## **SIEMENS**

Product data sheet 3RF2370-1BA06

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70A/AC15 27.5A 40 DEG. C 48-600 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		3RF2900-3PA88		
Product designation / _2 / of the accessories that can be ordered		power regulator		
Manufacturer article number / _2 / of the accessories that can be ordered		3RF2950-0HA16		
Product designation / _3 / of the accessories that can be ordered		converter		
Manufacturer article number / $\_3$ / of the accessories that can be ordered		3RF2900-0EA18		
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		
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		
• at AC-1 / at 400 V / rated value	Α	70
• at AC-51 / rated value	Α	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	83
Resistance against the impulse current / rated value	А	1,150
I2t-level / maximum	A²·s	6,600
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		
• for DC / final value for signal<0>-recognition	V	5
Control current		
• at minimum control supply voltage / for DC	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 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	135
Height	mm	100
Depth	mm	157.5
Connections:		
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 (lbf·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		
with conductor end processing		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)
for auxiliary and control contacts		
• solid		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
• finely stranded		
<ul> <li>with conductor end processi</li> <li>ng</li> </ul>		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
without conductor final cut ting		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
• stranded wire		
<ul> <li>with conductor end processing</li> </ul>	mm²	1 10
for auxiliary and control contacts		
• solid	mm²	0.5 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
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
AWG number / as coded connectable conductor cross-section		
• for auxiliary and control contacts		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 5.3

## Certificates/approvals:

**General Product Approval** 

Test Certificates

other



**ROSTEST** 



Manufacturer

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** 

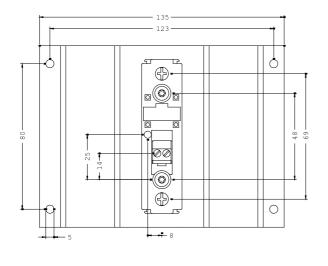
http://www.siemens.com/cax

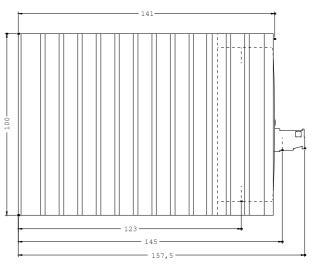
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

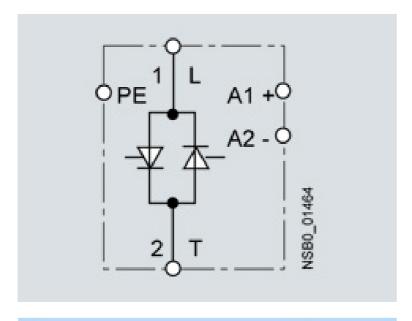
http://support.automation.siemens.com/WW/view/en/3RF2370-1BA06/all

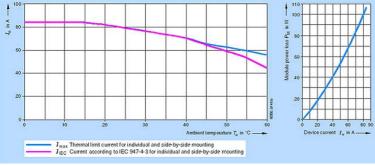
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

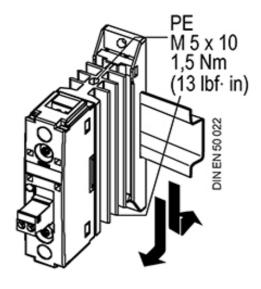
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2370-1BA06











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