# SIEMENS

#### Data sheet

### 3RF2150-1BA06



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 50 A 48-600 V / 24 V DC screw terminal Instantaneous switching

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0HA16</u>
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0GA16</u>
<ul> <li>_5 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0FA08</u>
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator
<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
<ul> <li>_5 of the accessories that can be ordered</li> </ul>	load monitoring, basis
General technical data	
product function	instantaneous switching
power loss [V·A] maximum	66 VA
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	66 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	66 W
<ul> <li>without load current share typical</li> </ul>	0.4 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	40 000 1/
• at 50 Hz	40 660 V
• at 60 Hz	40 660 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	50 A
<ul> <li>according to UL 508 rated value</li> </ul>	50 A
ampacity maximum	50 A
operational current minimum	500 mA
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	1 600 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	600 A
l2t value maximum	1 800 A <sup>2.</sup> 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	15 24 V
control supply voltage	
at DC initial value for signal <1> detection	15 V
• at DC full-scale value for signal<0> recognition	5 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
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	This, additionally max. One han-wave
number of NC contacts for auxiliany contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	0 0
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method	0 0 screw fixing
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method         • side-by-side mounting	0 0 screw fixing Yes
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment	0 0 screw fixing Yes M4
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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	0 0 screw fixing Yes M4 1.5 N·m
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment	0 0 Screw fixing Yes M4 1.5 N·m 13 lbf·in
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
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number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
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number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         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         height         width         depth         Connections/Terminals         type of electrical connection         • for main current circuit         • for main contacts         - solid         - solid         - finely stranded with core end processing	0 0 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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method <ul> <li>side-by-side mounting</li> <li>design of the thread of the screw for securing the equipment</li> <li>tightening torque of fixing screw maximum</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts             <ul> <li>golid</li> <li>for Main contacts</li> <li>for MWG cables for main contacts</li> </ul> </li> </ul></li>	0 0 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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
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number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method <ul> <li>side-by-side mounting</li> </ul> design of the thread of the screw for securing the equipment           tightening torque 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         • for AWG cables for main contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary and control contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary and control contacts         • solid         • finely stranded with core end processing         • for auxiliary and control contacts         • solid         — finely stranded with core end processing	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$
number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         Installation/ mounting/ dimensions         fastening method <ul> <li>side-by-side mounting</li> <li>design of the thread of the screw for securing the equipment</li> <li>tightening torque of fixing screw maximum</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for MWG cables for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>solid or stranded</li> <li>for auxiliary and control contacts</li> <li>for auxiliary and control contacts</li> <li>for auxiliary and control contacts</li> <li>alid</li> </ul> </li>	0 0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm 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 <sup>2</sup> 1 10 mm <sup>2</sup> $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$

AWG number as coded connectable conductor cross section for main contacts	14 10
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	4.5 5.3 lbf·in
design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
stripped length of the cable	
for main contacts	7 mm
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm
afety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
mbient 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	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	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	
<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1803-0</u>
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8017-1</u>
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NC1450</u>
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NC2250</u>
manufacturer's article number of the gG fuse	
● at NH design usable	3NA6807-6; These fuses have a smaller rated current than the semiconductor
Certificates/ approvals	<u>relays</u>
	Declaration of Con-
	EMC
General Product Approval	formity
General Product Approval	tormity
	tormity



Type Test Certificates/Test Report Special Test Certificate **Confirmation** 



Vibration and Shock

#### 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=3RF2150-1BA06

Cax online generator

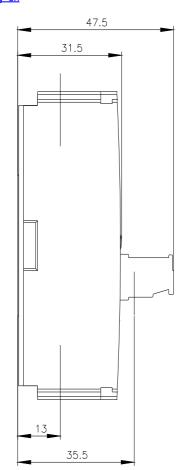
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2150-1BA06

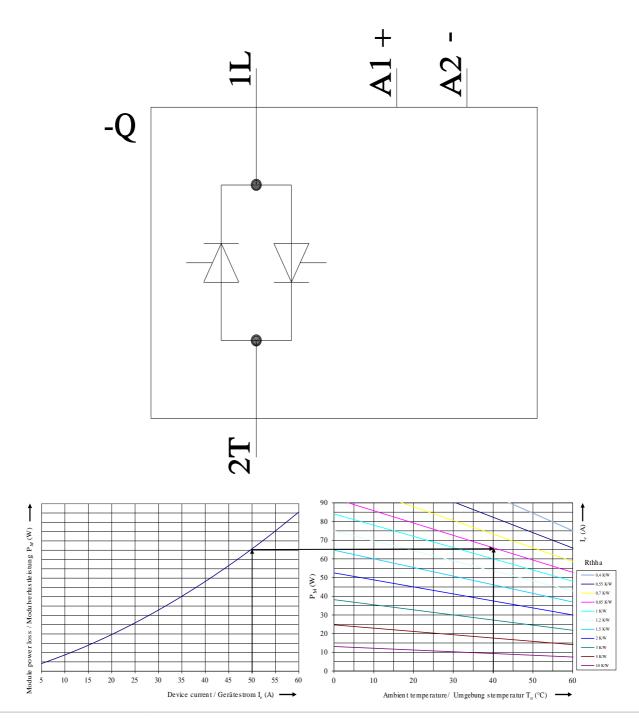
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2150-1BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2150-1BA06&lang=en

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