SIEMENS

Data sheet 3RF2320-1BA04

Solid-state contactor 1-phase 3RF2 AC 15 / 12 A / 40 $^{\circ}$ C 48-460 V / 24 V DC Instantaneous switching



product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
_1 of the accessories that can be ordered	3RF2900-3PA88
_2 of the accessories that can be ordered	3RF2920-0HA16
_3 of the accessories that can be ordered	3RF2900-0EA18
_4 of the accessories that can be ordered	3RF2920-0GA16
_5 of the accessories that can be ordered	3RF2920-0FA08
product designation	
_1 of the accessories that can be ordered	terminal cover
_2 of the accessories that can be ordered	power regulator
_3 of the accessories that can be ordered	converter
_4 of the accessories that can be ordered	load monitoring
_5 of the accessories that can be ordered	load monitoring, basis
General technical data	
• product function	instantaneous switching

at AC in hot operating state at AC in hot operating state per pole power loss [W] for rated value of the current without load current share typical insulation voltage a rated value begree of politition bype of voltage of the control supply voltage of the control supply voltage of the control supply voltage protection class IP protection class IP protection resistance acc. to IEC 60068-2-27 15g / 11 ms vibration resistance acc. to IEC 60068-2-6 geference code acc. to IEC 81346-2 Q Main circuit number of NO contacts for main current circuit number of NO contacts for main contacts number of NO contacts for main contacts at AC at 50 Hz rated value at 60 Hz rated value operating range relative to the operating voltage at AC at 50 Hz operational current at AC-1 at 400 V rated value operational current at AC-51 rated value operational current minimum 1 20 A operational current minimum operational current thinyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor 10 mA derating temperature 40 ° C surge current resistance rated value 6000 A Izt value maximum 1 800 Fs	power loss [W] for rated value of the current	
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vibration resistance	shock resistance	
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maximum permissible reverse current of the thyristor 10 mA derating temperature 40 °C surge current resistance rated value 600 A	•	
derating temperature 40 °C surge current resistance rated value 600 A		1 200 V
surge current resistance rated value 600 A	reverse current of the thyristor	10 mA
	derating temperature	40 °C
1 800 A ² ·s	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	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
switch ON delay time	1 ms
OFF delay time	1 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 and snap-on mounting onto 35 mm standard mounting rail
side-by-side mounting	Yes
height	100 mm
width	22.5 mm
depth	123.5 mm; 140.5 mm up to product revision E05
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 mm²), 2x (2.5 6 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main	
contacts	4.E. 6.mm²
• solid or stranded	1.5 6 mm²
• finely stranded with core end processing	1 10 mm²
type of connectable conductor cross-sections	
for auxiliary and control contacts	4v (0 F 2 F mm²) 2v (0 F 4 0 mm²)
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

finally atmosphally with a real parallel and a residue.	$1 \times (0.5 - 2.5 \text{ mm}^2) 2 \times (0.5 - 1.0 \text{ mm}^2)$
— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 at AWG cables for auxiliary and control contacts 	1x (AWG 20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	10 14
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 terminals 	4.5 5.3 lbf·in
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
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 acc. to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV behavior criterion 2
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV behavior criterion 2
 due to high-frequency radiation acc. to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
field-based interference acc. to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions acc. to CISPR11	Class A for industrial environment

field-bound HF interference emission acc. 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 	3NE8015-1
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1032
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1450
 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	
• at NH design usable	3NA6807
• at cylindrical design 10 x 38 mm usable	3NW6005-1; These fuses have a smaller rated current than the semiconductor relays
• at cylindrical design 14 x 51 mm usable	3NW6105-1; These fuses have a smaller rated current than the semiconductor relays
• at cylindrical design 22 x 58 mm usable	3NW6205-1; These fuses have a smaller rated current than the semiconductor relays
manufacturer's article number	
 of DIAZED fuse usable 	<u>5SB171</u>
 of NEOZED fuse usable 	<u>5SE2320</u>

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Test Certificates

other

Railway

Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Vibration and Shock

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

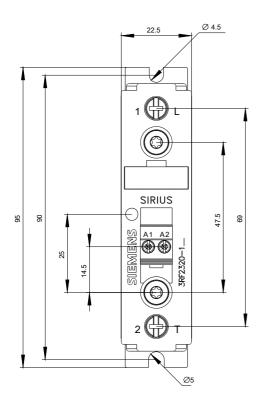
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-1BA04

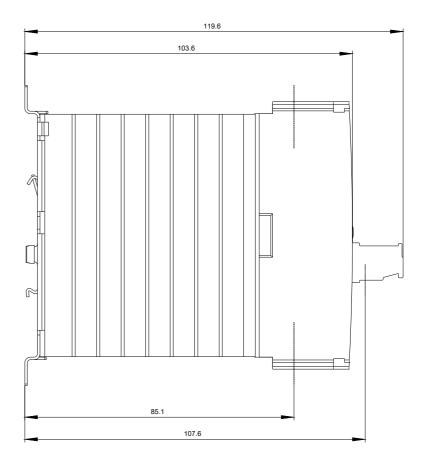
Cax online generator

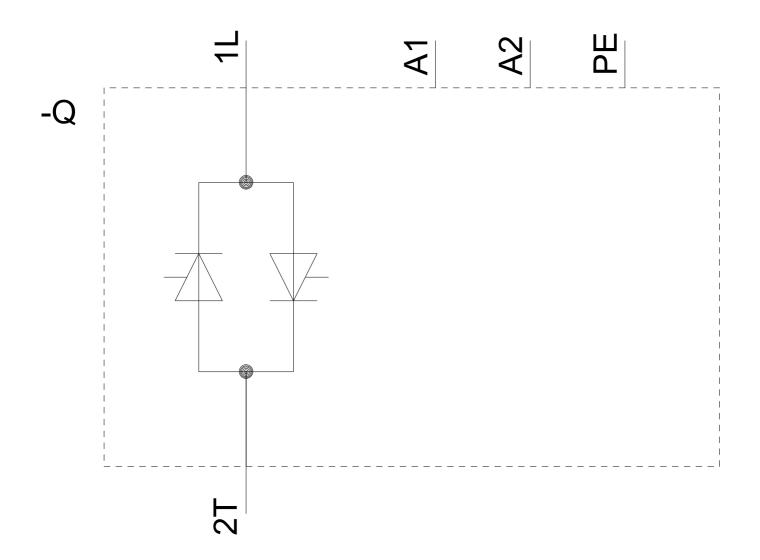
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1BA04

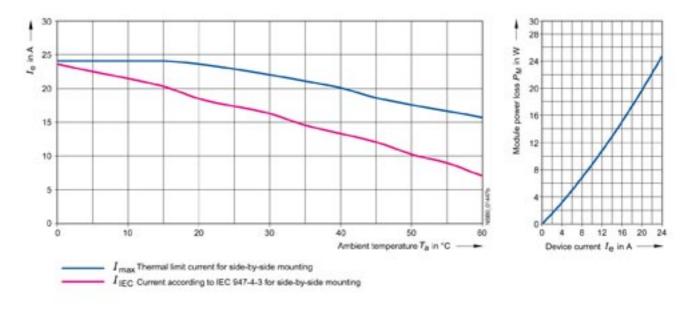
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1BA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1BA04&lang=en









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