SIEMENS

Data sheet

3RF2120-1AA45



Semiconductor relay, 1-phase 3RF2 Width 22.5 mm, 20 A 48-600 V / 4-30 V DC screw terminal Blocking voltage 1200 V

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>
 _2 of the accessories that can be ordered 	<u>3RF2920-0HA16</u>
 _3 of the accessories that can be ordered 	<u>3RF2900-0EA18</u>
 _4 of the accessories that can be ordered 	<u>3RF2920-0GA16</u>
 _5 of the accessories that can be ordered 	<u>3RF2920-0FA08</u>
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	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 	0.5 W
insulation voltage rated value	600 V
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
relative symmetrical tolerance of the operating frequency	10 %

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
 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	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	200 A
l2t value maximum	200 A ² ·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
at DC rated value	30 V
• at DC	4 30 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	13 mA
control current at DC rated value	15 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
· · · · · · · · · · · · · · · · · · ·	0
nonoel of GO contacts for auxiliary contacts	
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions fastening method	screw fixing
Installation/ mounting/ dimensions fastening method • side-by-side mounting	screw fixing Yes
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	screw fixing Yes M4
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum	screw fixing Yes M4 1.5 N·m
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum	screw fixing Yes M4 1.5 N·m 13 lbf·in
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
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Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw fixing Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
Installation/ mounting/ dimensions fastening method side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts 	screw fixing Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [Ibf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid	screw fixing Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts - solid - finely stranded with core end processing	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
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for auxiliary and control contacts for unaxiliary and control contacts fact retained data intervented inte		7 mm				
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Installation altitude at height above sea level maximum 1 000 m amblert temperature - 25 + 60 ° C - during operation - 25 + 80 ° C - during storage - 55 + 80 ° C - ettomagnetic compatibility - 25 + 80 ° C - due to bust according to IEC 61000-4.4 2 kV / 5 kHz behavior criterion 2 - due to bust according to IEC 61000-4.5 2 kV behavior criterion 2 - due to high-frequency radiation according to IEC 61000-4.5 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 1eled-based Interference according to IEC 61000-4.3 80 MHz 1 GHz 10 V/m, behavior criterion 1 1eled-based Interference according to IEC 61000-4.3 80 MHz 1 GHz 10 V/m, behavior criterion 1 1eled-based Interference according to IEC 61000-4.3 80 MHz 1 GHz 10 V/m, behavior criterion 1 1eled-based Interference according to IEC 61000-4.3 80 MHz 1 GHz 10 V/m, behavior criterion 1 1eled-based Interference amission according to CISPR11 Class A for industrial environment CISPR14 Class I for the domestic, business and commercial environments ord-cricut protection, design of the fuse link 3NE1813-0. These fuses have a smaller rated current than the semiconductor relax • of back-up R fuse link for semiconductor protection at cylindrical design 12 x 51 mm usable	· •					
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	<u>Confirmation</u>	SAN UR	EAC	RCM	CE EG-Konf.
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UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	UDE VDE	Vibration and Shock

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=3RF2120-1AA45

Cax online generator

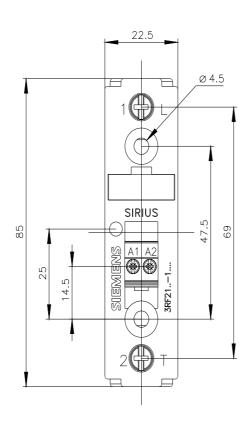
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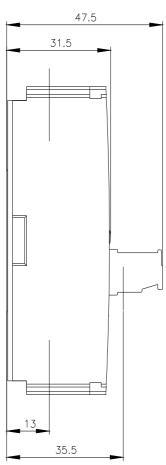
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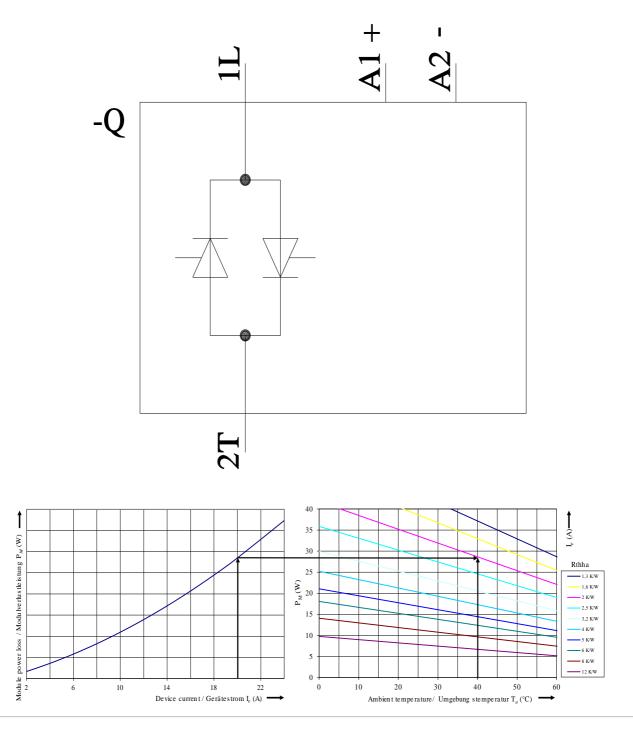
https://support.industry.siemens.com/cs/ww/en/ps/3RF2120-1AA45

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2120-1AA45&lang=en







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