SIEMENS

Data sheet

3RF23 30-3AA04



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:		
Number of NO contacts for main contacts		1
Number of NC contacts for main contacts		0
Operating current		
 at AC-1 at 400 V Rated value 	А	30
• 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

maximum permissible		
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
l2t 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	15	
— Final rated value	V	24	
Control supply voltage	-		
 for DC Full-scale value for signal<0> 	V	5	
recognition			
Control current			
 at minimum control supply voltage 			
— for DC	mA	2	
 for DC Rated value 	mA	15	

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
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 current circuit		ring cable connection
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	10
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	uct Approval		EMC	Declaration of Conformity	Test Certificates
(SA)		EHC	С-тіск	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>

other

Environmental Confirmations

urther 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

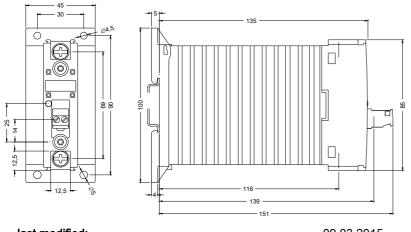
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23303AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF23303AA04/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=3RF23303AA04&lang=en



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