SIEMENS

Data sheet 3RF2920-0KA13



POWER CONTROLLER CURRENT RANGE 20A 40 DEGREES C 110-230V / 24V AC/DC FOR SEMICONDUCTOR RELAY / CONTA W. PARTIAL LOAD MONITORING W. PARTIAL LOAD MONITORING

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		3RF2900-0RA88	
Product designation _2 of the accessories that can be ordered		input reactor / 1AC	
Manufacturer article number _2 of the accessories that can be ordered		4EM4700-8CB00	
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		Α	
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		
• at AC-1 at 400 V Rated value	Α	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	Α	0.65
Current measuring range	Α	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>	V	14	
recognition			
— at 60 Hz			
— Rated value	V	24 24	
— Full-scale value for signal<0>	V	14	
recognition			
Supply voltage frequency for auxiliary and control	Hz	50 60	
current circuit Rated value			
Symmetrical line frequency tolerance	Hz	5	
Relative symmetrical tolerance of the supply voltage	%	10	
frequency Control current			
	mA	40	
with AC Rated value			
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	٧	15 30		
• for DC	V	15 30		
Operating current of the auxiliary contacts				
• 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 section 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	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:

General Product Approval	EMC	Declaration of	Test
		Conformity	Certificates











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

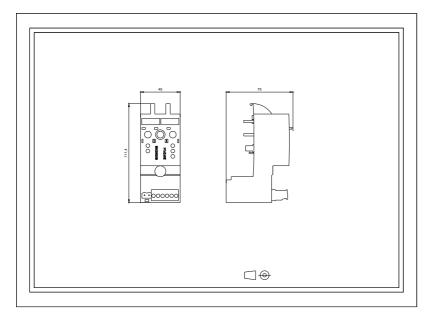
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29200KA13

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

http://support.automation.siemens.com/WW/view/en/3RF29200KA13/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=3RF29200KA13&lang=en



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