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		
 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		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 ² ·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)
 for auxiliary and control contacts 		1x (AWG 20 12)
for auxiliary and control contacts		
• solid		0.5 1.5 mm2
finely stranded		
 with conductor end processi ng 		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
 without conductor final cutting 	mm²	0.5 2.5
 for auxiliary and control contacts 		
• solid	mm²	0.5 1.5
stranded wire		
 with conductor end processing / minimum 	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		
 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

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

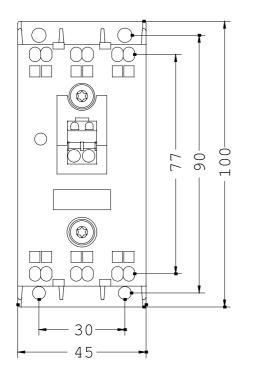
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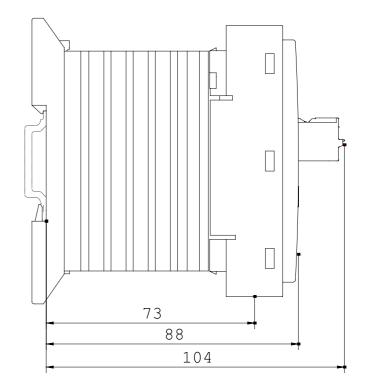
http://www.siemens.com/cax

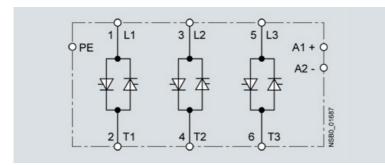
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

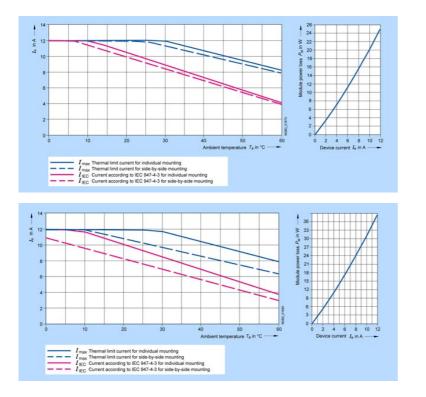
http://support.automation.siemens.com/WW/view/en/3RF2410-2AC45/all

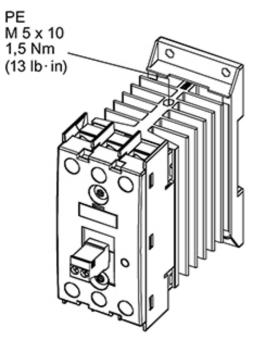
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2410-2AC45











last change:

Aug 22, 2011