SIEMENS

Data sheet 3RF2410-2AC45



Solid-state contactor 3-phase 3RF2 AC 51 / 10 A / 40 $^{\circ}$ C 48-600 V / 4-30 V DC 3-phase controlled Spring-type terminal Blocking voltage 1200 V

product brand name product designation design of the product product type designation manufacturer's article number

- _2 of the accessories that can be ordered product designation
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SIRIUS

solid-state contactor three-phase controlled 3RF24

3RF2900-0EA18

converter

General technical data

product function

power loss [W] for rated value of the current

- at AC in hot operating state
- at AC in hot operating state per pole
- without load current share typical

insulation voltage rated value degree of pollution

type of voltage of the control supply voltage surge voltage resistance of main circuit rated value

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 reference code according to IEC 81346-2

Substance Prohibitance (Date)

zero-point switching

31 W

10.33 W 0.9 W

600 V

00

3

DC 6 kV

15g / 11 ms

2g Q

07/01/2006

Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts

operating voltage at AC

- at 50 Hz rated value
- at 60 Hz rated value

operating frequency rated value

relative symmetrical tolerance of the operating frequency

operating range relative to the operating voltage at AC

- at 50 Hz
- at 60 Hz

operational current

- at AC-51 rated value
- at AC-51 according to IEC 60947-4-3
- according to UL 508 rated value

operational current minimum

rate of voltage rise at the thyristor for main contacts maximum permissible

3

3

48 ... 600 V

48 ... 600 V

50 ... 60 Hz

10 %

40 ... 660 V

40 ... 660 V

10.5 A

7 A

7 A

500 mA

500 V/µs

blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	300 A
12t value maximum	450 A²·s
Control circuit/ Control	
	DC
type of voltage of the control supply voltage	DC
control supply voltage 1	20.1/
at DC rated valueat DC	30 V 4 30 V
	4 30 V
control supply voltage	AM
at DC initial value for signal <1> detection A DC full people value for signal <0> recognition	4 V 1 V
at DC full-scale value for signal<0> recognition	
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage • at DC	22 mA
	30 mA
control current at DC rated value	33
ON-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm
	according to IEC 60715
 side-by-side mounting 	Yes
design of the thread of the screw for securing the equipment	M4
height	95 mm
width	45 mm
depth	96.5 mm
-	
Connections/ Terminals	
Connections/ Terminals type of electrical connection	spring-loaded terminals
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installation altitude at height above sea level maximum ambient temperature

• during operation

during storage

1 000 m

-25 ... +60 °C -55 ... +80 °C

Electromagnetic compatibility

conducted interference

due to burst according to IEC 61000-4-4

 due to conductor-earth surge according to IEC 61000-4-5

 due to conductor-conductor surge according to IEC 61000-4-5

 due to high-frequency radiation according to IEC 61000-4-6

electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

2 kV / 5 kHz behavior criterion 2

2 kV behavior criterion 2

1 kV behavior criterion 2

140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1

4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment

Class A for industrial environment

Short-circuit protection, design of the fuse link

manufacturer's article number

• of full range R fuse link for semiconductor protection at NH design usable

• of full range R fuse link for semiconductor protection at cylindrical design usable

• of back-up R fuse link for semiconductor protection at NH design usable

• of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable

• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable

• of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable

manufacturer's article number of the gG fuse at NH design usable

• up to 460 V

3NE1813-0

5SE1310; Maximum operating voltage 400 V!

3NE8015-1

3NC1016

3NC1420

3NC2220

<u>3NA3801</u>; These fuses have a smaller rated current than the semiconductor relays

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation



FAI





Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

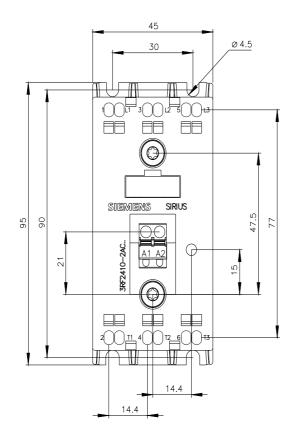
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2410-2AC45

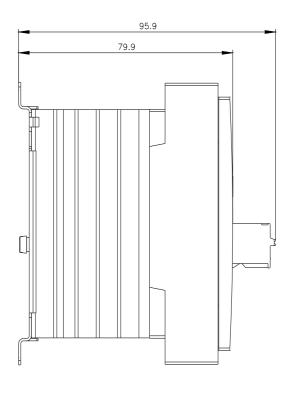
Cax online generator

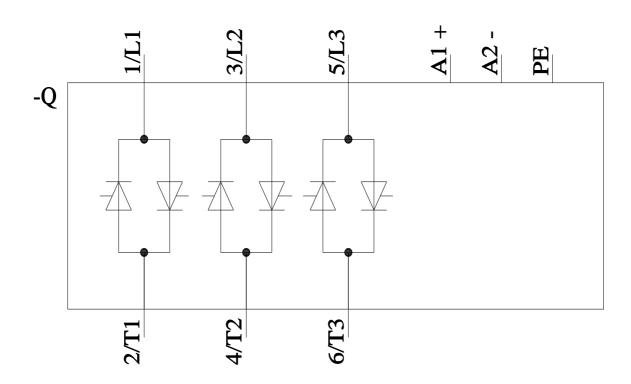
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2410-2AC45

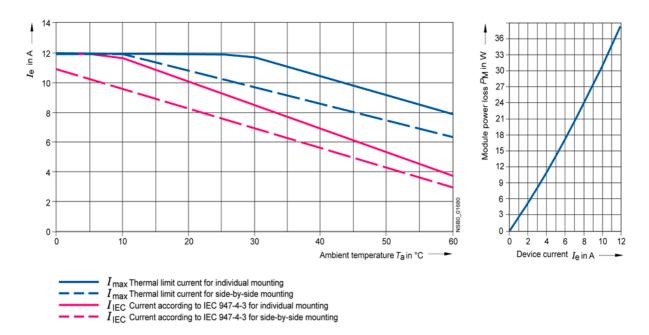
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RF2410-2AC45









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