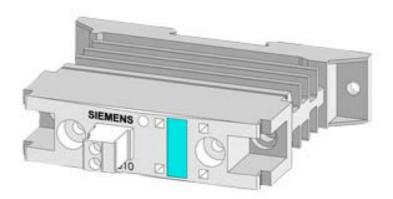
SIEMENS

Data sheet

3RF23 10-3AA22

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 10 A 40 DEGREES C 24-230 V / 110-230 V AC 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 _4 of the accessories that can be ordered		load monitoring	
Manufacturer article number _4 of the accessories that can be ordered		<u>3RF2920-0GA33</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	

		45 - 144
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-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 maximum permissible	V/µs	500
Blocking voltage at the thyristor for main contacts	V	800
maximum permissible	v	
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	11
Surge current resistance Rated value	A	200
I2t value maximum	A²∙s	200
Control circuit/ Control:		
Control supply voltage frequency		
• 1 Rated value	Hz	50
• 2 Rated value	Hz	60
Type of voltage of the control supply voltage		AC
Control supply voltage 1		
• at AC		
— at 50 Hz Initial rated value	V	110
— at 50 Hz Final rated value	V	230
— at 60 Hz Initial rated value	V	110
— at 60 Hz Final rated value	V	230

Control supply voltage		
● at AC		
— at 50 Hz Full-scale value for signal<0> recognition	V	40
— at 60 Hz Full-scale value for signal<0> recognition	V	40
Symmetrical line frequency tolerance	Hz	5
Control current	_	
 at minimum control supply voltage 		
— at AC	mA	2
• at AC 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

	ring cable connection
	M5
N∙m	2 2.5
	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
_	
	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
	1x (AWG 20 12)
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
	N·m

— 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		ring cable connection
current circuit		
Design of the thread of the connection screw of the		M3
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
contacts with screw-type terminals		

Certificates/ appr					
General Prod	uct Approval		EMC	Declaration of	Test
				Conformity	Certificates
CSA		EHC	С-тіск	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis

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

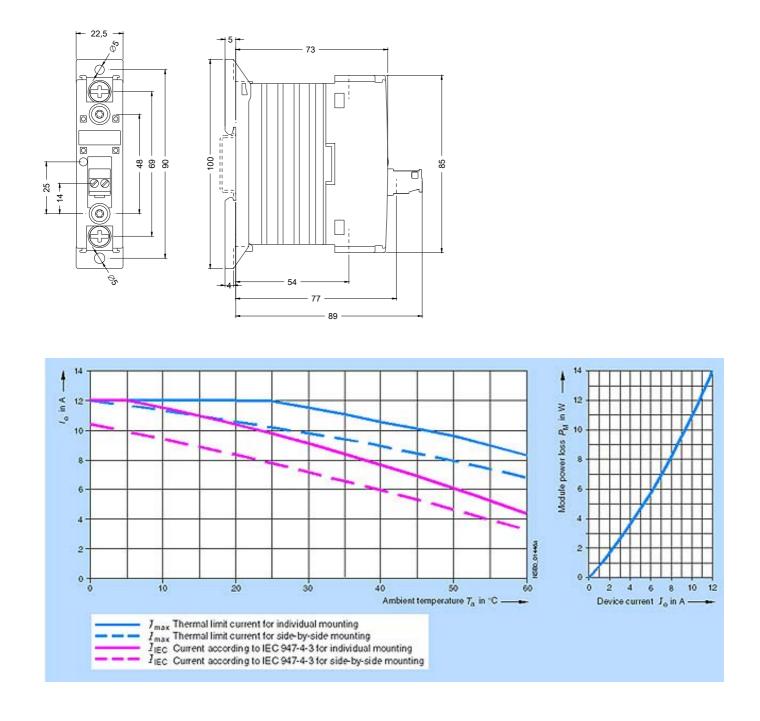
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23103AA22

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF23103AA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23103AA22&lang=en



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