



OUTPUT REGULATOR CURRENT RANGE 50 A 40  
DEGREES C 400-600 V / 24 V AC/DC TO SEMICON.  
RELAY/CONTACT. 3RF2

### 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 article number / _1 / of the accessories that can be ordered		<a href="#">3RF2900-0RA88</a>
Product designation / _2 / of the accessories that can be ordered		input reactor / 1AC
Manufacturer article number / _2 / of the accessories that can be ordered		<a href="#">4EM6204-0CB00</a>
Hole diameter / of the current transformer	mm	17
Ambient temperature		
• during operating	°C	-25 ... 60
• during storage	°C	-55 ... 80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		

- according to DIN 40719 extendable after IEC 204-2 / according to IEC 750
- according to DIN EN 61346-2

A

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

A

50

**Derating temperature**

°C

40

**Operating voltage**

- at 50 Hz / at AC / rated value

V

400 ... 600

- at 60 Hz / at AC / rated value

V

400 ... 600

**Working area related to the operating voltage**

- at 50 Hz / for AC

V

340 ... 660

- at 60 Hz / for AC

V

340 ... 660

**Operating frequency**

- rated value

Hz

50 ... 60

**Relative symmetrical tolerance / of the operation frequency**

%

10

**Insulation voltage / rated value**

V

600

**Kompensation of the mains voltage swing**

%

20

**Metering range current**

A

0 ... 55

**Control circuit:****type of voltage**

AC/DC

**Control supply voltage**

- for DC / rated value

V

24 ... 24

- at 50 Hz / at AC / rated value

V

24 ... 24

- at 60 Hz / at AC / rated value

V

24 ... 24

- at 50 Hz / for AC / final value for signal<0>-recognition

V

14

- at 60 Hz / for AC / final value for signal<0>-recognition

V

14

- for DC / final value for signal<0>-recognition

V

15

**Supply voltage frequency / for auxiliary and control current circuit**

- rated value

Hz

50 ... 60

**Tolerance of the line frequency**

Hz

5

**Relative symmetrical tolerance / of the supply voltage frequency**

%

10

**Control current / for AC / rated value**

mA

40

**Control current / for DC / rated value**

mA

40

**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 change-over switches / for auxiliary contacts		0
Operating voltage / of the auxiliary contacts		
• for AC	V	15 ... 30
• for DC	V	15 ... 30
Operating current / of the auxiliary contacts		
• for AC	mA	5 ... 1,000
• for DC	mA	5 ... 1,000

Installation/mounting/dimensions:		
Type of mounting		clip-on
Type of fixing/fixation / series installation		Yes
Width	mm	45
Height	mm	111.5
Depth	mm	69.5

Connections:		
Design of the electrical connection		
• for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
Type of the connectable conductor cross-section		
• for auxiliary and control contacts		
• solid		1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
• finely stranded		
• with conductor end processing		1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
• without conductor final cutting		1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
• for AWG conductors / for auxiliary and control contacts		1x (AWG 20 ... 12)
Conductor cross-section that can be connected / for auxiliary and control contacts		
• solid	mm <sup>2</sup>	0.5 ... 2.5
• stranded wire		
• with conductor end processing / minimum	mm <sup>2</sup>	0.5 ... 2.5
• without conductor final cutting	mm <sup>2</sup>	0.5 ... 2.5
AWG number / as coded connectable conductor cross-section		
• for auxiliary and control contacts		12 ... 20
Skinning length / of the cable / for auxiliary and control contacts	mm	7
Tightening torque / for auxiliary and control contacts		

• with screw-type terminals	N·m	0.5 ... 0.6
<b>Tightening torque (lbf·in) / for auxiliary and control contacts</b>		
• with screw-type terminals	lbf·in	4.5 ... 5.3

#### Certificates/approvals:

General Product Approval	Test Certificates	other
 <a href="#">ROSTEST</a> 	<a href="#">Manufacturer</a>	<a href="#">Manufacturer</a>

#### Further information:

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

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

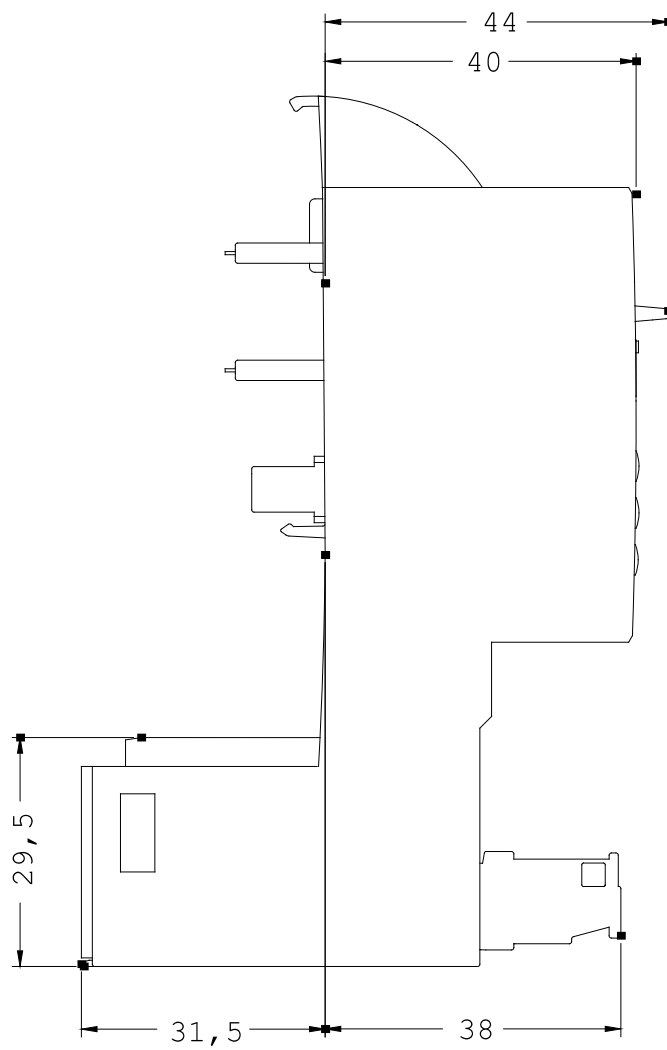
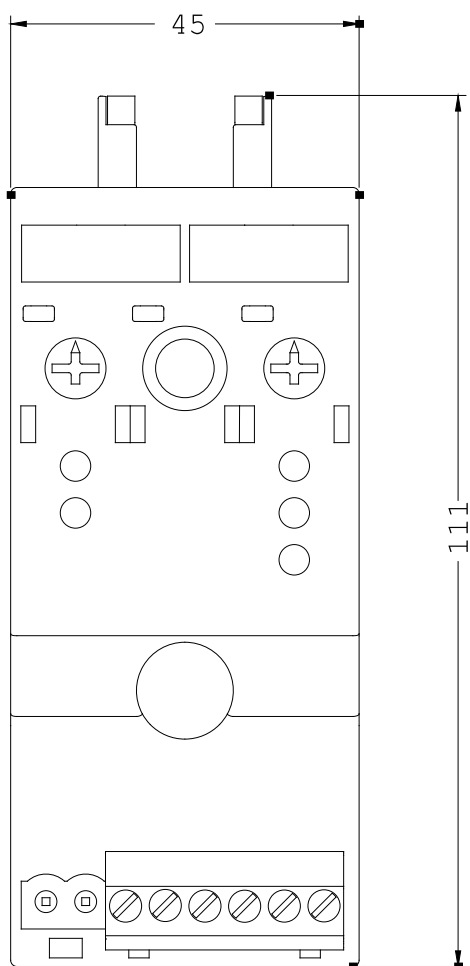
<http://www.siemens.com/cax>

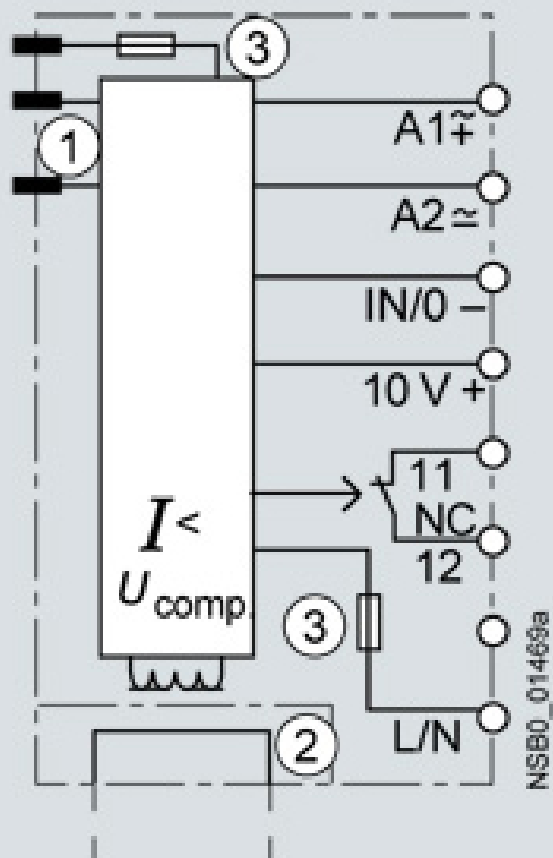
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF2950-0HA16/all>

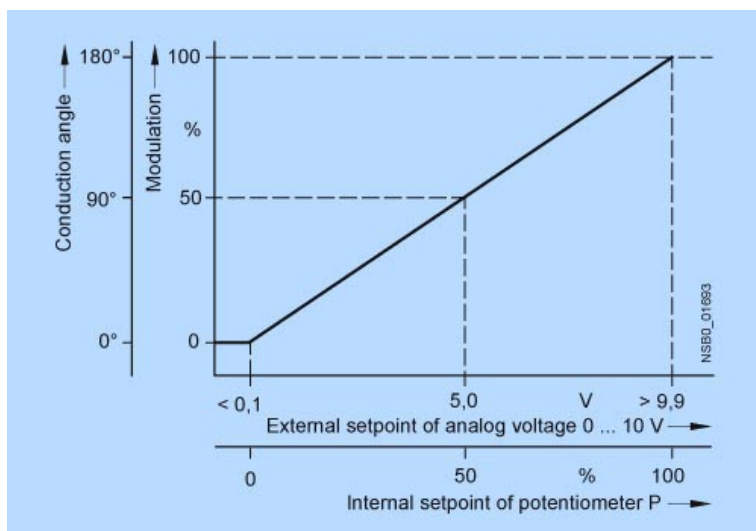
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RF2950-0HA16](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2950-0HA16)





- ① Internal connection
- ② Straight-through transformer
- ③ Voltage detection not electrically isolated (3 MΩ per path)



last change:

Aug 22, 2011