SIEMENS

Data sheet 3RF20 70-1AA22



SEMICOND. RELAY 3RF2, 1-PHASE WIDTH 45 MM, 70 A 24-230 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		K		
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	Α	70		
• at AC-51 Rated value	Α	50		

IIIA	300
_	
V	24 230
V	24 230
V	20 253
V	20 253
Hz	50 60
%	10
V	600
V/µs	1 000
V	800
mA	10
°C	40
W	94
Α	1 200
A²·s	7 200
Hz	50
Hz	60
	AC
V	110
V	230
V	110
V	230
	10
V	40
V	40 40
V	40
	V V V Hz % V V/µs V mA °C W A A²·s

500

mA

• minimum

• 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	

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		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
3 . 3 . 1		
contacts with screw-type terminals		

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

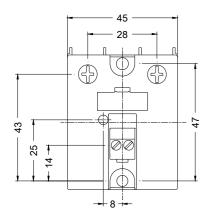
Industry Mall (Online ordering system)

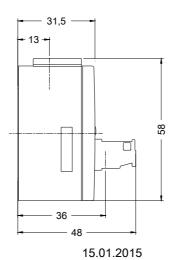
http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF20701AA22

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