SIEMENS

Data sheet

3RF2320-1DA44



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40 $^\circ\rm C$ 48-460 V / 4-30 V DC short circuit-proof with B miniature circuit breaker

product brand name SIRUS product designation solid-state contactor design of the product single-phase product type designation 3RF23 manufacturer's article number 3RF200-3PA88					
design of the product single-phase product type designation 3RF23 manufacture's article number 3RF2300-0EAB • _ 1 of the accessories that can be ordered 3RF2200-0EAB • _ 3 of the accessories that can be ordered 3RF2200-0EAB • _ 4 of the accessories that can be ordered 3RF2200-0EAB • _ 5 of the accessories that can be ordered 3RF2200-0EAB • _ 3 of the accessories that can be ordered converter • _ 3 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered load monitoring, basis demeral technical data product function product function short-circuit resistant with B-automatic device power loss (W) for rated value of the current e • at AC in hot operating state 20 W insulation votage rated value 600 V degree of pollution 3 type of voltage AC • of the operating voltage AC protection class IP on the front according to IEC 60068-2.27 IF920 shock resistance according to IEC 60068-2.27 <td< th=""><th>product brand name</th><th>SIRIUS</th></td<>	product brand name	SIRIUS			
product type designation 3RF23 manufacturer's article number 3RF2300-3PA88 • 1 of the accessories that can be ordered 3RF2900-3PA88 • 3 of the accessories that can be ordered 3RF2920-0EA18 • 4 of the accessories that can be ordered 3RF2920-0EA18 • 5 of the accessories that can be ordered 3RF2920-0EA18 product designation terminal cover • 1 of the accessories that can be ordered terminal cover • 3 of the accessories that can be ordered load monitoring • 5 of the accessories that can be ordered load monitoring • 5 of the accessories that can be ordered load monitoring • 5 of the accessories that can be ordered load monitoring • 6 of the accessories that can be ordered load monitoring • 6 of the accessories that can be ordered load monitoring • 6 of the accessories that can be ordered load monitoring • 6 of the accessories that can be ordered load monitoring • 6 of the corteal value of the current 20 W • at AC in hot operating state 20 W • at AC in hot operating value 600 V degree of pollution	product designation	solid-state contactor			
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• _ 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 converter • _ 3 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered • _ 4 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered • _ 4 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered • _ 5 of the accessories that can be ordered load monitoring • _ 5 of the accessories that can be ordered • _ 4 of the accessories that can be ordered load monitoring _ 5 of the accessories that can be ordered • _ 4 of the accessories that can be ordered load monitoring _ 5 of the accessories that can be ordered • _ 4 of the accessories that can be ordered load monitoring _ 5 of the accessories that can be ordered • _ 5 of the accessories that can be ordered load monitoring _ 5 of the accessories _ 6 of the accessories • of the operating visite 20 W 0 St 0 St _ 7 of the operating visite _ 7 of the operating visite • of the operating visitage AC _ 0 C _	 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>			
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product designation terminal cover •_1 of the accessories that can be ordered converter •_3 of the accessories that can be ordered load monitoring •_5 of the accessories that can be ordered load monitoring, basis Convert technical data	 _4 of the accessories that can be ordered 	<u>3RF2920-0GA16</u>			
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Main circuit 1 number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8			
number of poles for main current circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	Weight	0.19 kg			
number of NO contacts for main contacts 1 number of NC contacts for main contacts 0	Main circuit				
number of NC contacts for main contacts 0	number of poles for main current circuit	1			
	number of NO contacts for main contacts	1			
type of voltage of the operating voltage AC	number of NC contacts for main contacts	0			
	type of voltage of the operating voltage	AC			

operating voltage			
• at AC			
— at 50 Hz rated value	48 460 V		
— at 60 Hz rated value	48 460 V		
operating frequency rated value	50 60 Hz		
operating range relative to the operating voltage at AC			
• at 50 Hz	40 506 V		
• at 60 Hz	40 506 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		
operational current of the MCB at AC rated value	20 A		
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs		
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	1 150 A		
I2t value maximum	6 600 A ² ·s		
Control circuit/ Control			
type of voltage of the control supply voltage	DC		
control supply voltage 1 at DC rated value maximum permissible	30 V		
control supply voltage 1 at DC	4 24 V		
control supply voltage			
 at DC initial value for signal <1> detection 	4 V		
 at DC full-scale value for signal<0> recognition 	1 V		
control current at minimum control supply voltage			
● at DC	18 mA		
control current at DC rated value	20 mA		
ON-delay time	1 ms; additionally max. one half-wave		
OFF-delay time	1 ms; additionally max. one half-wave		
Auxiliary circuit			
type of switching contact	normally open contact (NO)		
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 side-by-side mounting	Yes		
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715		
design of the thread of the screw for securing the equipment	M4		
height	95 mm		
width	22.5 mm		
depth	120 mm		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
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		
for AWG cables for main contacts	2x (14 10)		
 connectable conductor cross-section for main contacts 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				
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
 — finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)			
— finely stranded without core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)			
• for 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			
	7 1111			
Electrical Safety protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front			
	4.000			
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				
conducted interference				
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2			
	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2			
• due to burst according to IEC 61000-4-4				
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 	2 kV behavior criterion 2			
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000- 	2 kV behavior criterion 2 1 kV behavior criterion 2			
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 	 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 			
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3 	2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 80 MHz 1 GHz 10 V/m, behavior criterion 1			
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			<u>relays</u>		
manufacturer's article r	number				
 of DIAZED fuse 	usable		<u>5SB2711</u>		
 of NEOZED fuse 	eusable		<u>5SE2320</u>		
Approvals Certificates					
General Product App	roval				EMV
CE EG-Konf.	UK CA	<u>Confirmatio</u>		EHC	RCM
Test Certificates		other		Railway	Environment
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	<u>Confirmatio</u>		<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations

Further information

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=3RF2320-1DA44

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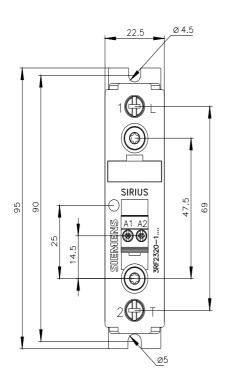
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1DA44

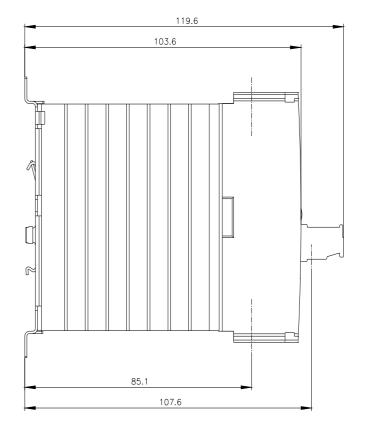
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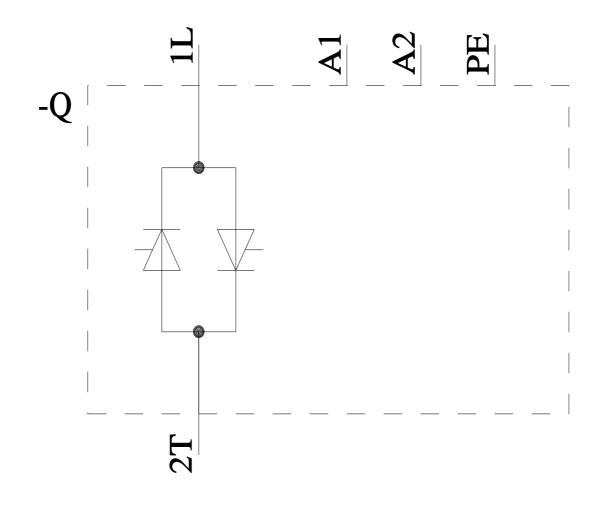
https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1DA44

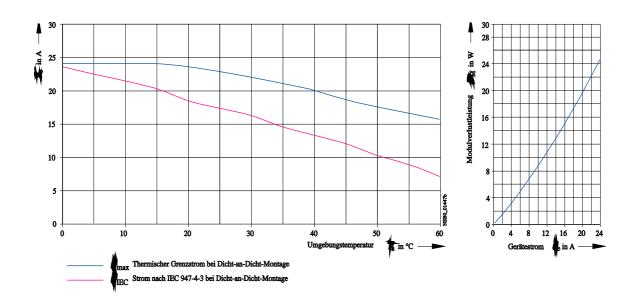
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2320-1DA44&lang=en









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