SIEMENS

Data sheet 3RF2320-3AA26



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40 $^{\circ}\text{C}$ 48-600 V / 110-230 V AC Ring cable connection

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

- _1 of the accessories that can be ordered
- _4 of the accessories that can be ordered

product designation

- _1 of the accessories that can be ordered
- 4 of the accessories that can be ordered

SIRIUS

solid-state contactor single-phase

3RF23

3RF2900-3PA88

3RF2920-0GA36

terminal cover load monitoring

load

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

20 W

20 W

3.5 W

600 V

3

AC

6 kV

15g / 11 ms

2g Q

05/28/2009

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

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

1

1

0

48 ... 600 V

48 ... 600 V 50 ... 60 Hz

40 ... 660 V

40 ... 660 V

20 A

13.2 A

17.6 A

500 mA

1 000 V/µs

blocking voltage at the thyristor for main contacts	1 600 V
maximum permissible	
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	600 A
I2t value maximum	1 800 A ² ·s
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC • at 50 Hz	110 230 V
• at 60 Hz	110 230 V 110 230 V
control supply voltage frequency	110 230 V
1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	
at 50 Hz full-scale value for signal<0> recognition	40 V
at 60 Hz full-scale value for signal<0> recognition	40 V
control supply voltage	
 at AC initial value for signal <1> detection 	90 V
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms; additionally max. one half-wave
OFF-delay time	40 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	
design of the thread of the screw for securing the equipment	Yes M4
design of the thread of the screw for securing the equipment height	Yes M4 95 mm
design of the thread of the screw for securing the equipment height width	Yes M4 95 mm 22.5 mm
design of the thread of the screw for securing the equipment height width depth	Yes M4 95 mm
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals	Yes M4 95 mm 22.5 mm
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection	Yes M4 95 mm 22.5 mm 120 mm
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design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts - solid - finely stranded with core end processing	Yes M4 95 mm 22.5 mm 120 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
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Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Short-circuit protection, design of the fuse link	
manufacturer's article number	
 of gS fuse for semiconductor protection at NH design usable 	<u>3NE1814-0</u>
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1325</u>
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE8015-1</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	<u>3NC1032</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	<u>3NC1450</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2250
manufacturer's article number of the gG fuse	
at NH design usable	<u>3NA6807-6</u>

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation









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)

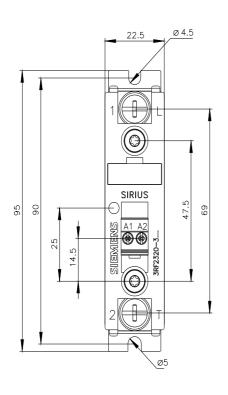
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-3AA26

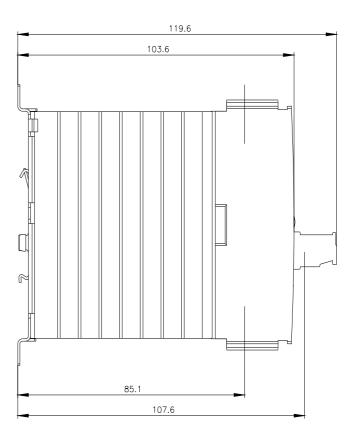
Cax online generator

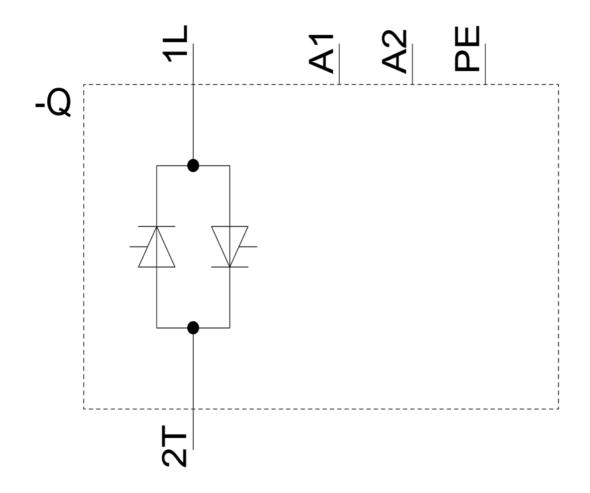
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-3AA26

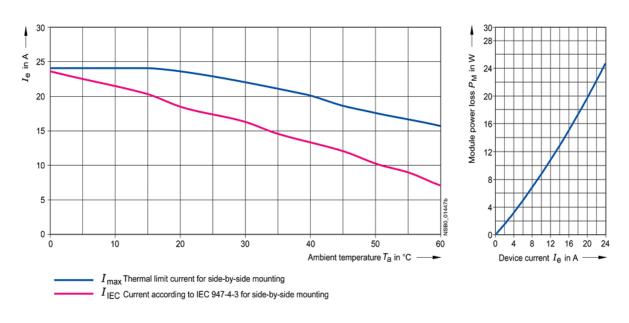
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-3AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2320-3AA26&lang=en









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