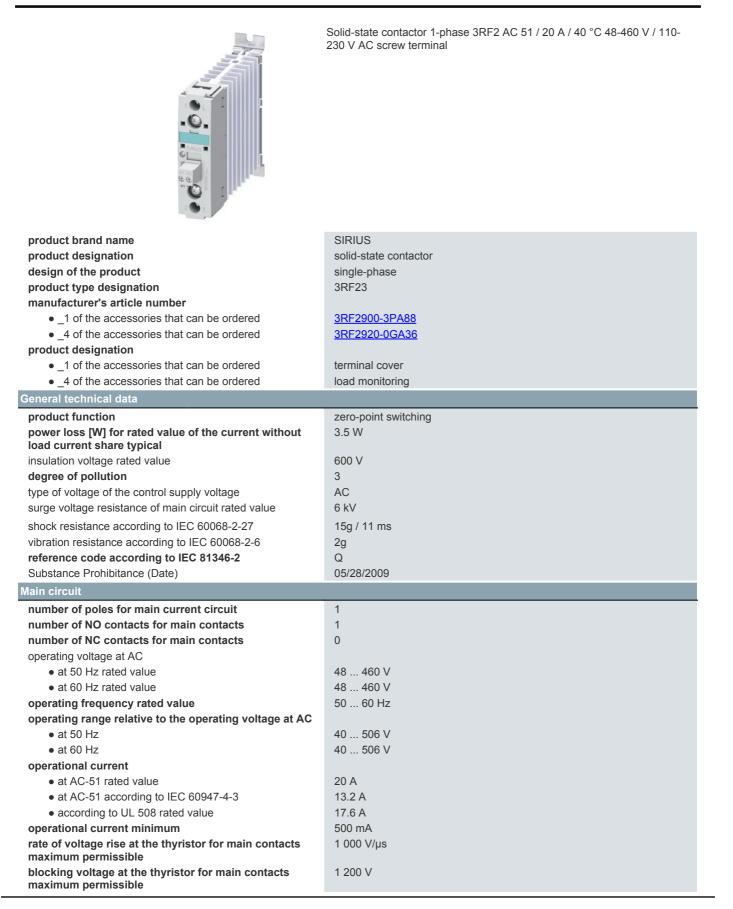
SIEMENS

Data sheet

3RF2320-1AA24



roverse current of the thurister	10 mA
reverse current of the thyristor	10 mA 40 °C
derating temperature surge current resistance rated value	40 °C 600 A
12t value maximum	1 800 A ² ·s
Control circuit/ Control	1000 A 3
	AC
type of voltage of the control supply voltage control supply voltage 1 at AC	AC
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	110 200 V
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	00112
• 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
height	95 mm
width	22.5 mm
depth	120 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²)
 finely stranded with core end processing 	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²
 at AWG cables for main contacts 	2x (14 10)
connectable conductor cross-section for main	
contacts	
solid or stranded	1.5 6 mm ²
 finely stranded with core end processing 	1 10 mm ²
type of connectable conductor cross-sections	
 for auxiliary and control contacts 	$4 \times (0.5 - 2.5 \text{ mm}^2) - 2 \times (0.5 - 4.0 \text{ mm}^2)$
— solid	$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.0 \text{ mm}^2)$
 finely stranded with core end processing finely stranded without core and processing 	$1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$
 finely stranded without core end processing at AWG cables for auxiliany and control contacts 	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
 at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross 	1x (AWG 20 12) 10 14
section for main contacts	IV 1 1
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	18 22 lbf·in
 for auxiliary and control contacts with screw-type 	4.5 5.3 lbf·in
terminals	
design of the thread of the connection screw	

for main contacts	M4
 of the auxiliary and control contacts 	M3
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 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 conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 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 	<u>3NC2263</u>
manufacturer's article number of the gG fuse	0110007
• at NH design usable	<u>3NA6807</u>
• at cylindrical design 10 x 38 mm usable	<u>3NW6005-1; These fuses have a smaller rated current than the</u> semiconductor relays
• at cylindrical design 14 x 51 mm usable	<u>3NW6105-1: These fuses have a smaller rated current than the</u> semiconductor relays
• at cylindrical design 22 x 58 mm usable	<u>3NW6205-1: These fuses have a smaller rated current than the</u> semiconductor relays
manufacturer's article number	
of DIAZED fuse usable	<u>5SB2711</u>
 of NEOZED fuse usable 	<u>5SE2320</u>
Certificates/ approvals	
General Product Approval	EMC Declaration of Conformity
Confirmation	
(SP) (U)	EAL 💿 RR
CSA UL	
Declaration of Test Certificates	other RCM CAR

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Conformity



Special Test Certificate <u>Type Test Certific-</u> <u>ates/Test Report</u> Confirmation



Vibration and Shock

Further information

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=3RF2320-1AA24

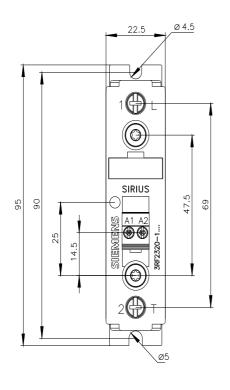
Cax online generator

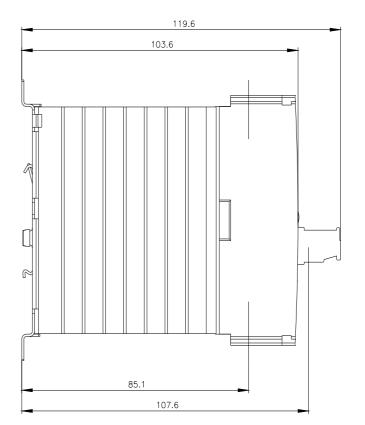
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1AA24

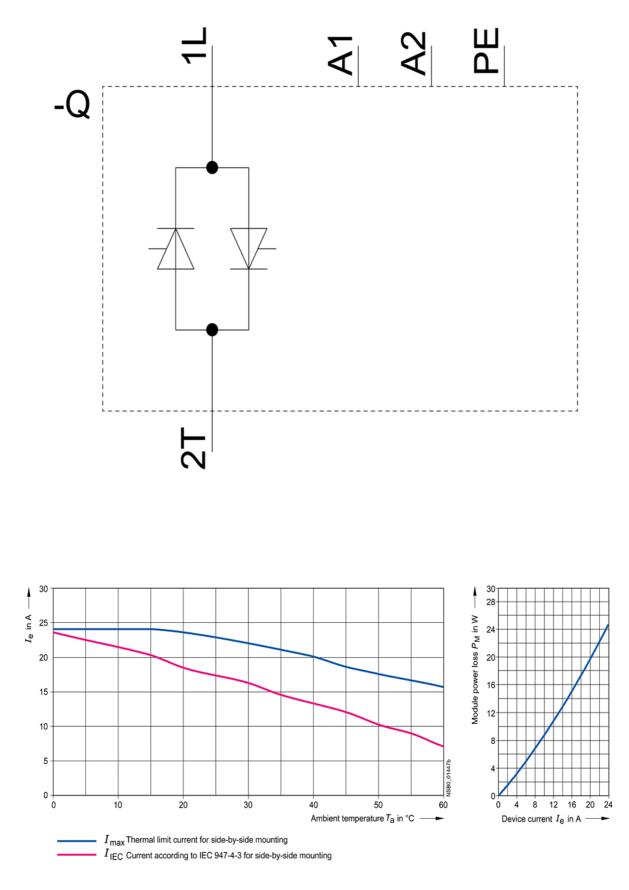
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1AA24

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1AA24&lang=en</u>







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