SIEMENS

Data sheet

3RF20 50-1AA24



SEMICONDUCTOR RELAY 3RF2, 1-PH. WIDTH 45 MM, 50 A 48-460 V / 110-230 V AC SCREW 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
Ambient temperature		
 during operation 	°C	-25 +60
 during storage 	°C	-55 +80
Installation altitude at height above sea level	m	1 000
maximum		
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		К
according to IEC 204-2 acc. to IEC 750		
Equipment marking acc. to DIN EN 61346-2		Q
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
Main circuit:		
Number of NO contacts for main contacts		1
Number of NC contacts for main contacts		0
Operating current		
 Rated value maximum 	А	50
• at AC-51 Rated value	А	50

	mA	500
• minimum		500
Operating voltage with AC	V	49 460
at 50 Hz Rated value	V	48 460
at 60 Hz Rated value	V	48 460
Operating range relative to the operating voltage with AC		
• at 50 Hz	V	40 506
• at 60 Hz	V	40 506
Operating frequency Rated value	Hz	50 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/µs	1 000
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	66
Surge current resistance Rated value	А	600
I2t value maximum	A ² ·s	1 800
Short-circuit protection, design of the fuse link		
Control circuit/ Control:		
Control supply voltage frequency		
• 1 Rated value	Hz	50
• 2 Rated value	Hz	60
Type of voltage of the control supply voltage		AC
Control supply voltage 1		
• with AC		
— at 50 Hz Initial rated value	V	110
— at 50 Hz Final rated value	V	230
— at 60 Hz Initial rated value	V	110
— at 60 Hz Final rated value	V	230
Control supply voltage		
• with AC		
— at 50 Hz Full-scale value for signal<0> recognition	V	40
— at 60 Hz Full-scale value for signal<0> recognition	V	40
Symmetrical line frequency tolerance	Hz	5
	0/	10
Relative symmetrical tolerance of the supply voltage frequency	%	

 at minimum control supply voltage 		
— with AC	mA	2
with AC 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	45			
Height	mm	58			
Depth	mm	48			

Type of electrical connection for main current circuit screw-type terminals Design of the thread of the connection screw for main contacts M4 Tightening torque for main contacts with screw-type terminals M4 • minimum N·m 2 • maximum N·m 2.5 Tightening torque [lbf-in] for main contacts with screw-type terminals Mim 7 • minimum Ibf in 7 • maximum Ibf in 10.3 Type of connectable conductor cross-section 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) • for main contacts 2x (1.1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - solid 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for auxiliary and control contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for auxiliary and control contacts 2x (1 2.5 mm²), 2x (0.5 1.0 mm²) • for auxiliary and control contacts 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) • for auxiliary and control contacts 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) - solid 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) - mith core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) - finely stranded 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) </th <th>Connections/ Terminals:</th> <th></th> <th></th>	Connections/ Terminals:		
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Tightening torque for main contacts with screw-type terminalsNImage: Control contacts with screw-type terminals• minimumN·m2• maximumN·m2.5Tightening torque [lbf:in] for main contacts with screw-type terminalsIbf:in7• maximumlbf:in7• maximumlbf:in10.3Type of connectable conductor cross-sectionImage: Contacts• for main contactsImage: Contacts- solid2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- finely strandedImage: Contacts- for main contactsImage: Contacts- for auxiliary and control contactsImage: Contacts- solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely strandedImage: Contacts- for auxiliary and control contactsImage: Contacts- solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely strandedImage: Contacts- solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely strandedImage: Contacts- solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- mith core end processingImage: Contacts- with core end processingImage: Contacts- for main contactsImage: Contacts- finely strandedImage: Cont	-		M4
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	— finely stranded		
Connectable conductor cross-section • for main contacts	— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for main contacts	— without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
	Connectable conductor cross-section		
— single or multi-stranded mm ² 1.5 6	• for main contacts		
	— single or multi-stranded	mm²	1.5 6
— finely stranded	— finely stranded		

— with core end processing	mm²	1 10
 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		14 10
section for main contacts		
Type of electrical connection for auxiliary and control		screw-type terminals
current circuit		
Design of the thread of the connection screw of the		M3
auxiliary and control contacts		
AWG number as coded connectable conductor cross		20 12
section for auxiliary and control contacts		
Wire stripping length of the cable		
• for main contacts	mm	10
 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 Conformity	Test Certificates	
CSA	GAUS UR	EHC	Стіск	EG-Konf.	Type Test Certificates/Test Report

other			
Environmental			
Confirmations			

urther information

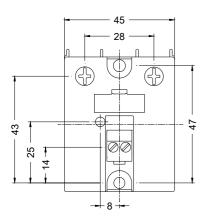
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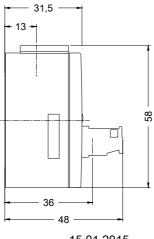
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

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last modified:

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