## **SIEMENS**

Data sheet 3RF23 50-1AA26



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 50 A 40 DEGREES C 48-600 V / 110-230 V AC SCREW 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 _4 of the accessories that can be ordered		load monitoring
Manufacturer article number _4 of the accessories that can be ordered		3RF2950-0GA36
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 +60
during storage	°C	-55 <b>+</b> 80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g

	15g / 11 ms
	K
	Q
	0
	0
	0
	1
,	0
,	
Α	50
Α	50
mA	500
V	48 600
V	48 600
,	
V	40 660
V	40 660
Hz	50 60
V	600
V/µs	1 000
V	1 600
mA	10
°C	40
W	54
Α	1 150
A <sup>2</sup> ·s	6 600
Hz	50
Hz	60
	AC
V	110
V	230
	A mA  V V V V Hz V V/µs V mA °C W A A²·s

— at 60 Hz Final rated value	V	230
Control supply voltage		
• at AC		
<ul><li>— at 50 Hz Full-scale value for signal&lt;0&gt; recognition</li></ul>	V	40
<ul><li>— at 60 Hz Full-scale value for signal&lt;0&gt; recognition</li></ul>	V	40
Symmetrical line frequency tolerance	Hz	5
Control current		
<ul> <li>at minimum control supply voltage</li> </ul>		
— 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	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 mm²), 2x (2.5 6 mm²)
<ul> <li>finely stranded</li> </ul>		
<ul><li>— with core end processing</li></ul>		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)

• 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 main contacts		
<ul> <li>single or multi-stranded</li> </ul>	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
<ul> <li>— without core end processing</li> </ul>	mm²	0.5 2.5
AWG number as coded connectable conductor cross		
section		
• for main contacts		10 14
<ul> <li>for auxiliary and control contacts</li> </ul>		20 12
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
Wire stripping length of the cable		
• for main contacts	mm	7
<ul> <li>for auxiliary and control contacts</li> </ul>	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/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











Typprüfbescheinigu ng/Werkszeugnis

Test Certificates	other	
spezielle	Umweltbestätigung	

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Prüfbescheinigunge

## 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

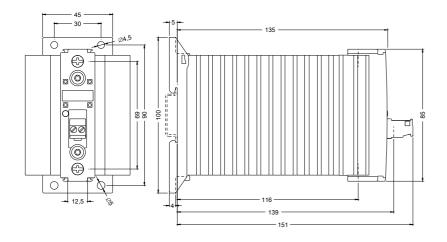
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23501AA26

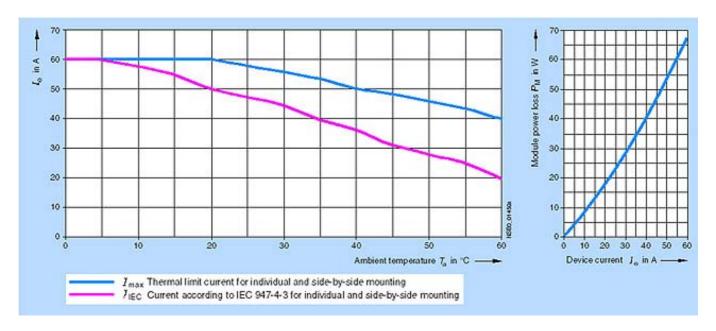
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF23501AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF23501AA26&lang=en

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