SIEMENS

Data sheet 3RF2120-3AA22



Semiconductor relay, 1-phase 3RF2 Width 22.5 mm, 20 A 24-230 V / 110-230 V AC Ring cable connection

product brand name product designation design of the product product type designation manufacture's article number - 1 of the accessories that can be ordered 3RF290-05A38 - 4 of the accessories that can be ordered 3RF2920-06A33 product designation - 1 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 5 order accessories that can be ordered - 4 of the accessories that can be ordered - 5 order accessories that can be ordered - 5 order accessories that can be ordered - 6 order accessories that can be ordered - 6 order accessories that can be ordered - 7 order accessories that can be ordered - 8 order accessories that can be ordered - 8 order accessories that can be ordered - 9 order accessories th		
design of the product product type designation 3RF21 manufacture's article number • _ 1 of the accessories that can be ordered 3RF2900-3PA88 • _ 4 of the accessories that can be ordered 3RF2900-0GA33 product designation • _ 1 of the accessories that can be ordered 4 of the accessories that can be ordered 5 odd monitoring coneral technical data product function power loss [V-A] maximum power loss [V-A] maximum power loss [V-A] maximum 28.6 VA at AC in hot operating state at AC in hot operating state per pole 5 without load current have typical insulation voltage rated value type of voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-6 2g reference code according to EEC 60068-2-6 2g reference code according to EEC 61068-2-0 Substance Prohibitance (Date) number of No contacts for main contacts number of No contacts for main contacts operating voltage at AC • at 50 Hz rated value • at 60 Hz	product brand name	SIRIUS
product type designation manufacturer's article number • 1 of the accessories that can be ordered • 2 of the accessories that can be ordered • 3RF2920-0GA33 product designation • 1 of the accessories that can be ordered • 4 of the accessories that can be ordered • 1 of the accessories that can be ordered • 4 of the accessories that can be ordered • 1 of the accessories that can be ordered • 2 of the accessories that can be ordered power loss [V-A] maximum 28.6 VA power loss [V/A] maximum 28.6 VA power loss [V/A] maximum 28.6 W • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical insulation voltage rated value 500 V type of voltage of the control supply voltage AC surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 15g/11 ms vibration resistance according to IEC 60068-2-2 reference code according to IEC 61346-2 Q reference code according to IEC 61346-2 Q reference code according to IEC 61346-2 Q Substance Prohibitance (Date) 05/28/2009 Main circuit number of NC contacts for main contacts 1 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz	product designation	solid-state relay
manufacturer's article number • _1 of the accessories that can be ordered 3RF2920-ORA33 product designation • _1 of the accessories that can be ordered 2 of the accessories that can be ordered 4 of the accessories that can be ordered 5 of the accessories that can be ordered 6 of the accessories that can be ordered 6 of the accessories that can be ordered 7 of the accessories that can be ordered 8 of the accessories that can be ordered 8 of the accessories that can be ordered 9 of	design of the product	single-phase
• _1 of the accessories that can be ordered 3RF2900-SPA88 • _4 of the accessories that can be ordered 3RF2920-0GA33 product designation • _1 of the accessories that can be ordered • _4 of the accessories that can be ordered • _4 of the accessories that can be ordered • _4 of the accessories that can be ordered	product type designation	3RF21
product designation - 1 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered	manufacturer's article number	
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Product function Zero-point switching	_1 of the accessories that can be ordered	terminal cover
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 • without load current share typical 3.5 W insulation voltage rated value 600 V type of 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 60068-2-27 2 15g / 11 ms vibration resistance according to IEC 60068-2-2 Q reference code according to IEC 81346-2 Q substance Prohibitance (Date) 05/28/2009 Main circuit number of NO contacts for main contacts 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 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 • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value 20 A	_4 of the accessories that can be ordered	load monitoring
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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 50 60 Hz relative symmetrical tolerance of the operating frequency 10 % operating range relative to the operating voltage at AC • at 50 Hz 2 20 253 V • at 60 Hz operational current • at AC-51 rated value 20 A	shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2 Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value poperating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz coperating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz 20 253 V operational current • at AC-51 rated value 20 A	vibration resistance according to IEC 60068-2-6	2g
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 at 50 Hz rated value at 60 Hz rated value 24 230 V operating frequency rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC at 50 Hz at 50 Hz at 60 Hz operational current at AC-51 rated value 20 253 V 	number of NC contacts for main contacts	0
 at 60 Hz rated value operating frequency rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC at 50 Hz at 60 Hz operational current at AC-51 rated value 24 230 V 250 253 V 20 253 V 20 253 V 	operating voltage at AC	
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operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz 20 253 V operational current • at AC-51 rated value 20 A	operating frequency rated value	50 60 Hz
 at 50 Hz at 60 Hz 20 253 V operational current at AC-51 rated value 20 A 	relative symmetrical tolerance of the operating frequency	10 %
● at 60 Hz 20 253 V operational current ● at AC-51 rated value 20 A	operating range relative to the operating voltage at AC	
operational current ● at AC-51 rated value 20 A	● at 50 Hz	20 253 V
• at AC-51 rated value 20 A	● at 60 Hz	20 253 V
	operational current	
• according to UL 508 rated value 20 A	• at AC-51 rated value	20 A
	 according to UL 508 rated value 	20 A

	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	800 V		
maximum permissible	40. 4		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value 12t value maximum	200 A 200 A ² ·s		
Control circuit/ Control	200 A~S		
type of voltage of the control supply voltage	AC		
control supply voltage 1 at AC			
• at 50 Hz	110 230 V		
• at 60 Hz	110 230 V		
control supply voltage frequency	110 200 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			
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	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	Ring cable lug connection		
for auxiliary and control circuit	ring terminal lug connection		
type of connectable conductor cross-sections			
 for main contacts for JIS cable lug 	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5		
for DIN cable lug for main contacts	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25		
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 mm²), 2x (0.5 1.0 mm²)		
— finely stranded without core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
• for AWG cables for auxiliary and control contacts	1x (AWG 20 12)		
tightening torque	2 25 N.m.		
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals 	2 2.5 N·m 0.5 0.6 N·m		
tightening torque [lbf·in]			
for main contacts with screw-type terminals	7 10.3 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	M5			
 of the auxiliary and control contacts 	M3			
stripped length of the cable				
for main contacts	7 mm			
 for auxiliary and control contacts 	7 mm			
Safety related data				
protection class IP on the front according to IEC 60529	IP00; IP20 with cover			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact	from the front with cover		
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	00 × 00 °C			
conducted interference				
	2 kV / E kHz behavior criterion	2		
due to burst according to IEC 61000-4-4 due to sandy the sandy according to IEC 61000-4-5 due to sandy the sandy according to IEC 61000-4-5 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 	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 	3NC1430			
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2225			
manufacturer's article number of the gG fuse				
at NH design usable	3NA6803; These fuses have a	smaller rated current than	the semiconductor	
•	relays			
• at cylindrical design 10 x 38 mm usable	3NW6001-1; These fuses have a smaller rated current than the semiconductor relays			
• at cylindrical design 14 x 51 mm usable	3NW6101-1: These fuses have a smaller rated current than the semiconductor relays			
manufacturer's article number				
• of NEOZED fuse usable	5SE2313-2A: These fuses have a smaller rated current than the semiconductor relays			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	
			•	



Confirmation









Declaration of Conformity

Test Certificates other





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=3RF2120-3AA22

Cax online generator

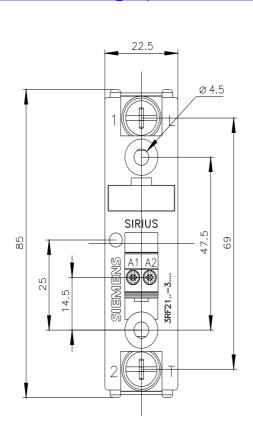
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2120-3AA22}$

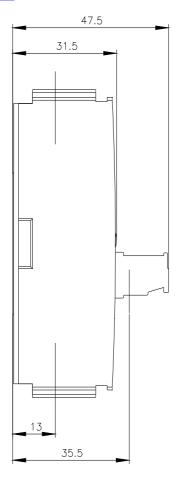
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

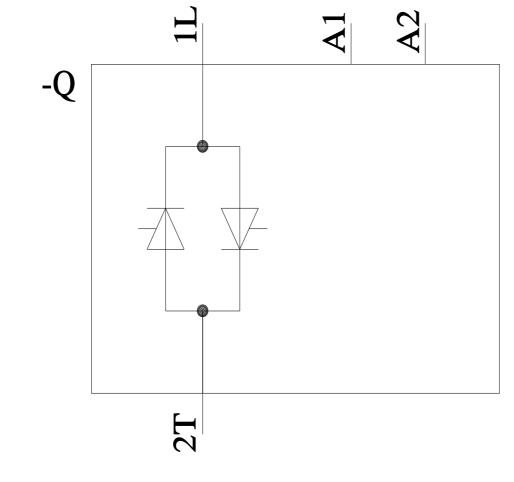
https://support.industry.siemens.com/cs/ww/en/ps/3RF2120-3AA22

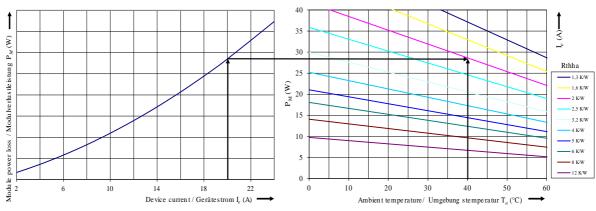
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2120-3AA22&lang=en









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