SIEMENS

Data sheet 3RF2320-1BA06



Solid-state contactor 1-phase 3RF2 AC 15 / 12 A / 40 $^{\circ}\text{C}$ 48-600 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
power loss [W] for rated value of the current at AC in hot operating state	20 W
per pole	20 W
power loss [W] for rated value of the current 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 acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	2g
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	28.05.2009
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	

40 660 V
40 660 V
20 A
13.2 A
12 A
500 mA
1 000 V/μs
1 600 V
10 mA
40 °C
600 A
1 800 A ² ·s
DC
30 V
15 24 V
15 V
5 V
13 mA
15 mA
1 ms
1 ms; additionally max. one half-wave
This, additionally max. one hall-wave
0
0
0
0
Yes
95 mm
22.5 mm
120 mm
screw-type terminals
screw-type terminals
2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
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	- 1 000 111	
Imbient temperature		
during operation	-25 +60 °C	
during operation during storage	-55 +80 °C	
ectromagnetic compatibility	30 400 0	
conducted interference		
due to burst acc. to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2	
 due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV behavior criterion 2	
due to conductor-earth strige acc. to IEC 01000-4-3 due to conductor-conductor surge acc. to IEC	1 kV behavior criterion 2	
61000-4-5	1 KV Deliavior 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	
ield-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	
ield-bound HF interference emission acc. to CISPR11	Class B for the domestic, business and commercial environments	
ort-circuit protection, design of the fuse link		
nanufacturer'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 	<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>3NC2250</u>	
nanufacturer's article number of the gG fuse		
at NH design usable	<u>3NA6807-6</u>	
ertificates/ approvals		
General Product Approval	EMC Declaration of Conformity Test Certificate Type Test Certificate	











Type Test Certificates/Test Report

Test Certificates	other	Railway



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=3RF2320-1BA06

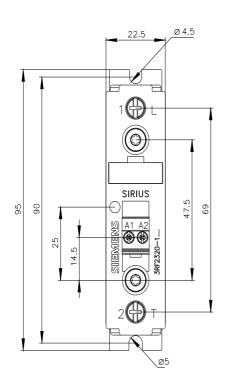
Cax online generator

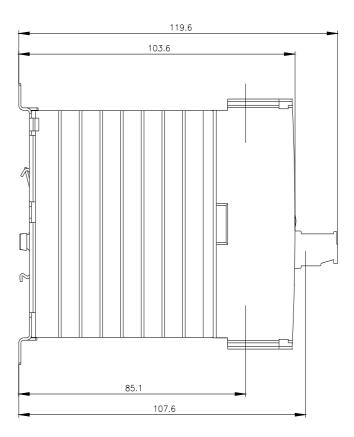
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1BA06

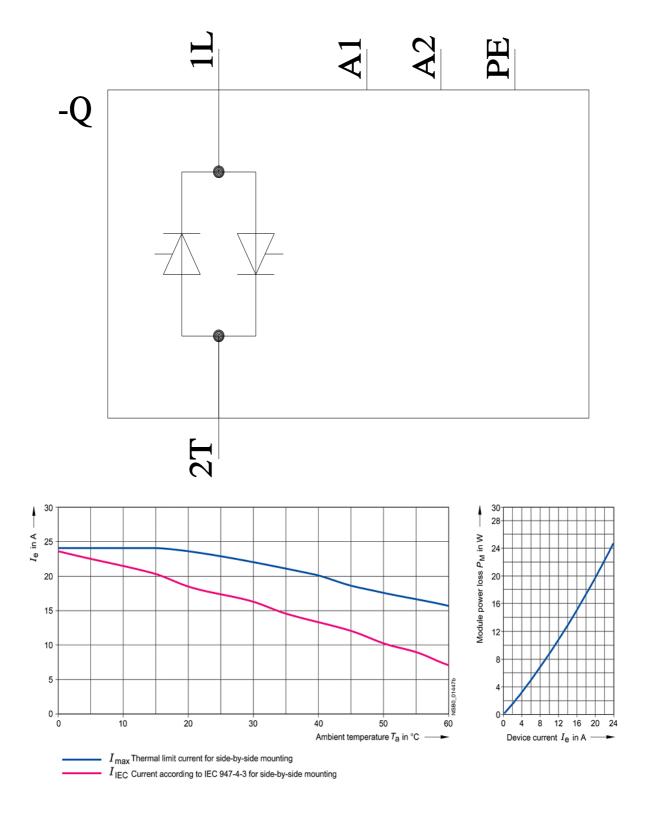
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1BA06&lang=en







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