SIEMENS

Data sheet 3RF2950-0GA36



extended load monitoring current range 50 A / 40 °C 400 ... 600 V / 110 V AC for semiconductor relay / contactor

product brand name product designation manufacturer's article number

- _1 of the accessories that can be ordered product designation

SIRIUS

extended load monitoring

3RF2900-0RA88

_1 of the accessories that can be ordered	sealable end cover		
General technical data			
product function	solid-state relay / solid-state contactor 3RF2		
power loss [W] for rated value of the current			
 without load current share typical 	2.2 W		
insulation voltage rated value	600 V		
degree of pollution	3		
surge voltage resistance of main circuit rated value	2.5 kV		
shock resistance according to IEC 60068-2-27	15g / 11 ms		
vibration resistance according to IEC 60068-2-6	2g		
design of the switching function	CO contact		
reference code according to IEC 81346-2	В		
Substance Prohibitance (Date)	05/01/2012		
Main circuit			
number of poles for main current circuit	0		
number of NO contacts for main contacts	0		
number of NC contacts for main contacts	0		
type of voltage	AC		
operating voltage at AC			
 at 50 Hz rated value 	400 600 V		
 at 60 Hz rated value 	400 600 V		
operating frequency rated value	50 60 Hz		
relative symmetrical tolerance of the operating frequency	10 %		
operating range relative to the operating voltage at AC			
● at 50 Hz	340 660 V		
• at 60 Hz	340 660 V		
operational current			
 at AC-51 rated value 	50 A		
derating temperature	40 °C		
Control circuit/ Control			
type of voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	90 121 V		
 at 60 Hz rated value 	90 121 V		
control supply voltage 1 at AC			

● at 50 Hz	110 V			
control supply voltage at AC				
• at 50 Hz full-scale value for signal<0> recognition	15 V			
 at 60 Hz full-scale value for signal<0> recognition 	15 V			
supply voltage frequency for auxiliary and control	50 60 Hz			
circuit rated value	5 U-7			
symmetrical line frequency tolerance	5 Hz			
control current at minimum control supply voltage	2 4			
at AC control current at AC rated value	2 mA 20 mA			
	20 IIIA			
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			
Installation/ mounting/ dimensions				
fastening method	clip-on			
side-by-side mounting	Yes			
height	111.5 mm			
width	45 mm			
depth	69.5 mm			
Connections/ Terminals				
type of electrical connection				
 for auxiliary and control circuit 	screw-type terminals			
type of connectable conductor cross-sections				
 for auxiliary and control contacts 				
— solid	1x (0.5 2.5 mm²), 2x (0.5			
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5			
 finely stranded without core end processing 	1x (0.5 2.5 mm²), 2x (0.5	1.0 mm²)		
at AWG cables for auxiliary and control contacts	1x (AWG 20 12)			
tightening torque for auxiliary and control contacts with	0.5 0.6 N·m			
screw-type terminals	4.5. 5.2 lbf.in			
tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf·in			
design of the thread of the connection screw of the	M3			
auxiliary and control contacts				
stripped length of the cable for auxiliary and control	7 mm			
contacts				
Safety related data				
protection class IP on the front according to IEC	IP20			
60529				
touch protection on the front according to IEC 60529	finger-safe, for vertical conta	act from the front		
Ambient conditions				
installation altitude at height above sea level maximum	1 000 m			
ambient temperature				
during operation	-25 +60 °C			
during storage	-55 +80 °C			
Electromagnetic compatibility				
conducted interference				
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterio	on 2		
due to conductor-earth surge according to IEC	2 kV behavior criterion 2			
61000-4-5				
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2			
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments			
Certificates/ approvals				
		ENO	Declaration of	
General Product Approval		EMC	Conformity	
			Conformity	



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2950-0GA36

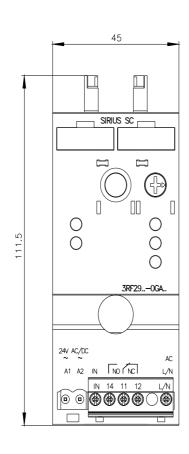
Cax online generator

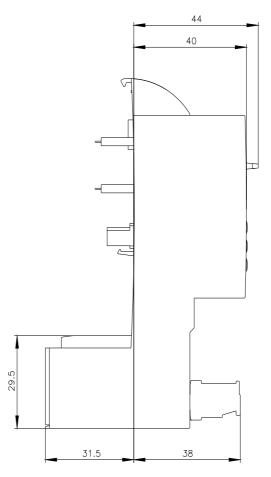
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2950-0GA36

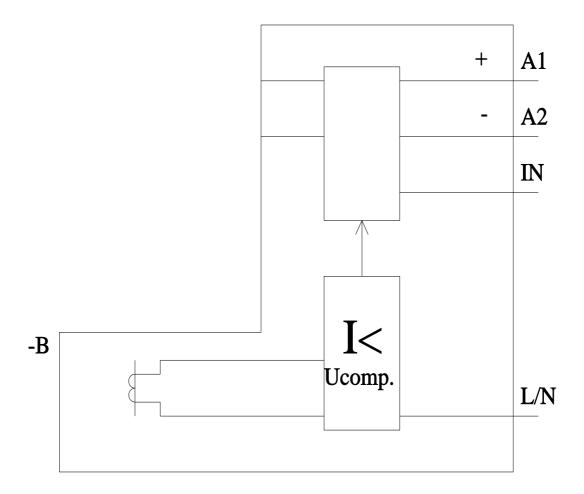
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0GA36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2950-0GA36&lang=en







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