## SIEMENS

## Product data sheet

## 3RF2370-3AA02

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70 A 40 DEGREES C 24-230 V / 24 V DC RING 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 / $_3$ / 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		3RF2990-0GA13
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	А	70
• at AC-51 / rated value	А	70
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	24 230
• at 60 Hz / at AC / rated value	V	24 230
Working area related to the operating voltage		
• at 50 Hz / for AC	V	20 253
• at 60 Hz / for AC	V	20 253
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	800
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
l2t-level / maximum	A²·s	6,600
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC		

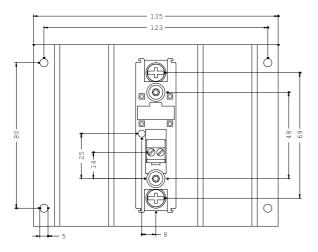
initial rated value	V	15
• final rated value	V	24
Control supply voltage	-	
<ul> <li>for DC / final value for signal&lt;0&gt;-recognition</li> </ul>	V	5
Control current		
<ul> <li>at minimum control supply voltage / for DC</li> </ul>	mA	2
• for DC / rated value	mA	15
Fuse assignments	-	https://www.automation.siemens.com/cd-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

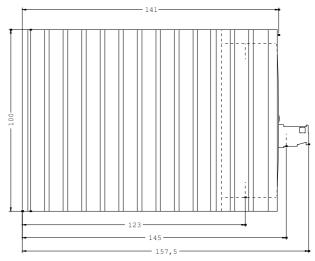
Installation/mounting/dimensions:		
Type of mounting		screw fixing
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	135
Height	mm	100
Depth	mm	157.5

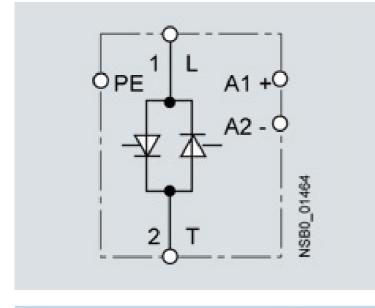
Connections:		
Design of the electrical connection / for main current circuit		ring cable connection
Design of the thread / of the connection screw / for main contacts	-	M5
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Type of the connectable conductor cross-section		
for 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
for AWG conductors		
<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 conductor end processi</li> <li>ng</li> </ul>		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
<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		
<ul> <li>for auxiliary and control contacts</li> </ul>		
• solid	mm²	0.5 2.5

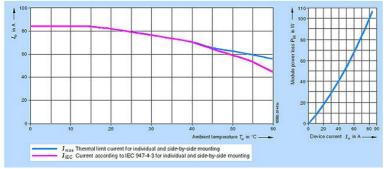
stranded wire				
with conductor end processing /	mm²	0.5 2	2.5	
minimum		0.0 2		
without conductor final cutting	mm²	0.5 2.5		
Design of the electrical connection / for auxiliary and control current circuit		ring cable connection		
Design of the thread / of the connection screw / of the auxiliary and control pins		M3	МЗ	
AWG number / as coded connectable conductor cross-section				
<ul> <li>for auxiliary and control contacts</li> </ul>		20 1	2	
Skinning length / of the cable / for main contacts	mm	10		
Skinning length / of the cable / for auxiliary and control contacts	mm	10		
Tightening torque / for auxiliary and control contacts				
with screw-type terminals	N∙m	0.5 0		
Tightening torque (Ibf·in) / for auxiliary and control contacts				
with screw-type terminals	lbf∙in	4.5 5.3		
Certificates/approvals:				
General Product Approval	Test Certific	ates	other	
	Manufacture	ŗ	<u>Manufacturer</u>	_
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/3RF2370-3AA02/				

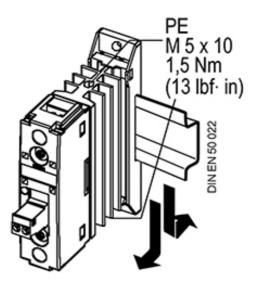
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2370-3AA02











last change:

Aug 22, 2011