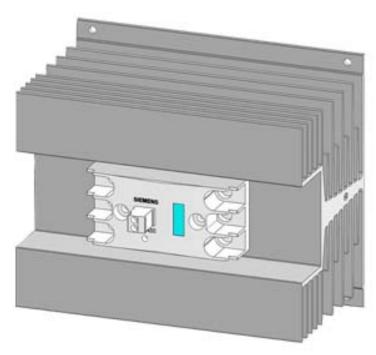
## **SIEMENS**

Data sheet 3RF24 50-3AC55



SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 50A 40 DEG. C 48-600V / 230V AC 3-PHASE CONTROLLED RING TERMINAL BLOCKING 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		3	
Protection class IP		IP00	
Ambient temperature			
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 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	
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	

	3
	0
Α	50
Α	50
mA	10
°C	40
mA	500
Α	1 150
A²·s	6 600
V	48 600
V	48 600
V	40 660
V	40 660
Hz	50 60
%	10
V	600
V/µs	1 000
V	1 600
	AC
V	180 230
V	180 230
Hz	45
	66
V	180
V	100
	180
V	100
	A mA °C mA A A²·s  V V V V V V V V V V V V V V V V V V

Relative symmetrical tolerance of the supply voltage	%	10
frequency		
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 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	157.5	
Height	mm	180	
Depth	mm	121	

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
Tightening torque [lbf-in] for main contacts with screw-type terminals	lbf∙in	18 22
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
<ul> <li>for DIN cable lug for main contacts</li> </ul>		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
<ul> <li>for AWG conductors</li> </ul>		
<ul> <li>for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)
<ul> <li>for auxiliary and control contacts</li> </ul>		
— solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded		
<ul><li>— with core end processing</li></ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>— without core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Connectable conductor cross-section		
<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		

<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 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	7.5 5.3

## Certificates/ approvals:

General Product Approval	EMC	Declaration of	Test
		Conformity	Certificates











Typprüfbescheinigu ng/Werkszeugnis

## other

Umweltbestätigung

## Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF24\_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

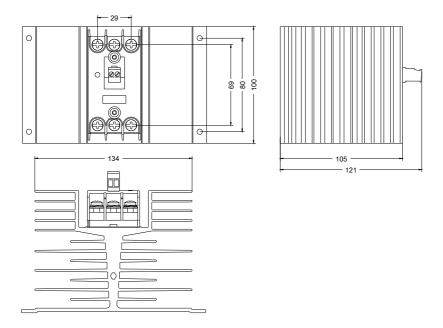
Cax online generator

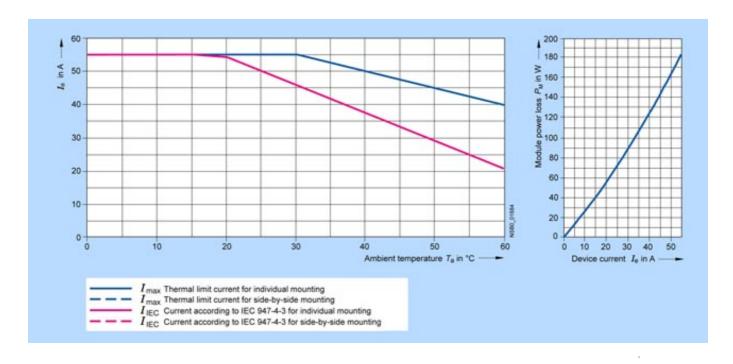
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF24503AC55}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF24503AC55

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF24503AC55&lang=en





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