SIEMENS

Data sheet 3RF2320-2AA02



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

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
_3 of the accessories that can be ordered	3RF2900-0EA18
product designation	
_3 of the accessories that can be ordered	converter
General 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 	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	DC
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 EN 61346-2	Q
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	1 000 V/µs

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type of electrical connection	width	22.5 mm
type of electrical connection	depth	120 mm
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• for AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable • for main contacts • for auxiliary and control contacts 7 mm Safety related data	•	
AWG number as coded connectable conductor cross section for main contacts stripped length of the cable • for main contacts • for auxiliary and control contacts Safety related data		
main contacts stripped length of the cable • for main contacts • for auxiliary and control contacts 7 mm 7 mm Safety related data	f 414/0 11 f	
stripped length of the cable • for main contacts • for auxiliary and control contacts 7 mm 7 mm Safety related data	· .	11 10
• for main contacts • for auxiliary and control contacts 7 mm 7 mm Safety related data	AWG number as coded connectable conductor cross section for	14 18
• for auxiliary and control contacts 7 mm Safety related data	AWG number as coded connectable conductor cross section for main contacts	14 18
Safety related data	AWG number as coded connectable conductor cross section for main contacts stripped length of the cable	
•	AWG number as coded connectable conductor cross section for main contacts stripped length of the cable • for main contacts	7 mm
protection class IP on the front according to IEC 60529 IP20	AWG number as coded connectable conductor cross section for main contacts stripped length of the cable of or main contacts of or auxiliary and control contacts	7 mm
	AWG number as coded connectable conductor cross section for main contacts stripped length of the cable of or main contacts of or auxiliary and control contacts	7 mm
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	AWG number as coded connectable conductor cross section for main contacts stripped length of the cable • for main contacts • for auxiliary and control contacts Safety related data protection class IP on the front according to IEC 60529	7 mm 7 mm

Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	1 000 111
during operation	-25 +60 °C
during operation during storage	-55 +80 °C
Electromagnetic compatibility	-55 +60 C
conducted interference	
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
 due to builst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2
due to conductor-conductor surge according to IEC	1 kV behavior criterion 2
61000-4-5	1 KV Deliavior Citienori 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	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	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 	3NE1814-0
 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 	3NC2263
manufacturer's article number of the gG fuse	
at NH design usable	3NA6807
• at cylindrical design 10 x 38 mm usable	3NW6007-1
• at cylindrical design 14 x 51 mm usable	3NW6107-1
• at cylindrical design 22 x 58 mm usable	3NW6207-1: These fuses have a smaller rated current than the semiconductor relays
manufacturer's article number	
of DIAZED fuse usable	<u>5SB2711</u>
of NEOZED fuse usable	5SE2320
Certificates/ approvals	

Certificates/ approvals

General Product Approval

EMC

Declaration of Con-



Confirmation









Declaration of Conformity

Test Certificates

other

Railway



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Confirmation



Vibration and Shock

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

om/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,...)

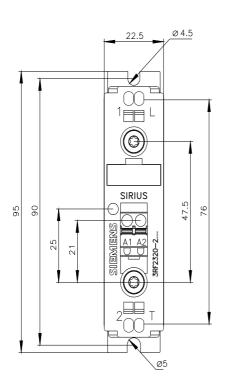
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-2AA02

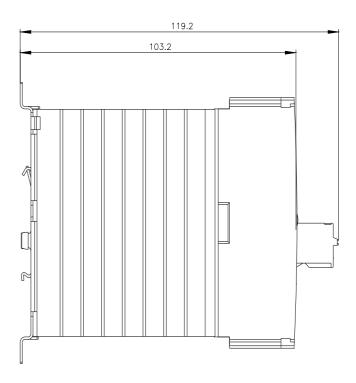
Cax online generator

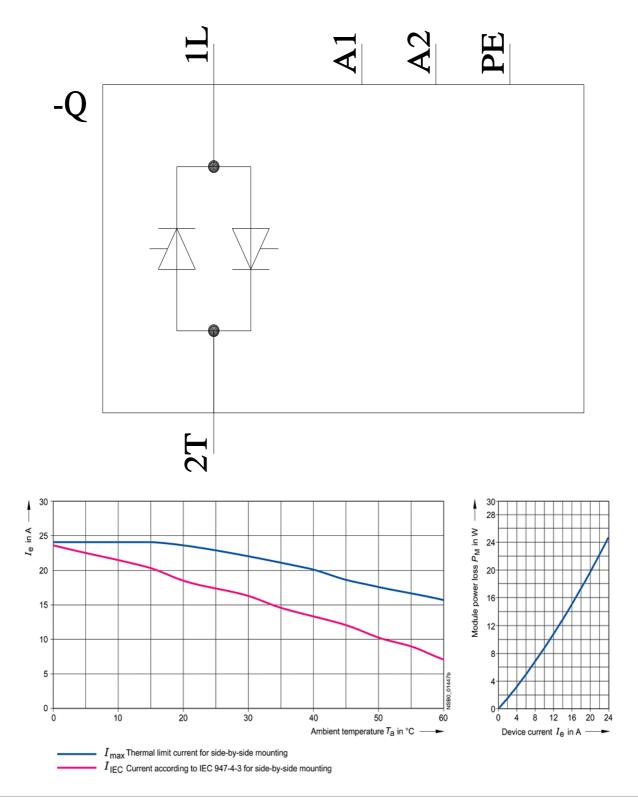
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-2AA02

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

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-2AA02&lang=en







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