SIEMENS

Data sheet 3RF2320-2AA22



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40 $^{\circ}\text{C}$ 24-230 V / 110-230 V AC Spring-type terminal

product brand name product designation design of the product product type designation

General technical data

SIRIUS solid-state contactor single-phase 3RF23

Scheral technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	20 W
 without load current share typical 	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	AC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
• at 50 Hz rated value	24 230 V
• at 60 Hz rated value	24 230 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
● at 50 Hz	20 253 V
● at 60 Hz	20 253 V
operational current	
• at AC-51 rated value	20 A
at AC-51 according to IEC 60947-4-3	13.2 A
 according to UL 508 rated value 	17.6 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs
blocking voltage at the thyristor for main contacts maximum permissible	800 V
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

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protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	Safety related data	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	protection class IP on the front according to IEC	IP20
Ambient conditions	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Ambient conditions	Ambient conditions	

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

field-based interference according to IEC 61000-4-3 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

80 MHz ... 1 GHz 10 V/m, behavior criterion 1

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

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

• 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

• at cylindrical design 10 x 38 mm usable

• at cylindrical design 14 x 51 mm usable

• at cylindrical design 22 x 58 mm usable

manufacturer's article number

• of DIAZED fuse usable

• of NEOZED fuse usable

3NE1814-0

5SE1325

3NE8015-1

3NC1032

3NC1450

3NC2263

3NA6807

3NW6007-1

3NW6107-1

<u>3NW6207-1</u>; These fuses have a smaller rated current than the semiconductor relays

5SB2711

5SE2320

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation



EAC





Declaration of Conformity

Test Certificates

other

Railway



Type Test Certificates/Test Report

Special Test Certificate Confirmation



Vibration and Shock

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)

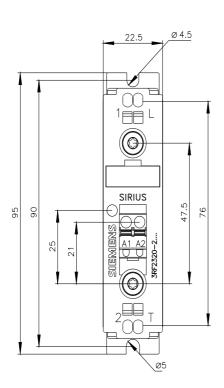
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-2AA22

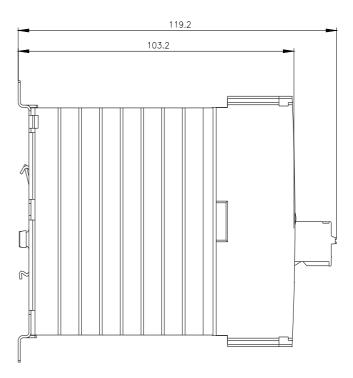
Cax online generator

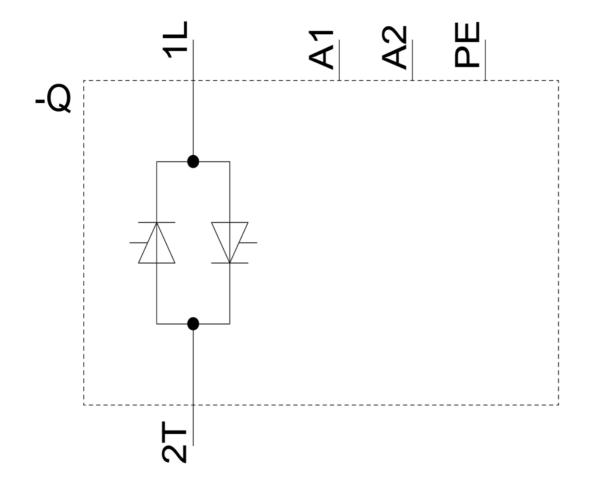
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-2AA22

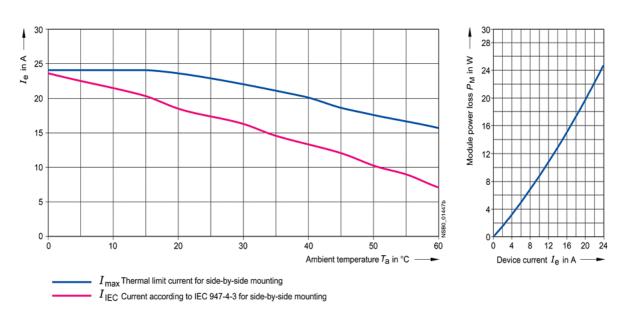
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-2AA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2320-2AA22&lang=en









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