SIEMENS

Data sheet 3RF2320-2AA06



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40 $^{\circ}\text{C}$ 48-600 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	48 600 V
at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
● at 50 Hz	40 660 V
● at 60 Hz	40 660 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

maximum permissible blocking voltage at the thyristor for main contacts maximum permissible control control the thyristor derivating temperature 40° C control circuit Centrol 40° C 800 A 1800 A 180		
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stripped length of the cable		18
• TOT MAIN CONTACTS / mm		
• for auxiliary and control contacts 7 mm	·	nm
Safety related data	data	
protection class IP on the front according to IEC 60529 IP20		20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	ction on the front according to IEC 60529	ger-safe, for vertical contact from the front

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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	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 	<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 	3NC2250
manufacturer's article number of the gG fuse	
at NH design usable	<u>3NA6807-6</u>
Certificates/ approvals	

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



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

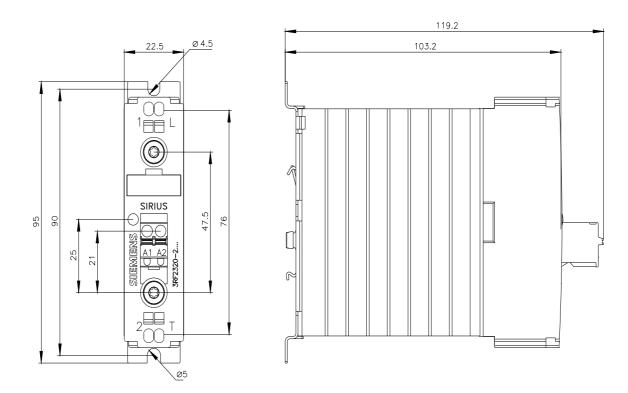
Industry Mall (Online ordering system)

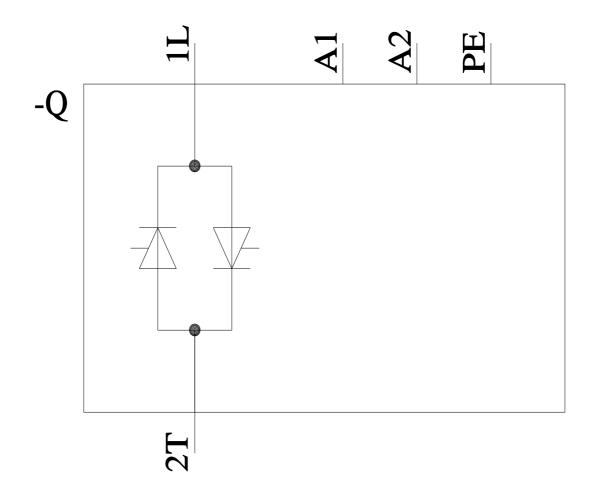
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-2AA06

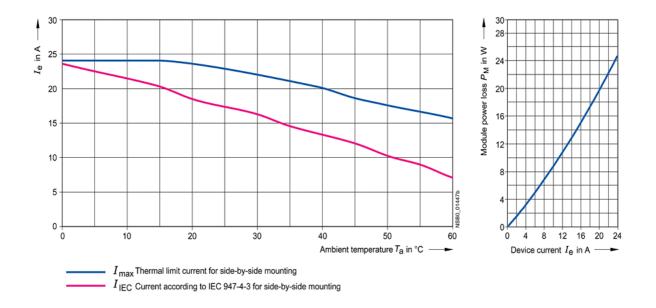
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-2AA06

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-2AA06







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