SIEMENS

Product data sheet 3RF2370-3AA04

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 70 A 40 DEGREES C 48-460 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		3RF2990-0GA16
Ambient temperature		
during operating	°C	-25 +60
during storage	°C	-55 +80
Installation altitude / at a height over sea level / maximum	m	1,000

2g
15g / 11 ms
К
Q
0
0
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	70
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	48 460
at 60 Hz / at AC / rated value	V	48 460
Working range relative to the operating voltage		
• at 50 Hz / with AC	V	40 506
• at 60 Hz / with AC	V	40 506
Operating frequency		
rated value	Hz	50 60
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	1,200
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/ Control:		
Voltage type / of control feed 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/3RF23_eng.pdf

Installation/ mounting/ dimensions:		
Mounting type		screw fixing
Mounting type / 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/ terminals:		
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
• for DIN cable lug / for main contacts		DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
• for AWG conductors		
 for auxiliary and control contacts 		1x (AWG 20 12)
• for auxiliary and control contacts		
• solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
• finely stranded		
 with conductor end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
without conductor final cutting		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Conductor cross section that can be connected		
for auxiliary and control contacts		
• solid	mm²	0.5 2.5
• stranded wire		
 with conductor end processing / 	mm²	0.5 2.5
 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
AWG number / as coded connectable conductor cross-section		
for auxiliary and control contacts		20 12
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 0.6
Tightening torque (lbf-in) / for auxiliary and control contacts		
with screw-type terminals	lbf-in	4.5 5.3

Certificates/ approvals:

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Type Test
Certificates/Test
Report

other

Environmental Confirmations

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

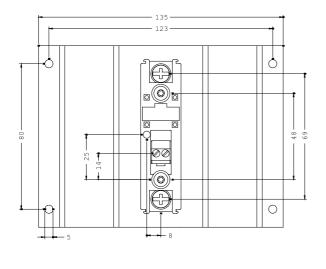
http://www.siemens.com/cax

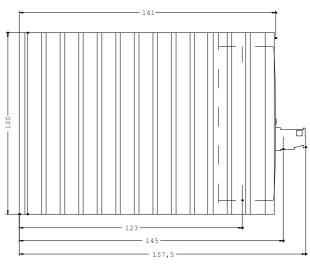
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

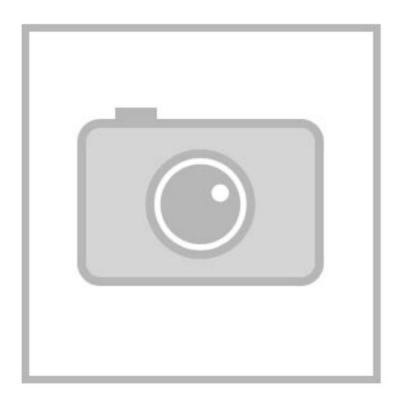
http://support.automation.siemens.com/WW/view/en/3RF2370-3AA04/all

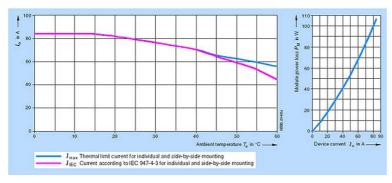
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

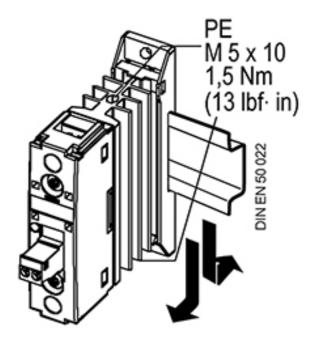
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2370-3AA04











last change: Mar 17, 2014