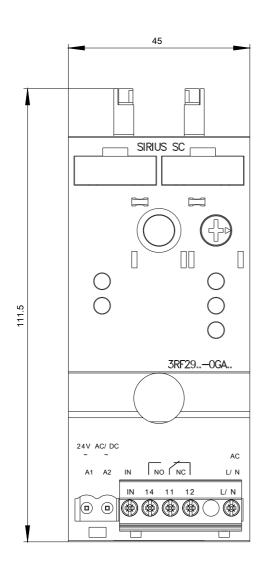
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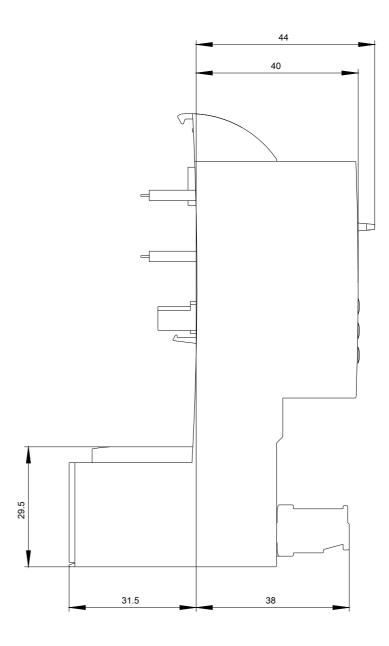
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2950-0GA33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0GA33

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2950-0GA33&lang=en





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