## SIEMENS

## Data sheet

## 3RF23 50-1BA02



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 50A / AC15 25A 40 DEG. C 24-230 V / 24 V DC INSTANTANEOUS SWITCHING

General technical data:		
product brand name		SIRIUS
Product designation		solid-state contactor
Product function		instantaneous 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 _2 of the accessories that can be ordered		power regulator
Manufacturer article number _2 of the accessories that can be ordered		<u>3RF2950-0HA13</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>3RF2950-0GA13</u>
Ambient temperature		
• during operation	°C	-25 +60
• during storage	°C	-55 +80
Installation altitude at height above sea level maximum	m	1 000

	2g
	15g / 11 ms
	К
	Q
	0
	0
	0
	1
	0
А	50
mA	500
V	24 230
V	24 230
V	20 253
V	20 253
Hz	50 60
V	600
V/µs	1 000
V	800
mA	10
°C	40
W	54
А	1 150
A²·s	6 600
	DC
V	15
V	24
V	5
	mA V V V V V Hz V V/μs V V/μs V M A A <sup>2</sup> ·s

Control current

• at minimum control supply voltage

— for DC	mA	2
<ul> <li>for DC Rated value</li> </ul>	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	67.5
Height	mm	100
Depth	mm	156

Connections/ Terminals:		
Type of electrical connection for main current circuit		screw-type terminals
Design of the thread of the connection screw for main contacts	_	M4
Tightening torque for main contacts with screw-type terminals	N∙m	2 2.5
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf∙in	18 22
Type of connectable conductor cross-section for main contacts	-	
• solid		2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )
<ul> <li>finely stranded</li> </ul>		
— with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
Type of connectable conductor cross-section	-	
<ul> <li>for AWG conductors</li> </ul>		
— for main contacts		2x (14 10)
— 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)
<ul> <li>finely stranded</li> </ul>		
— 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	-	
<ul> <li>for main contacts</li> </ul>		
— single or multi-stranded	mm²	1.5 6
— finely stranded		
— with core end processing	mm²	1 10
<ul> <li>for auxiliary and control contacts</li> </ul>		
— solid	mm²	0.5 2.5

— finely stranded		
<ul> <li>— with core end processing</li> </ul>	mm²	0.5 2.5
- without core end processing	mm²	0.5 2.5
AWG number as coded connectable conductor cross section for main contacts		10 14
Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts		M3
AWG number as coded connectable conductor cross section for auxiliary and control contacts		20 12
Wire stripping length of the cable		
<ul> <li>for main contacts</li> </ul>	mm	7
<ul> <li>for auxiliary and control contacts</li> </ul>	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/ appr	ovals:				
General Prod	uct Approval		EMC	Declaration of	Test
				Conformity	Certificates
(SA)		EHC	Стіск	EG-Konf.	Special Test Certificate

Test	other
Certificates	
Type Test	Environmental
Certificates/Test	Confirmations
Report	

## 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=3RF23501BA02

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF23501BA02/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=3RF23501BA02&lang=en

