# SIEMENS

## **Product data sheet**

## 3RF2150-2AA26



SEMICONDUCTOR RELAY 3RF2, 1-PH. WIDTH 22.5MM, 50 A 48-600 V / 110-230 V AC SPRING-LOADED TERMINAL

Product brand name		SIRIUS
product designation		solid-state relays
Product function		zero-point switching
Number of poles / for main current circuit		1
Protection class IP		IP20
Ambient temperature		
during operating	°C	-25 60
during storage	°C	-55 80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		К
according to DIN EN 61346-2		Q
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0

Number of NO contacts / for main contacts		1
Number of NC contacts / for main contacts	_	0
Operating current		
• at AC-1 / at 400 V / rated value	А	50
• at AC-51 / rated value	А	50
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	48 600
• at 60 Hz / at AC / rated value	V	48 600
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 660
• at 60 Hz / for AC	V	40 660
Operating frequency		
rated value	Hz	50 60
Relative symmetrical tolerance / of the operation frequency	%	10
Insulation voltage / rated value	V	600
Voltage slew rate / at the thyristor / for main contacts / maximum permissible	V/µs	1,000
Block voltage / at the thyristor / for main contacts / maximum permissible	V	1,600
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Active power loss / total / typical	W	66
Resistance against the impulse current / rated value	А	600
I2t-level / maximum	A²·s	1,800
Control circuit:		
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1		
• at 50 Hz / for AC		
initial rated value	V	110
final rated value	V	230
• at 60 Hz / for AC		
initial rated value	V	110
final rated value	V	230
Control supply voltage		
• at 50 Hz / for AC / final value for signal<0>-recognition	V	40
<ul> <li>at 60 Hz / for AC / final value for signal&lt;0&gt;-recognition</li> </ul>	V	40

Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the supply voltage frequency	%	10
Control current		
<ul> <li>at minimum control supply voltage / for AC</li> </ul>	mA	2
• for AC / rated value	mA	15
<ul> <li>at minimum control supply voltage / for DC</li> </ul>	mA	2
• for DC / rated value	mA	6
Fuse assignments		https://www.automation.siemens.com/cd-

Installation/mounting/dimensions:

static/material/info/3RF21\_eng.pdf

installation/mounting/unitensions.				
Type of mounting		screw fixing		
Type of fixing/fixation / series installation		Yes		
Design of the thread / of the screw for fastening of the operating resource		M4		
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5		
Width	mm	22.5		
Height	mm	85		
Depth	mm	48		

Connections:		
Design of the electrical connection / for main current circuit		spring-loaded terminals
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Tightening torque (Ibf-in) / for main contacts		
with screw-type terminals	lbf•in	7 10.3
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 2.5 mm2)
finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (0.5 1.5 mm2)
without conductor final cutting		2x (0.5 2.5 mm2)
for AWG conductors		
• for main contacts		2x (18 14)
<ul> <li>for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)
<ul> <li>for auxiliary and control contacts</li> </ul>		
• solid		0.5 1.5 mm2
finely stranded		
<ul> <li>with conductor end processi</li> <li>ng</li> </ul>		0.5 2.5 mm2

without conductor final cut		0.5 2.5 mm2
ting		
Conductor cross section that can be connected		
for main contacts		
• solid	mm²	0.5 2.5
stranded wire		
<ul> <li>with conductor end processing</li> </ul>	mm²	0.5 1.5
without conductor final cutting	mm²	0.5 2.5
<ul> <li>for auxiliary and control contacts</li> </ul>		
• solid	mm²	0.5 1.5
stranded wire		
<ul> <li>with conductor end processing / minimum</li> </ul>	mm²	0.5 2.5
without conductor final cutting	mm²	0.5 2.5
AWG number / as coded connectable conductor cross-section / for main contacts		18 14
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
AWG number / as coded connectable conductor cross-section		
<ul> <li>for auxiliary and control contacts</li> </ul>		20 12
Skinning length / of the cable / for main contacts	mm	10
Skinning length / of the cable / for auxiliary and control contacts	mm	10

Certificates/approvals

Certificates/ap	provais:		
General Produc	t Approval	Test Certificates	other
	ROSTEST	Manufacturer	Manufacturer

Eurther	information:
Further	information:

Information- and Downloadcenter (Catalogs, Brochures,)	
http://www.siemens.com/industrial-controls/catalogs	

### Industry Mall (Online ordering system)

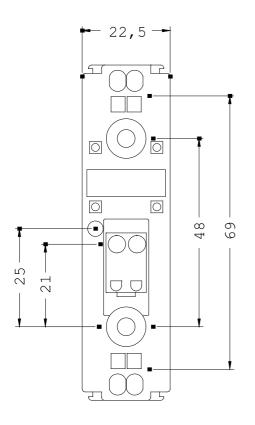
http://www.siemens.com/industrial-controls/mall

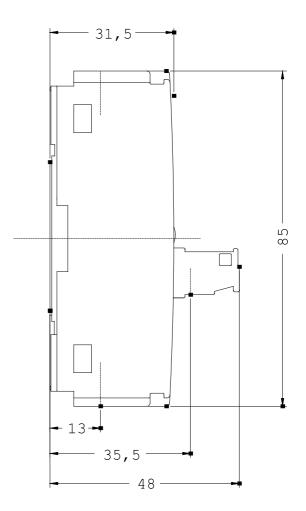
#### CAx-Online-Generator

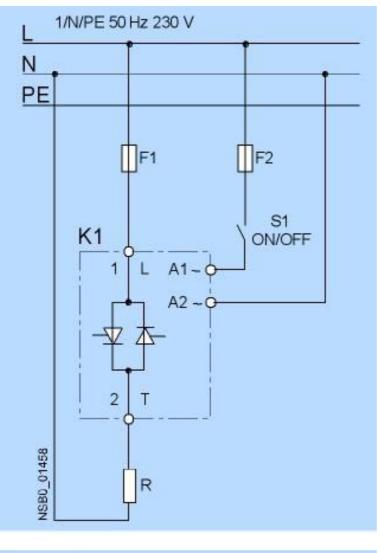
http://www.siemens.com/cax

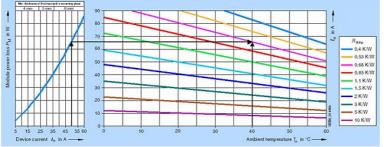
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2150-2AA26/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2150-2AA26









last change:

Aug 22, 2011