# **SIEMENS**

Product data sheet 3RF2340-1AA04



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 40 A 40 DEGREES C 48-460 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		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		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	
according to DIN 40719 extendable after IEC 204-2 / according to IEC 750	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	40
at AC-51 / rated value	Α	40
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 area related to the operating voltage		
• at 50 Hz / for AC	V	40 506
• at 60 Hz / for AC	V	40 506
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	1,200
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Active power loss / total / typical	W	44
Resistance against the impulse current / rated value	А	1,200
I2t-level / maximum	A²-s	7,200

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 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	67.5
Height	mm	100
Depth	mm	156

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		
<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)
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 processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

<ul> <li>without conductor final cutting</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
• stranded wire		
with conductor end processing	mm²	1 10
for auxiliary and control contacts		
• solid	mm²	0.5 2.5
• stranded wire		
<ul> <li>with conductor end processing /</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		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**







Special Test

Certificate

**Test Certificates** 

Type Test
Certificates/Test
Report

#### other

Declaration of Conformity



### Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

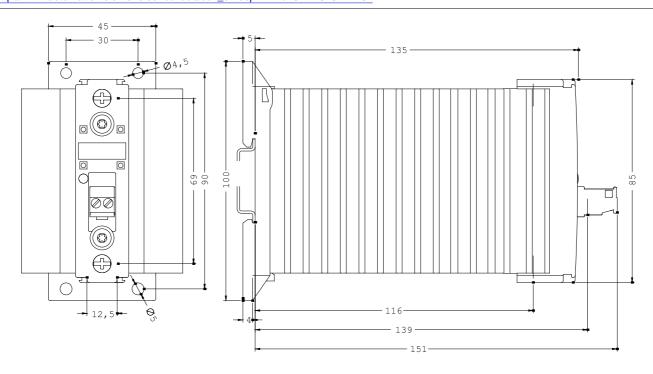
http://www.siemens.com/industrial-controls/mall

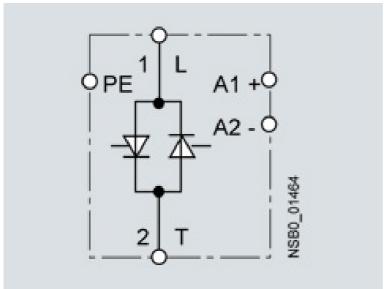
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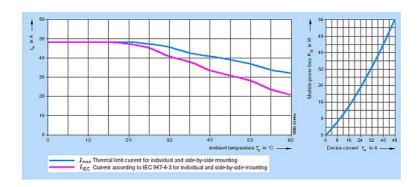
http://www.siemens.com/cax

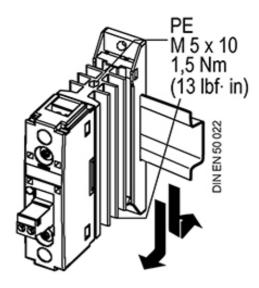
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2340-1AA04









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