## SIEMENS

## **Product data sheet**

## 3RF2410-2AC45



SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 10A 40 DEG. C 48-600V / 4-30V DC 3-PHASE CONTROLLED SPRING-LOADED CONNECTION BLOCKING VOLTAGE 1200V

General technical data:		
Product brand name		SIRIUS
product designation		solid-state contactor
Product function		zero-point switching
Number of poles / for main current circuit		3
Protection class IP		IP20
Product designation / _2 / of the accessories that can be ordered		converter
Manufacturer article number / $_2$ / of the accessories that can be ordered		3RF2900-0EA18
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		3
Number of NC contacts / for main contacts	_	0
Operating current / at AC-1 / at 400 V / rated value	А	10
Operating current / at AC-51 / rated value	А	10
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Operating current / minimum	mA	100
Resistance against the impulse current / rated value	А	300
I2t-level / maximum	A <sup>2</sup> ·s	450
Operating voltage		
• at 50 Hz / at AC / rated value	V	48 600
• at 60 Hz / at AC / rated value	V	48 480
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	500
Block voltage / at the thyristor / for main contacts / maximum permissible	V	1,200
Fuse assignments		https://www.automation.siemens.com/cd- static/material/info/3RF24_eng.pdf
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC	V	4 30
Control supply voltage / for DC / final value for signal<0>- recognition	V	1

frequency

**Control current** 

Tolerance of the line frequency

Relative symmetrical tolerance / of the supply voltage

• at minimum control supply voltage / for AC

• at minimum control supply voltage / for DC

Hz

%

mA

mA

5

10

2

2

• for DC / rated value	mA	15
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	104.5

Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section	_	
for main contacts		
• solid		2x (0.5 2.5 mm2)
• finely stranded		
with conductor end processing		2x (0.5 1.5 mm2)
without conductor final cutting		2x (0.5 2.5 mm2)
for AWG conductors		
for main contacts		2x (18 14)
<ul> <li>for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)
for auxiliary and control contacts		
• solid		0.5 1.5 mm2
finely stranded		
<ul> <li>with conductor end processi</li> <li>ng</li> </ul>		0.5 2.5 mm2
• without conductor final cut ting		0.5 2.5 mm2
Conductor cross section that can be connected	_	
• for main contacts		
• solid	mm²	0.5 2.5
stranded wire		
with conductor end processing	mm²	0.5 1.5
<ul> <li>without conductor final cutting</li> </ul>	mm²	0.5 2.5
<ul> <li>for auxiliary and control contacts</li> </ul>		
• solid	mm²	0.5 1.5
stranded wire		
<ul> <li>with conductor end processing / minimum</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		14 10
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
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	10
Skinning length / of the cable / for auxiliary and control contacts	mm	10

Certificates/ap	provals:		
General Produc	ct Approval	Test Certificates	other
	ROSTEST	Manufacturer	Manufacturer

Eurthor	information:
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

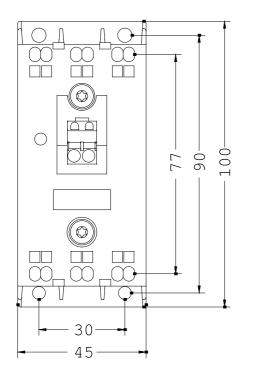
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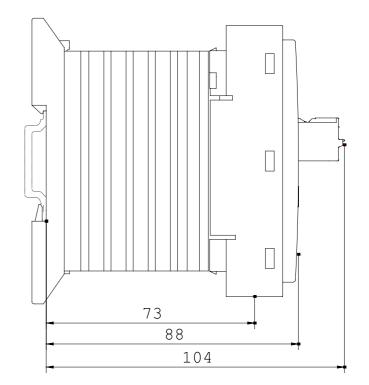
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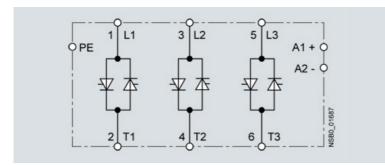
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

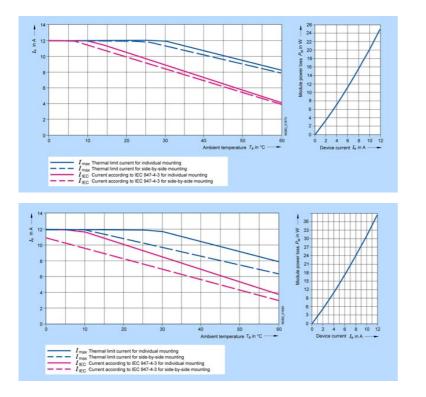
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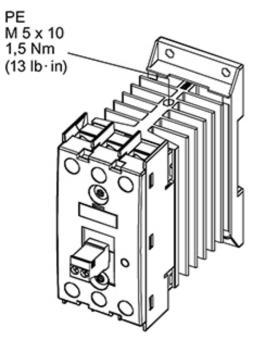
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2410-2AC45











last change:

Aug 22, 2011