

SOLID STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C  
48-600 V / 4-30 V DC 3PH.-CONTROLLED RING  
TERMINAL LUG BLOCKING VOLTAGE 1200 V



Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		solid-state relay
Product function		zero-point switching
Number of poles for main current circuit		3
Protection class IP		IP00
Product designation _2 of the accessories that can be ordered		converter
Manufacturer article number _2 of the accessories that can be ordered		<a href="#">3RF2900-0EA18</a>
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 61346-2		Q

Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0

#### Main circuit:

Number of NO contacts for main contacts		3
Number of NC contacts for main contacts		0
Operating current		
• Rated value maximum	A	30
• at AC-51 Rated value	A	30
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	A	300
I <sup>2</sup> t value maximum	A <sup>2</sup> ·s	450
Operating voltage at AC		
• at 50 Hz Rated value	V	48 ... 600
• at 60 Hz Rated value	V	48 ... 600
Operating range relative to the operating voltage at AC		
• at 50 Hz	V	40 ... 660
• at 60 Hz	V	40 ... 660
Operating frequency Rated value	Hz	50 ... 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/μs	500
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Reverse current of the thyristor	mA	10
Control current at minimum control supply voltage		
• at DC	mA	2
Short-circuit protection, design of the fuse link		

#### Control circuit/ Control:

Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC	V	4 ... 30
Control supply voltage		
• at DC Full-scale value for signal<0> recognition	V	1
Control current		
• at DC Rated value	mA	15

#### Installation/ mounting/ dimensions:






Mounting type		screw fixing
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Mounting type	Side-by-side mounting		Yes
Design of the thread of the screw for securing the equipment			M4
Tightening torque of the screw for securing the equipment	N·m		1.5
Width	mm		45
Height	mm		95
Depth	mm		47

#### Connections/ Terminals:

Type of electrical connection for main current circuit			ring cable connection
Design of the thread of the connection screw for main contacts			M4
Tightening torque for main contacts with screw-type terminals	N·m		2 ... 2.5
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf·in		7 ... 10.3
Type of connectable conductor cross-section			
<ul style="list-style-type: none"> <li>• for AWG conductors <ul style="list-style-type: none"> <li>— for auxiliary and control contacts</li> </ul> </li> <li>• for auxiliary and control contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded <ul style="list-style-type: none"> <li>— with core end processing</li> <li>— without core end processing</li> </ul> </li> </ul> </li> </ul>			1x (AWG 20 ... 12)  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> )
Connectable conductor cross-section			
<ul style="list-style-type: none"> <li>• for auxiliary and control contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded <ul style="list-style-type: none"> <li>— with core end processing</li> <li>— without core end processing</li> </ul> </li> </ul> </li> </ul>	mm <sup>2</sup>		0.5 ... 2.5
	mm <sup>2</sup>		0.5 ... 2.5
	mm <sup>2</sup>		0.5 ... 2.5
AWG number as coded connectable conductor cross section			
<ul style="list-style-type: none"> <li>• for auxiliary and control contacts</li> </ul>			20 ... 12
Type of electrical connection for auxiliary and control current circuit			screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts			M3
Wire stripping length of the cable			
<ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary and control contacts</li> </ul>	mm		7
	mm		7
Tightening torque for auxiliary and control contacts with screw-type terminals	N·m		0.5 ... 0.6
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf·in		4.5 ... 5.3

## Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates		
 CSA	 UR		 C-TICK	 EG-Konf.	<a href="#">Typprüfbescheinigung/Werkszeugnis</a>

## other

[Umweltbestätigung](#)

## Further information

### Short-circuit protection, design of the fuse link

[https://www.automation.siemens.com/cd-static/material/info/3RF22\\_eng.pdf](https://www.automation.siemens.com/cd-static/material/info/3RF22_eng.pdf)

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

### Cax online generator

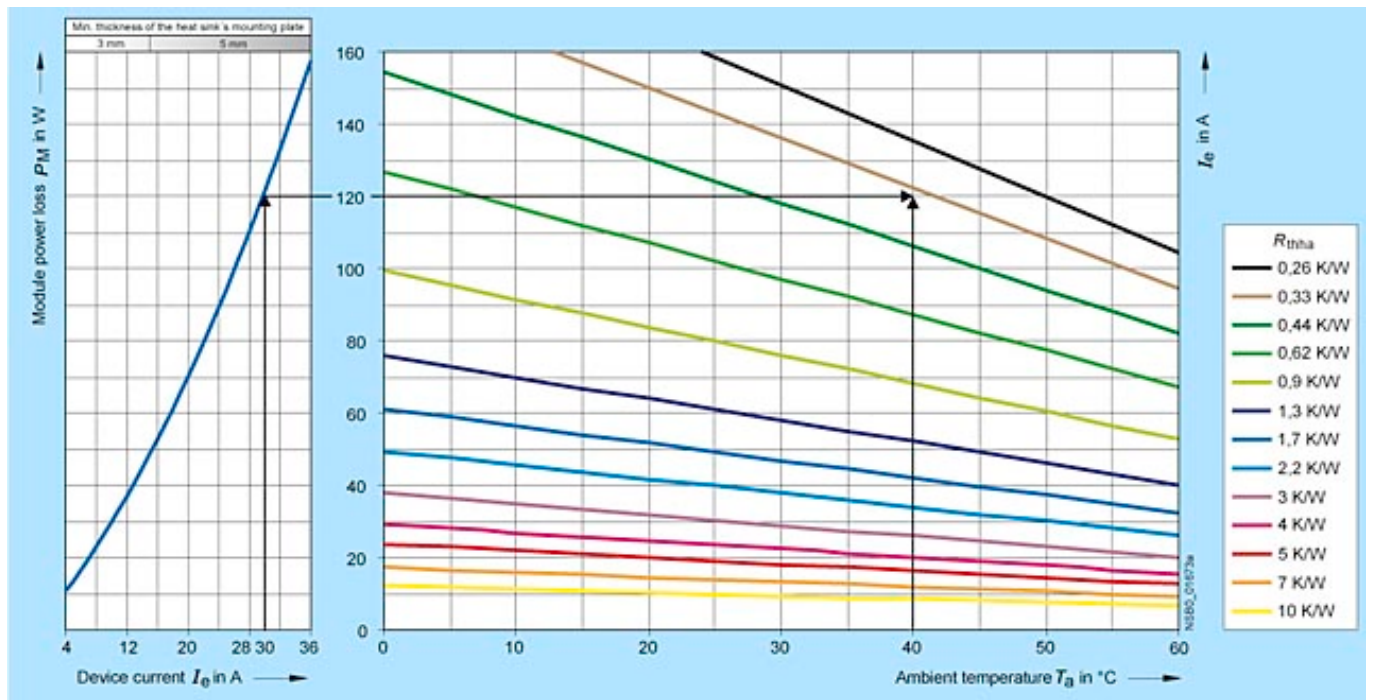
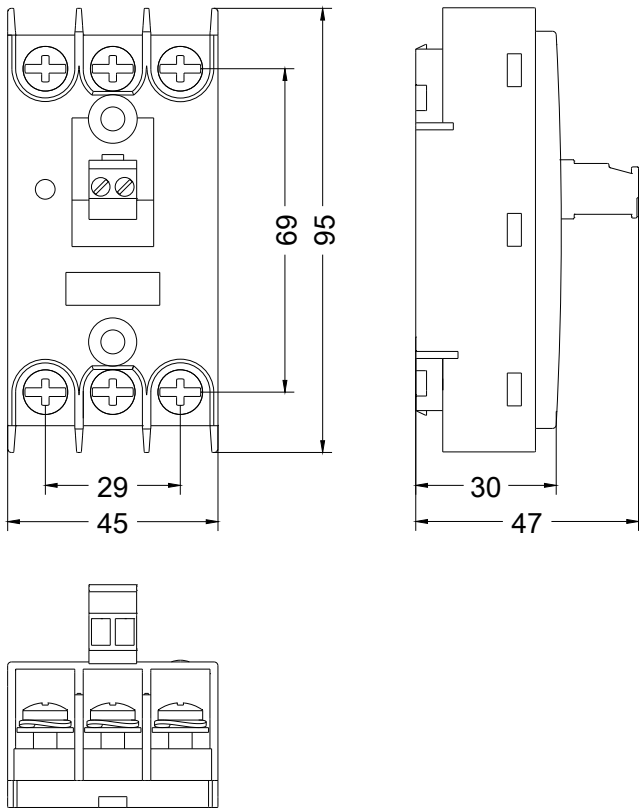
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22303AC45>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF22303AC45>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RF22303AC45&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF22303AC45&lang=en)



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