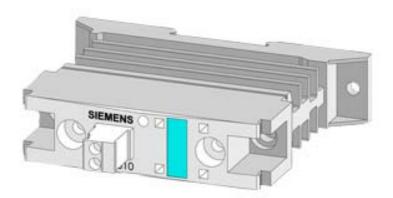
SIEMENS

Data sheet

3RF23 10-3AA02

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 10 A 40 DEGREES C 24-230 V / 24 V DC RING TERMINAL



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		IP00
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>3RF2920-0GA13</u>
Ambient temperature		
 during operation 	°C	-25 +60

	°C	-55 +80
during storage		
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	-	29 15g / 11 ms
Equipment marking acc. to DIN 40719 extended	-	K
according to IEC 204-2 acc. to IEC 750		ĸ
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-51 Rated value	А	10.5
Operating current minimum	mA	100
Operating voltage at AC	-	
• at 50 Hz Rated value	V	24 230
• at 60 Hz Rated value	V	24 230
Operating range relative to the operating voltage at AC		
• at 50 Hz	V	20 253
● at 60 Hz	V	20 253
Operating frequency Rated value	Hz	50 60
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts	V/µs	500
maximum permissible		
Blocking voltage at the thyristor for main contacts maximum permissible	V	800
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	11
Surge current resistance Rated value	А	200
I2t value maximum	A²∙s	200
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC		
— Initial rated value	V	15
— Final rated value	V	24
Control supply voltage		
• at DC Full-scale value for signal<0> recognition	V	5

Control current	-	
 at minimum control supply voltage 		
— at DC	mA	2
• at 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	22.5
Height	mm	100
Depth	mm	94
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
AWG number as coded connectable conductor cross section		
 for auxiliary and control contacts 		20 12

Type of electrical connection for auxiliary and control current circuit		ring cable connection
Design of the thread of the connection screw of the auxiliary and control contacts		M3
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 Product Approval EMC Declaration of Conformity Test Certificates Image: Conference of Confere

other

Umweltbestätigung

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

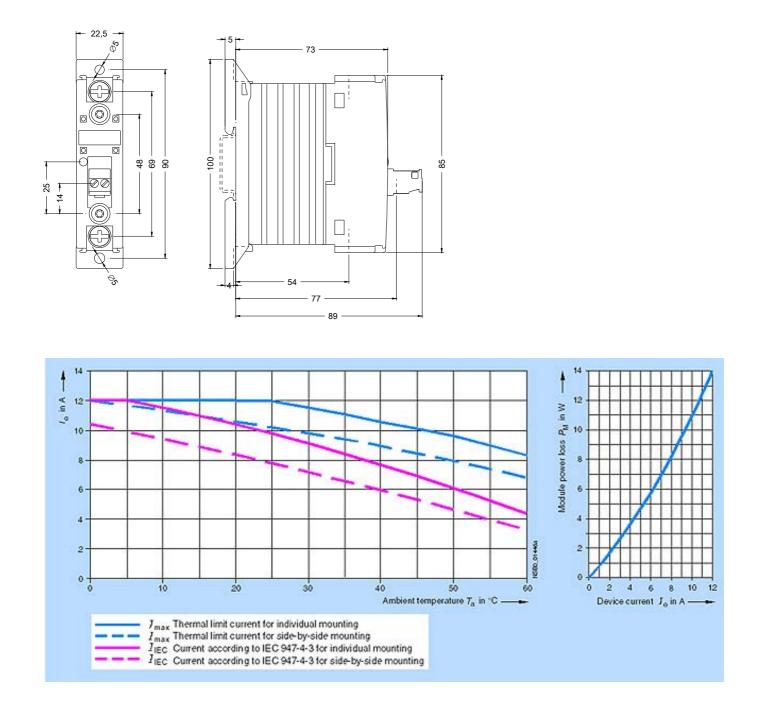
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23103AA02

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF23103AA02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23103AA02&lang=en_____



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