SIEMENS

Data sheet

3RF2150-1AA45



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 50 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 	3RF2900-3PA88			
 _2 of the accessories that can be ordered 	3RF2950-0HA16			
 3 of the accessories that can be ordered 	3RF2900-0EA18			
 _4 of the accessories that can be ordered 	3RF2950-0GA16			
 _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	zero-point switching			
power loss [V·A] maximum	66 VA			
power loss [W] for rated value of the current				
 at AC in hot operating state 	66 W			
 at AC in hot operating state per pole 	66 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 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	10 %			
frequency				
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 	50 A		
 according to UL 508 rated value 	50 A		
ampacity maximum	50 A		
operational current minimum	500 mA		
rate of voltage rise at the thyristor for main contacts	1 000 V/µs		
maximum permissible	1000 1/µ3		
blocking voltage at the thyristor for main contacts	1 200 V		
maximum permissible			
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	600 A		
l2t value maximum	1 800 A²·s		
Control circuit/ Control			
	DO.		
type of voltage of the control supply voltage	DC		
control supply voltage 1	22.14		
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		
number of CO contacts for auxiliary contacts	0		
Installation/ mounting/ dimensions	porow fiving		
fastening method	screw fixing		
fastening method side-by-side mounting 	Yes		
fastening method • side-by-side mounting design of the thread of the screw for securing the	°		
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	Yes		
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum	Yes M4 1.5 N·m		
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	Yes M4		
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum	Yes M4 1.5 N·m 13 lbf·in		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals		
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	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 mm ²), 2x (2.5 6 mm ²)		
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	Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$		
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 • at AWG cables for main contacts	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 mm ²), 2x (2.5 6 mm ²)		
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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 • at AWG cables for main contacts connectable conductor cross-section for main contacts = solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts = solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing	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 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)		
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 • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing + finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing	Yes M4 1.5 N·m 13 lbfin 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)		
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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 • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross	Yes M4 1.5 N·m 13 lbfin 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)		
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 • at AWG cables for main contacts connectable conductor cross-section for main contacts — solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts	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 mm ²), 2x (2.5 6 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (14 10) 1.5 6 mm ² 1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12)		
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 • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross	Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm ² $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$		

General Product Approval	EMC Conformity				
ertificates/ approvals	Declaration of				
of NEOZED fuse usable	<u>5SE2320;</u> These fuses have a smaller rated current than the semiconductor relays				
nanufacturer's article number					
• at cylindrical design 22 x 58 mm usable	<u>3NW6205-1</u> ; These fuses have a smaller rated current than the semiconductor relays				
• at NH design usable	<u>3NA6807;</u> These fuses have a smaller rated current than the semiconductor relays				
nanufacturer's article number of the gG fuse	2NA6807: These fuses have a smaller rate down of these the				
at cylindrical design 22 x 58 mm usable					
at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection	<u>3NC2250</u>				
 of back-up R fuse link for semiconductor protection 	<u>3NC1450</u>				
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE8017-1</u>				
at cylindrical design usable	semiconductor relays				
design usableof full range R fuse link for semiconductor protection	semiconductor relays 5SE1335; These fuses have a smaller rated current than the				
of gS fuse for semiconductor protection at NH	<u>3NE1802-0;</u> These fuses have a smaller rated current than the				
manufacturer's article number					
nort-circuit protection, design of the fuse link					
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments				
conducted HF interference emissions according to CISPR11	Class A for industrial environment				
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1				
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
61000-4-5					
61000-4-5• due to conductor-conductor surge according to IEC	1 kV behavior criterion 2				
 due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 	2 kV behavior criterion 2				
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2				
ectromagnetic compatibility					
during storage	-55 +80 °C				
during operation	-25 +60 °C				
ambient temperature					
nstallation altitude at height above sea level maximum	1 000 m				
mbient conditions					
couch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
protection class IP on the front according to IEC 60529	IP20				
afety related data					
 for auxiliary and control contacts 	7 mm				
for main contacts	7 mm				
stripped length of the cable					
 of the auxiliary and control contacts 	M4 M3				
 design of the thread of the connection screw for main contacts 	M4				
terminals					
 for auxiliary and control contacts with screw-type 	4.5 5.3 lbf·in				
 for main contacts with screw-type terminals 	7 10.3 lbf-in				
ightening torque [lbf·in]					

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Declaration of Conformity	Test Certificates		other	Railway
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	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=3RF2150-1AA45

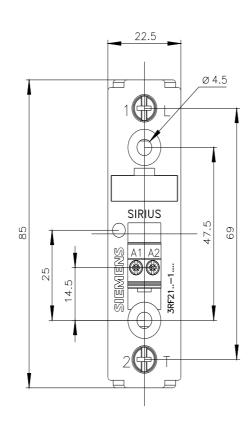
Cax online generator

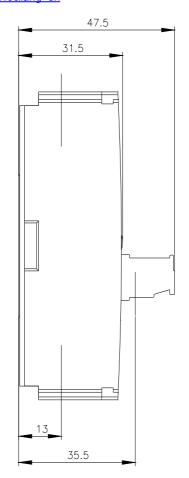
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2150-1AA45

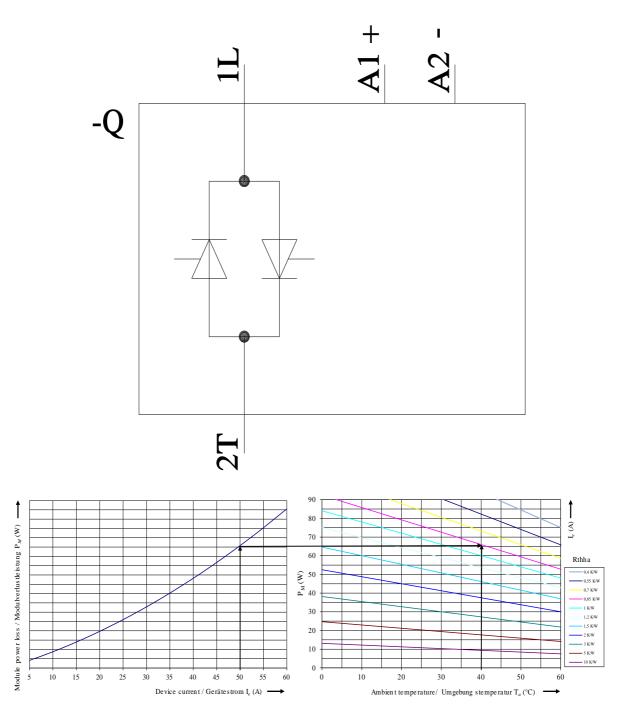
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2150-1AA45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2150-1AA45&lang=en







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