SIEMENS

Data sheet 3RF21 50-3AA02



SEMICOND. RELAY 3RF2, 1-PHASE WIDTH 22.5 MM, 50 A 24-230 V / 24 V DC RING TERMINAL

General technical data:		
product brand name		SIRIUS
Product designation		solid-state relay
Product function		zero-point switching
Number of poles for main current circuit		1
Protection class IP		IP20
Product designation _1 of the accessories that can be ordered		terminal cover
Manufacturer article number _1 of the accessories that can be ordered		3RF2900-3PA88
Product designation _3 of the accessories that can be ordered		converter
Manufacturer article number _3 of the accessories that can be ordered		3RF2900-0EA18
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer article number _4 of the accessories that can be ordered		3RF2950-0GA13
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		K

• at minimum control supply voltage		
— for DC	mA	2
• for DC Rated value	mA	15

Installation/ mounting/ dimensions:			
Mounting type		screw fixing	
Mounting type Side-by-side mounting		Yes	
Design of the thread of the screw for securing the equipment		M4	
Tightening torque of the screw for securing the equipment	N·m	1.5	
Width	mm	22.5	
Height	mm	85	
Depth	mm	48	

Connections/ Terminals:			
Type of electrical connection for main current circuit		ring cable connection	
Design of the thread of the connection screw for main contacts		M5	
Tightening torque for main contacts with screw-type terminals	N·m	2 2.5	
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf∙in	7 10.3	
Type of connectable conductor cross-section			
• for main contacts			
— for JIS cable lug		JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5	
 for DIN cable lug for main contacts 		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25	
 for AWG conductors 			
 for auxiliary and control contacts 		1x (AWG 20 12)	
 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)	
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	
Type of electrical connection for auxiliary and control current circuit		ring cable connection	
Design of the thread of the connection screw of the auxiliary and control contacts		M3	

AWG number as coded connectable conductor cross section for auxiliary and control contacts		20 12
Wire stripping length of the cable		
• for main contacts	mm	7
 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 Pro	duct Approval		EMC	Declaration of Conformity	Test Certificates
(SA)	SU	EHE	C-TICK	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

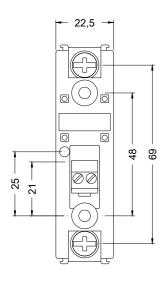
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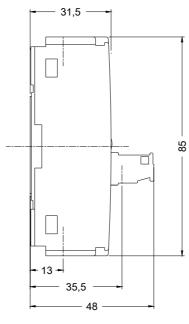
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF21503AA02

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

http://support.automation.siemens.com/WW/view/en/3RF21503AA02/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RF21503AA02&lang=en





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