SIEMENS

Data sheet 3RF20 20-1AA04

SEMICONDUCTOR RELAY 3RF2, 1-PH. WIDTH 45 MM, 20 A 48-460 V / 24 V DC SCREW TERMINAL



Figure similar

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 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		К	
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	Α	20	

• at AC-51 Rated value

20

mA	100
V	48 460
V	48 460
V	40 506
	40 506
	50 60
%	10
V	600
V/µs	500
V	1 200
mA	10
°C	40
W	28.6
Α	200
A²·s	200
	DC
V	15
V	24
V	5
%	10
mA	2
mA	15
	screw fixing
	Yes
	M4
	V V V Hz % V V/µs V mA °C W A A²·s

Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	45
Height	mm	58
Depth	mm	48

Depth	IIIIII	46
Connections/ Terminals:		
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		
• minimum	N·m	2
• maximum	N·m	2.5
Tightening torque [lbf·in] for main contacts with screw-type terminals		
• minimum	lbf∙in	7
• maximum	lbf∙in	10.3
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— finely stranded		
 — with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
• for AWG conductors		
— for main contacts		2x (14 10)
 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 main contacts		
— single or multi-stranded	mm²	1.5 6
— 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 section for main contacts		14 10

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
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	10
 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	duct Approval		EMC	Declaration of	Test
				Conformity	Certificates
	SU	EHC	CTICK	EG-Konf.	Type Test Certificates/Test Report

other

Environmental Confirmations

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

http://www.siemens.com/industrial-controls/catalogs

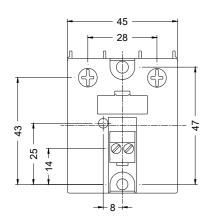
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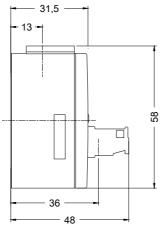
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF20201AA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF20201AA04&lang=en





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