# SIEMENS

## **Product data sheet**

### 3RF2330-1AA06



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 30 A 40 DEGREES C 48-600 V / 24 V DC 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	<u>3RF2900-3PA88</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	3RF2950-0GA16
Product designation / _5 / of the accessories that can be ordered	load monitoring, basis
Manufacturer article number / _5 / of the accessories that can be ordered	3RF2920-0FA08
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
Main circuit:		
Number of NO contacts / for main contacts		1
	-	
Number of NC contacts / for main contacts		0
Operating current	٨	20
at AC-1 / at 400 V / rated value	A	30
• at AC-51 / rated value	A	30
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	33
Resistance against the impulse current / rated value	А	600
I2t-level / maximum	A²·s	1,800
Control circuit:		

Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC		
initial rated value	V	15
final rated value	V	24
Control supply voltage		
<ul> <li>for DC / final value for signal&lt;0&gt;-recognition</li> </ul>	V	5
Control current		
<ul> <li>at minimum control supply voltage / for DC</li> </ul>	mA	2
• for DC / rated value	mA	15
Fuse assignments		https://www.automation.siemens.com/cd- static/material/info/3RF21_eng.pdf

Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
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	45
Height	mm	100
Depth	mm	140.5

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Design of the 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 (Ibf·in) / for main contacts		
with screw-type terminals	lbf∙in	18 22
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 2.5 mm2), 2x (2.5 6 mm2)
finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (1 2.5 mm2), 2x (2.5 6 mm2), 1x 10 mm2
for AWG conductors		
for main contacts		2x (14 10)
<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			
with conductor end processi		1x (0.5	2.5 mm2), 2x (0.5 1.0 mm2)
ng			
<ul> <li>without conductor final cut ting</li> </ul>		1x (0.5	2.5 mm2), 2x (0.5 1.0 mm2)
Conductor cross section that can be connected			
for main contacts			
• solid	mm²	1.5 6	i
stranded wire			
<ul> <li>with conductor end processing</li> </ul>	mm²	1 10	
<ul> <li>for auxiliary and control contacts</li> </ul>			
• solid	mm²	0.5 2	2.5
stranded wire			
<ul> <li>with conductor end processing / minimum</li> </ul>	mm²	0.5 2	5
<ul> <li>without conductor final cutting</li> </ul>	mm²	0.5 2.5	
AWG number / as coded connectable conductor cross-section / for main contacts		10 14	4
Design of the electrical connection / for auxiliary and control current circuit		screw-t	ype terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3	
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	7	
Skinning length / of the cable / for auxiliary and control contacts	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		ä.3
Certificates/approvals:			
General Product Approval	Test Certificates		other
	Manufacture	ŗ	Manufacturer

# Further information:

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

#### Industry Mall (Online ordering system)

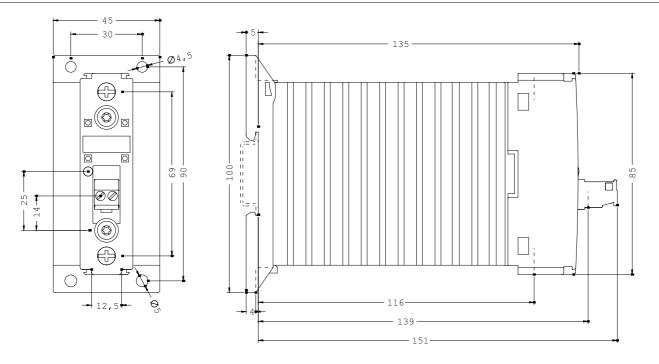
http://www.siemens.com/industrial-controls/mall

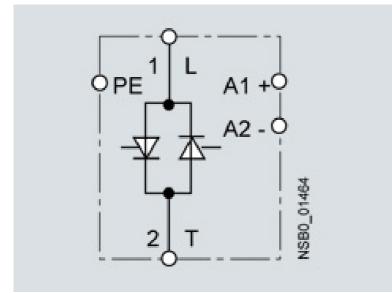
#### CAx-Online-Generator

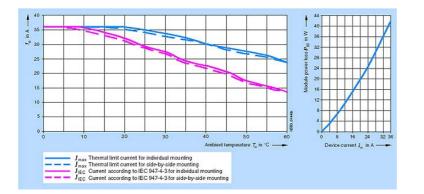
http://www.siemens.com/cax

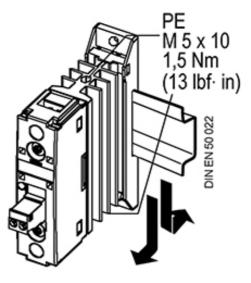
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2330-1AA06/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2330-1AA06









last change:

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