SIEMENS

3RF2320-1BA26 **Data sheet**



Solid-state contactor 1-phase 3RF2 AC 15 / 12 A / 40 °C 48-600 V / 110-230 V AC Instantaneous switching

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

- _1 of the accessories that can be ordered
- _2 of the accessories that can be ordered
- _4 of the accessories that can be ordered

product designation

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- · 4 of the accessories that can be ordered

SIRIUS

solid-state contactor

single-phase

3RF23

3RF2900-3PA88

3RF2920-0HA36

3RF2920-0GA36

terminal cover power regulator

load monitoring

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)

instantaneous switching

2g Q

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

20 W

20 W

3.5 W

600 V

AC

6 kV

15g / 11 ms

05/28/2009

1 1

0

48 ... 600 V

48 ... 600 V

50 ... 60 Hz

40 ... 660 V

40 ... 660 V

20 A

13.2 A

12 A

	500 m 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	1 600 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
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	7.0
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	
• 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
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	
	screw fixing and snap-on mounting on standard mounting rail 35 mm
Installation/ mounting/ dimensions fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715
fastening method	according to IEC 60715
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	according to IEC 60715 Yes M4
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height	according to IEC 60715 Yes M4 95 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width	according to IEC 60715 Yes M4 95 mm 22.5 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth	according to IEC 60715 Yes M4 95 mm
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• for auxiliary and control contacts with screw-type 0.5 ... 0.6 N·m terminals tightening torque [lbf·in] 18 ... 22 lbf·in • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 4.5 ... 5.3 lbf·in design of the thread of the connection screw M4 • for main contacts • of the auxiliary and control contacts М3 stripped length of the cable • for main contacts 7 mm · for auxiliary and control contacts 7 mm Safety related data protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front **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 2 kV behavior criterion 2 61000-4-5 • due to conductor-conductor surge according to IEC 1 kV behavior criterion 2 61000-4-5 • due to high-frequency radiation according to IEC 140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1 61000-4-6 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 Class A for industrial environment CISPR11 field-bound HF interference emission according to Class B for the domestic, business and commercial environments CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH 3NE1814-0 design usable • of full range R fuse link for semiconductor protection 5SE1325 at cylindrical design usable • of back-up R fuse link for semiconductor protection 3NE8015-1 at NH design usable • of back-up R fuse link for semiconductor protection 3NC1032 at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection 3NC1450 at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection 3NC2250 at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable 3NA6807-6 Certificates/ approvals **Declaration of EMC General Product Approval** Conformity



Confirmation









Declaration of Conformity

Test Certificates other Railway





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=3RF2320-1BA26

Cax online generator

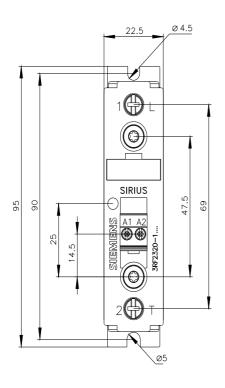
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1BA26

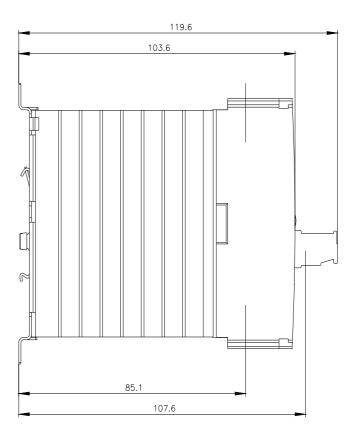
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

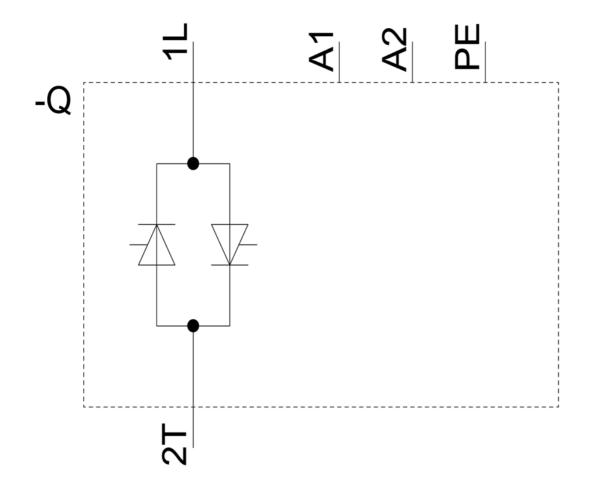
https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1BA26

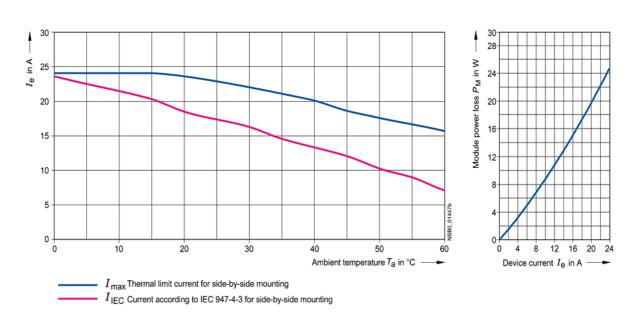
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1BA26&lang=en









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