# SIEMENS

### Data sheet

## 3RF2170-1CA04



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 70 A 48-460 V / 24 V DC screw terminal low noise

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>_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>3RF2990-0GA16</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>_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	zero-point switching
power loss [V·A] maximum	94 VA
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	94 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	94 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 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	
<ul> <li>at 50 Hz rated value</li> </ul>	48 460 V
<ul> <li>at 60 Hz rated value</li> </ul>	48 460 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	40 506 V
• at 60 Hz	40 506 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	70 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts	1 000 V/µs
maximum permissible	
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	25 mA
derating temperature	40 °C
surge current resistance rated value	1 200 A
l2t value maximum	7 200 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	15 24 V
at DC initial value for signal <1> detection	15 V
0	5 V
<ul> <li>at DC full-scale value for signal&lt;0&gt; recognition</li> <li>control current at minimum control supply voltage</li> </ul>	С V
• at DC	13 mA
• at DC control current at DC rated value	13 mA 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	
fastening method	screw fixing
<ul> <li>side-by-side mounting</li> </ul>	Yes
design of the thread of the screw for securing the	M4
equipment	
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
width depth	22.5 mm 48 mm
depth	
depth Connections/ Terminals	
depth Connections/ Terminals type of electrical connection	48 mm
depth Connections/ Terminals type of electrical connection • for main current circuit	48 mm screw-type terminals
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	48 mm screw-type terminals
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	48 mm screw-type terminals
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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	48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )
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	48 mm 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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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     finely stranded with core end processing	48 mm 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> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )
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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	48 mm 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> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )
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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	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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (0.4 MVG 20 12) 14 10
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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	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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$

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</li> </ul>	4.5 5.3 lbf·in
terminals	
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	
<ul> <li>for main contacts</li> </ul>	7 mm
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm
Safety 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
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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</li> </ul>	2 kV behavior criterion 2
<ul><li>61000-4-5</li><li>due to conductor-conductor surge according to IEC</li></ul>	1 kV behavior criterion 2
<ul><li>61000-4-5</li><li>due to high-frequency radiation according to IEC</li></ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
61000-4-6	
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 B for the domestic, business and commercial environments
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	
Short-circuit protection, design of the fuse link manufacturer's article number	
	<u>3NE1020-2</u>
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection</li> </ul>	5SE1363; These fuses have a smaller rated current than the
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection</li> </ul>	5SE1363; These fuses have a smaller rated current than the
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays 3NE8020-1
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays         3NE8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at NH design usable</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays         3NE8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the semiconductor relays
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays         3NE8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays         3NE8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the semiconductor relays         3NW6212-1; These fuses have a smaller rated current than the semiconductor relays
<ul> <li>manufacturer's article number</li> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at cylindrical design 22 x 58 mm usable</li> </ul>	5SE1363; These fuses have a smaller rated current than the semiconductor relays         3NE8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the semiconductor relays         3NW6212-1; These fuses have a smaller rated current than the semiconductor relays         5SB4111; These fuses have a smaller rated current than the
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<ul> <li>manufacturer's article number         <ul> <li>of full range R fuse link for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at cylindrical design 22 x 58 mm usable</li> </ul> </li> <li>manufacturer's article number of the gG fuse</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>of DIAZED fuse usable</li> <li>of NEOZED fuse usable</li> <li>of NEOZED fuse usable</li> </ul>	SSE 1363; These fuses have a smaller rated current than the semiconductor relays         3NE 8020-1         3NC2280         3NA6812; These fuses have a smaller rated current than the semiconductor relays         3NW6212-1; These fuses have a smaller rated current than the semiconductor relays         5SB4111; These fuses have a smaller rated current than the semiconductor relays         5SE2335; These fuses have a smaller rated current than the semiconductor relays         SSE2335; These fuses have a smaller rated current than the semiconductor relays         EMC       Declaration of Conformity
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#### Conformity



<u>Type Test Certific-</u> <u>ates/Test Report</u> **Confirmation** 



#### **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=3RF2170-1CA04

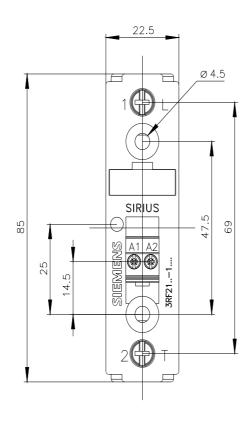
Cax online generator

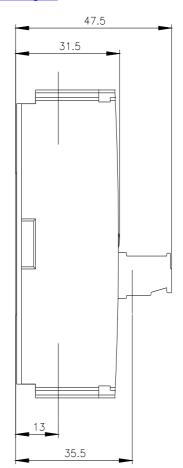
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2170-1CA04

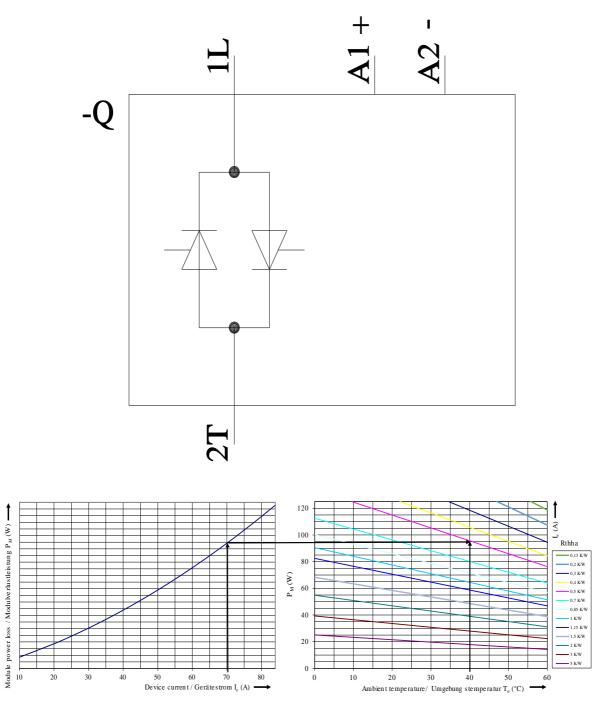
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2170-1CA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2170-1CA04&lang=en</u>







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