## **SIEMENS**

Data sheet 3RF2990-0HA36

Power regulator Current range 90 A / 40  $^{\circ}$ C 400-600 V / 110 V AC for semiconductor relay / contactor



General technical data		
Product brand name		SIRIUS
Product designation		power regulator
Product function		solid-state relay / solid-state contactor 3RF2
Number of poles for main current circuit		0
Protection class IP		IP20
Product designation _1 of the accessories that can be ordered		sealable end cover
Manufacturer's article number _1 of the accessories that can be ordered		3RF2900-0RA88
Product designation _2 of the accessories that can be ordered		input reactor / 1AC
Manufacturer's article number _2 of the accessories that can be ordered		4EU2452-3UA00-0AA0
Hole diameter of the current transformer	mm	17
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 <b>+</b> 60
during storage	°C	-55 <b>+</b> 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
Reference code acc. to DIN 40719 extended	Α
according to IEC 204-2 acc. to IEC 750	
Reference code acc. to DIN EN 61346-2	K

Main circuit		
Number of NO contacts for main contacts		0
Number of NC contacts for main contacts		0
Operating current		
• at AC-1 at 400 V rated value	Α	90
Derating temperature	°C	40
Operating voltage at AC		
• at 50 Hz rated value	V	400 600
• at 60 Hz rated value	V	400 600
Operating range relative to the operating voltage at AC		
● at 50 Hz	V	340 660
● at 60 Hz	V	340 660
Operating frequency rated value	Hz	50 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage rated value	V	600
Compensation of the supply voltage fluctuations	%	20
Teach range current	Α	18 90
Current measuring range	Α	0 99

Control circuit/ Control		
Type of voltage		AC
Control supply voltage		
• at AC		
— at 50 Hz		
— rated value	V	90 121
<ul><li>— Full-scale value for signal&lt;0&gt; recognition</li></ul>	V	15
— at 60 Hz		
— rated value	V	90 121
<ul><li>— Full-scale value for signal&lt;0&gt; recognition</li></ul>	V	15
Supply voltage frequency for auxiliary and control current circuit rated value	Hz	50 60
Symmetrical line frequency tolerance	Hz	5
Relative symmetrical tolerance of the supply voltage frequency	%	10
Control current		

• at AC rated value	mA	20
Operating voltage at the analog input	V	-1 +11
Source resistance at the analog input	Ω	8 000

Auxiliary circuit		
Number of NC contacts for auxiliary contacts		1
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
Operating voltage of auxiliary contacts		
• at AC	V	90 121
• at DC	V	90 121
Operating current of auxiliary contacts		
• at AC	mA	5 1 000
• at DC	mA	5 1 000

Installation/ mounting/ dimensions		
Mounting type		clip-on
Mounting type Side-by-side mounting		Yes
Width	mm	45
Height	mm	111.5
Depth	mm	69.5

Connections/Terminals		
Type of electrical connection		
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Design of the thread of the connection screw of the		M3
auxiliary and control contacts		
Type of connectable conductor cross-sections		
<ul> <li>for auxiliary and control contacts</li> </ul>		
— solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded		
<ul> <li>— with core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>without core end processing</li> </ul>		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>at AWG conductors for auxiliary and control</li> </ul>		1x (AWG 20 12)
contacts		
Connectable conductor cross-section for auxiliary		
and control contacts		
• solid	mm²	0.5 2.5
• finely stranded		
<ul><li>— with core end processing</li></ul>	mm²	0.5 2.5
- without core end processing	mm²	0.5 2.5
AWG number as coded connectable conductor cross		12 20
section for auxiliary and control contacts		
Wire stripping length of the cable for auxiliary and	mm	7
control contacts		

Tightening torque for auxiliary and control contacts	N·m	0.5 0.6
with screw-type terminals		
Tightening torque [lbf·in] for auxiliary and control	lbf·in	4.5 5.3
contacts with screw-type terminals		

## Certificates/approvals

General Product Approval EMC Declaration of Conformity











Miscellaneous

Test Certific- ates	other	
Type Test Certific-	Confirmation	

Type Test Certificates/Test Report

## Further information

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

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

Industry Mall (Online ordering system)

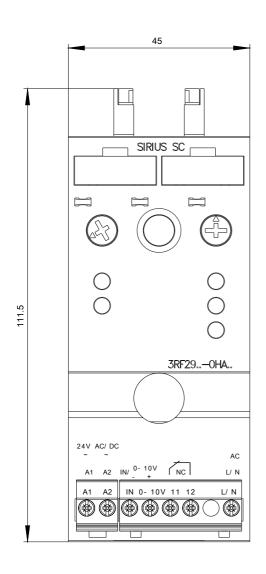
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2990-0HA36

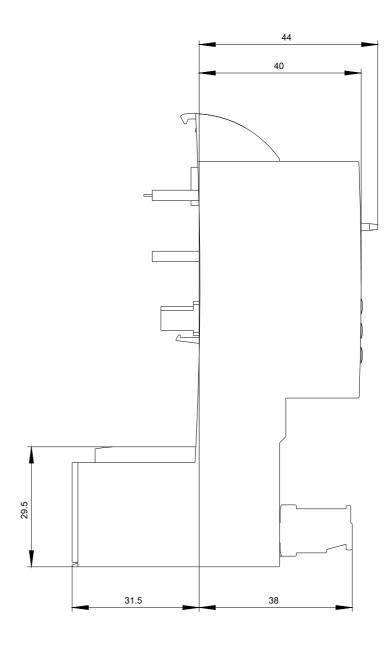
Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2990-0HA36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2990-0HA36&lang=en





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