## **SIEMENS**

## Data sheet

## 3RF2950-0KA16



POWER CONTROLLER CURRENT RANGE 50A 40 DEGREES C 400-600V / 24V AC/DC FOR SEMICONDUCTOR RELAY / CONTA W. PARTIAL LOAD MONITORING W. PARTIAL LOAD MONITORING

Figure similar

General technical data:				
product brand name		SIRIUS		
Product designation		power controller		
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>		
Product designation _2 of the accessories that can be ordered		input reactor / 1AC		
Manufacturer article number _2 of the accessories that can be ordered		<u>4EM6204-0CB00</u>		
Hole diameter of the current transformer	mm	17		
Number of partial loads for load monitoring		6		
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		К		

Main circuit: Number of NO contacts for main contacts		0
Number of NC contacts for main contacts	-	0
Operating current	-	0
	А	50
at AC-1 at 400 V Rated value	°C	
Derating temperature	U	40
Operating voltage with AC	V	400 600
• at 50 Hz Rated value		
• 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 frequency	%	10
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

• with AC Rated value

Control current

40

40

mΑ

mΑ

Operating voltage at the analog input	V	-1 +11
Source resistance at the analog input	Ω	8 000
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		0
Operating voltage of the auxiliary contacts <ul> <li>with AC</li> </ul>	V	15 30
	V	15 30
• for DC	V	15 30
Operating current of the auxiliary contacts		5 4 000
• 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 auxiliary and control contacts		M3
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)
<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 contacts</li> </ul>		1x (AWG 20 12)
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	mm	7
Wire stripping length of the cable for auxiliary and control contacts	mm	7

Tightening torque for auxiliary and control contacts with screw-type terminals Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	N·m Ibf∙in	0.5 0.6 4.5 5.3
Certificates/ approvals:		

General Proc	duct Approval		EMC	Declaration of	Test	
				Conformity	Certificates	
CSA		EHC	Стіск	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)

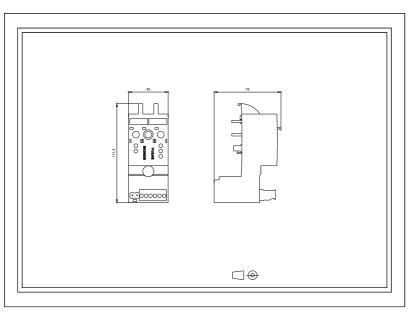
http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29500KA16

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF29500KA16/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=3RF29500KA16&lang=en



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