SIEMENS

3RF2320-1DA04 **Data sheet**



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40 °C 48-460 V / 24 V DC short circuit-proof with B miniature circuit breaker

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

- _1 of the accessories that can be ordered
- _3 of the accessories that can be ordered
- _4 of the accessories that can be ordered
- _5 of the accessories that can be ordered

product designation

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- 4 of the accessories that can be ordered
- _5 of the accessories that can be ordered

SIRIUS

solid-state contactor

single-phase

3RF23

3RF2900-3PA88

3RF2900-0EA18

3RF2920-0GA16

3RF2920-0FA08

terminal cover

converter

load monitoring

load monitoring, basis

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)

short-circuit resistant with B-automatic device

20 W

20 W

0.4 W

600 V

3 DC

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

1 1 0

48 ... 460 V

48 ... 460 V

50 ... 60 Hz

40 ... 506 V

40 ... 506 V

20 A

1.40.54	10.0 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		
operational current of the MCB at AC rated value	20 A		
rate of voltage rise at the thyristor for main contacts	1 000 V/μs		
maximum permissible			
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	1 150 A		
I2t value maximum	6 600 A ² ·s		
Control circuit/ Control			
	DO.		
type of voltage of the control supply voltage	DC		
control supply voltage 1			
 at DC rated value 	30 V		
• at DC	15 24 V		
control supply voltage			
 at DC initial value for signal <1> detection 	15 V		
 at DC full-scale value for signal<0> recognition 	5 V		
control current at minimum control supply voltage			
• at DC	13 mA		
control current at DC rated value	15 mA		
ON-delay time	1 ms; additionally max. one half-wave		
OFF-delay time	1 ms; additionally max. one half-wave		
Auxiliary circuit	1 ms, additionally max. one half-wave		
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		
	associating to 1.20 oct 1.0		
• side-by-side mounting	Yes		
design of the thread of the screw for securing the			
	Yes		
design of the thread of the screw for securing the	Yes M4 95 mm		
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 Connections/ Terminals	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 22.5 mm 120 mm		
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Confirmation









Declaration of Conformity

Test Certificates

other

Railway



Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RF2320-1DA04

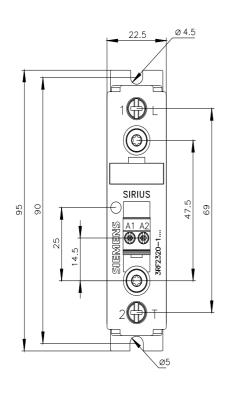
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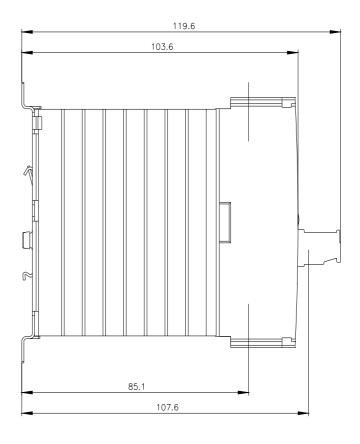
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2320-1DA04}$

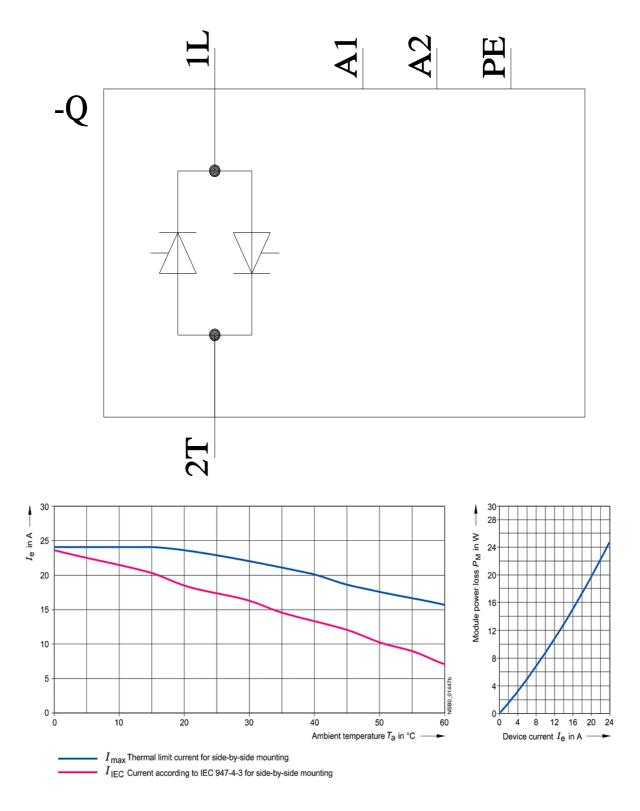
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1DA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2320-1DA04&lang=en







last modified: 1/26/2022 🖸