SIEMENS

Data sheet

3RF23 30-3AA44



SEMICOND. RELAY 3RF2, 1-PHASE AC51 30 A 40 DEG. C 48-460 V /4-30 V DC RING CABLE CONNECTION

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		solid-state contactor
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		<u>3RF2900-3PA88</u>
Product designation _3 of the accessories that can be ordered		converter
Manufacturer article number _3 of the accessories that can be ordered		<u>3RF2900-0EA18</u>
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer article number _4 of the accessories that can be ordered		<u>3RF2950-0GA16</u>
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:		
Main circuit: Number of NO contacts for main contacts		1
		1 0
Number of NO contacts for main contacts	_	1 0

 at AC-51 Rated value 	А	30
Operating current minimum	mA	500
Operating voltage with AC		
• 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
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	33
Surge current resistance Rated value	А	600
I2t value maximum	A²·s	1 800

Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC		
— Initial rated value	V	4
— Final rated value	V	30
Control supply voltage		
 for DC Full-scale value for signal<0> recognition 	V	1
Control current		
• for DC Rated value	mA	20

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail	
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	100	
Depth	mm	156	
Connections/ Terminals:			
Type of electrical connection for main current circuit		ring cable connection	
	-		

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
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
Type of connectable conductor cross-section		
 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)
Type of connectable conductor cross-section 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		ring cable connection
current circuit		
Design of the thread of the connection screw of the auxiliary and control contacts		M3
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	10

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	Test	other	
			Conformity	Certificates		
\frown				Type Test	Environmental	
(Ui)				Certificates/Test	Confirmations	
U	ГП			Report		
UL		C-TICK	EG-Konf.			

Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

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

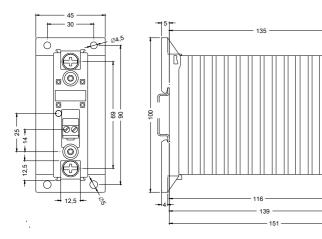
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF23303AA44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23303AA44&lang=en

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