SIEMENS

Data sheet 3RF2916-0JA13



HEATER CURRENT MONITORING CURRENT RANGE 16A 40 DEG. C 110-230V / 24V AC/DC FOR SEMICOND. RELAY / CONTACTOR REMOTE / W/O CONTROL CONNECT.

General technical data:		
product brand name		SIRIUS
Product designation		heating current 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		6
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
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	Α	16
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	0.42
Current measuring range	Α	0 16

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

	0
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		
 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-section		
 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)
 for AWG conductors for auxiliary and control 		1x (AWG 20 12)
contacts		
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	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:

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

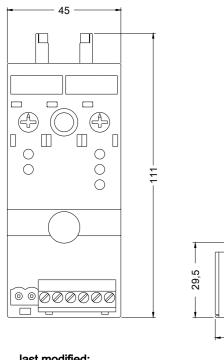
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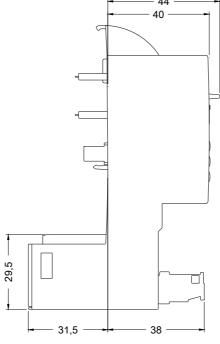
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29160JA13

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

http://support.automation.siemens.com/WW/view/en/3RF29160JA13/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=3RF29160JA13&lang=en





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