SIEMENS

Data sheet 3RF2120-2AA22



Semiconductor relay, 1-phase 3RF2 Width 22.5 mm, 20 A 24-230 V / 110-230 V AC Spring-type terminal

product brand name product designation design of the product product type designation SIRIUS solid-state relay single-phase 3RF21

General technical data	
product function	zero-point switching
power loss [V·A] maximum	28.6 VA
power loss [W] for rated value of the current	
 at AC in hot operating state 	28.6 W
 at AC in hot operating state per pole 	28.6 W
 without load current share typical 	3.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	AC
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 IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main aireuit	

reference code decorating to 120 01040 2	×
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
relative symmetrical tolerance of the operating frequency	10 %
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
 according to UL 508 rated value 	20 A
ampacity maximum	20 A
operational current minimum	100 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	500 V/µs
blocking voltage at the thyristor for main contacts maximum permissible	800 V
reverse current of the thyristor	10 mA
derating temperature	40 °C

	200 A
surge current resistance rated value	200 A
I2t value maximum Control circuit/ Control	200 A²·s
	AC
type of voltage of the control supply voltage control supply voltage 1 at AC	AC
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	110 230 V
• 1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage at AC	
• at 50 Hz full-scale value for signal<0> recognition	40 V
 at 60 Hz full-scale value for signal<0> recognition 	40 V
control supply voltage	
 at AC initial value for signal <1> detection 	90 V
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms; additionally max, one half-wave
OFF-delay time	40 ms; additionally max. one half-wave
Auxiliary circuit	0
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
	0
Installation/ mounting/ dimensions fastening method	screw fixing
side-by-side mounting	Yes
design of the thread of the screw for securing the equipment	M4
tightening torque of fixing screw maximum	1.5 N·m
tightening torque [lbf·in] of fixing screw maximum	13 lbf·in
height	85 mm
width	22.5 mm
depth	48 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
for main contacts — solid	2x (0.5 2.5 mm²)
— solid — finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
— finely stranded with core end processing — finely stranded without core end processing	2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (18 14)
connectable conductor cross-section for main contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	
- intory stratitude with core end processing	0.5 1.5 mm ²
finely stranded with core end processing finely stranded without core end processing	0.5 1.5 mm ² 0.5 2.5 mm ²
 finely stranded without core end processing type of connectable conductor cross-sections 	
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts 	0.5 2.5 mm²
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid 	0.5 2.5 mm ²
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing 	0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ²
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ²
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finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts	0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ²
finely stranded without core end processing type of connectable conductor cross-sections of rauxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque	0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 14 10
finely stranded without core end processing type of connectable conductor cross-sections of rauxiliary and control contacts	0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12)
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	manufacturer's article number	
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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

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)

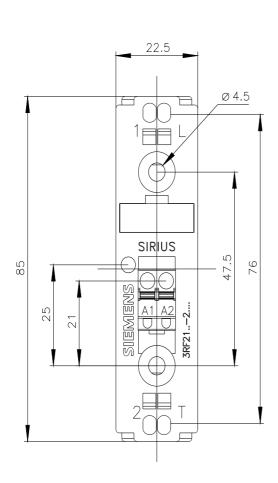
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2120-2AA22

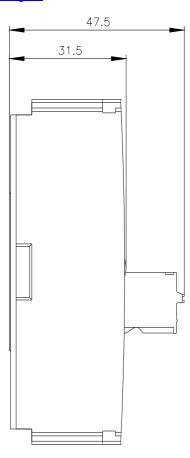
Cax online generator

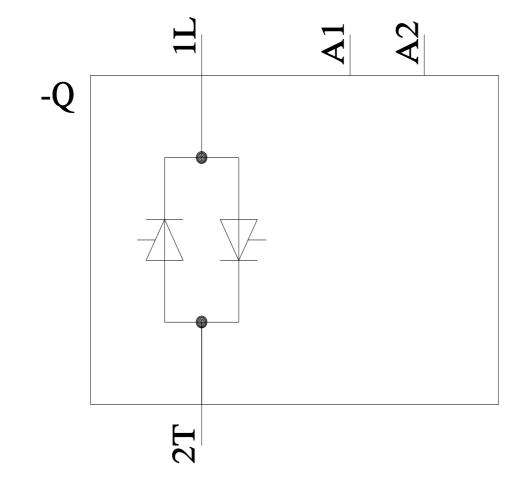
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

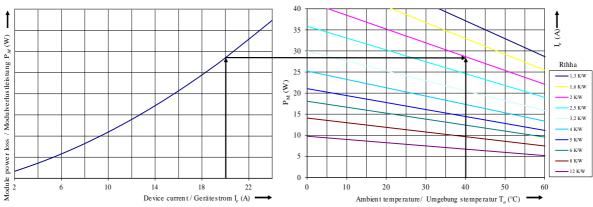
https://support.industry.siemens.com/cs/ww/en/ps/3RF2120-2AA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2120-2AA22&lang=en









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