SIEMENS

Data sheet

3RF2990-0KA13



POWER CONTROLLER CURRENT RANGE 90A 40 DEGREES C 110-230V / 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		4EM6100-5CB00		
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		К		

Main circuit:		
Number of NO contacts for main contacts	_	0
Number of NC contacts for main contacts		0
Operating current		0
at AC-1 at 400 V Rated value	А	90
Derating temperature	°C	40
Operating voltage with AC	Ū	+0
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	А	2.9
Current measuring range	А	0 99
Control circuit/ Control:		
Type of voltage		AC/DC
Control supply voltage	_	
• for DC		
— Rated value	V	04 04
		24 24
 Full-scale value for signal<0> recognition 	V	24 24 15
 Full-scale value for signal<0> recognition with AC 	V	
	V	
• with AC	V	
• with AC — at 50 Hz		15
• with AC — at 50 Hz — Rated value — Full-scale value for signal<0>	V	15 24 24
• with AC — at 50 Hz — Rated value — Full-scale value for signal<0> recognition	V	15 24 24
 with AC — at 50 Hz — Rated value — Full-scale value for signal<0> recognition — at 60 Hz 	V V	15 24 24 14
 with AC at 50 Hz Rated value Full-scale value for signal<0> recognition at 60 Hz Rated value Full-scale value for signal<0> 	V V V	15 24 24 14 24 24
 with AC at 50 Hz Rated value Full-scale value for signal<0> recognition at 60 Hz Rated value Full-scale value for signal<0> recognition Supply voltage frequency for auxiliary and control 	V V V V	15 24 24 14 24 24 14
 with AC at 50 Hz Rated value Full-scale value for signal<0> recognition at 60 Hz Rated value Full-scale value for signal<0> recognition Supply voltage frequency for auxiliary and control current circuit Rated value 	V V V Hz	15 24 24 14 24 24 14 50 60
 with AC at 50 Hz Rated value Full-scale value for signal<0> recognition at 60 Hz Rated value Full-scale value for signal<0> recognition Supply voltage frequency for auxiliary and control current circuit Rated value Symmetrical line frequency tolerance Relative symmetrical tolerance of the supply voltage 	V V V Hz Hz	15 24 24 14 24 24 14 50 60 5

with AC Rated value
 mA
 for DC Rated value
 mA

40

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 with AC 	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			
 for auxiliary and control current circuit 		screw-type terminals	
Design of the thread of the connection screw of the auxiliary and control contacts		M3	
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 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	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	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 Prod	uct Approval		EMC	Declaration of Conformity	Test Certificates		
(SA)		EAC	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)

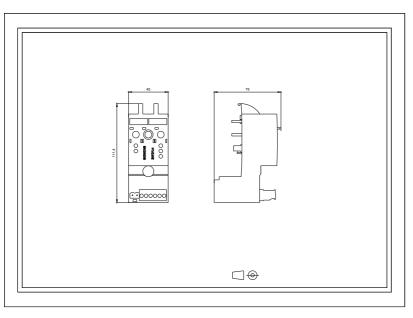
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Cax online generator

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF29900KA13/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=3RF29900KA13&lang=en



last modified:

09.03.2015