SIEMENS

Data sheet 3RF23 70-3AA02

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70 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		IP20		
Product designation _1 of the accessories that can be ordered		terminal cover		
Manufacturer article number _1 of the accessories that can be ordered		3RF2900-3PA88		
Product designation _3 of the accessories that can be ordered		converter		
Manufacturer article number _3 of the accessories that can be ordered		3RF2900-0EA18		
Product designation _4 of the accessories that can be ordered		load monitoring		
Manufacturer article number _4 of the accessories that can be ordered		3RF2990-0GA13		
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-51 Rated value	Α	70
Operating current minimum	mA	500
Operating voltage with AC		
• at 50 Hz Rated value	V	24 230
• at 60 Hz Rated value	V	24 230
Operating range relative to the operating voltage with		
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	1 000
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	83
Surge current resistance Rated value	Α	1 150
I2t value maximum	A ² ·s	6 600
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> recognition 	V	5
Control current		
at minimum control supply voltage		
— for DC	mA	2
• for DC 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	135
Height	mm	100
Depth	mm	157.5

	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)		
mm²	0.5 2.5		
mm²	0.5 2.5		
mm²	0.5 2.5		
	ring cable connection		
	M3		
	20 12		
mm	10		
mm	10		
	mm² mm² mm²		

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
		Conformity	Certificates











Type Test
Certificates/Test
Report

other

Environmental Confirmations

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

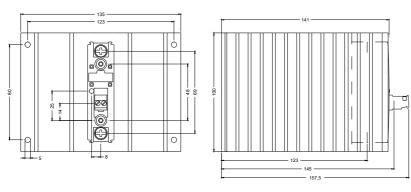
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23703AA02

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RF23703AA02/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=3RF23703AA02&lang=en



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