# **SIEMENS**

**Data sheet** 3RF2950-0KA16



power controller current range 50 A / 40 °C 400 ... 600 V 24 V AC/DC with partial load monitoring for semiconductor relay / contactor

product brand name product designation manufacturer's article number

- 1 of the accessories that can be ordered
- \_2 of the accessories that can be ordered

product designation

- \_1 of the accessories that can be ordered
- \_2 of the accessories that can be ordered

SIRIUS

power controller

3RF2900-0RA88 4EU2452-3UA00-0AA0

sealable end cover

input reactor / 1AC

#### General technical data

product function power loss [W] for rated value of the current without load current share typical

insulation voltage rated value

degree of pollution

surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27

vibration resistance according to IEC 60068-2-6

design of the switching function

reference code according to IEC 81346-2

Substance Prohibitance (Date)

solid-state relay / solid-state contactor 3RF2 1 W

600 V

3

2.5 kV

15g / 11 ms

2g

NC contact

05/01/2012

#### Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts type of voltage

operating voltage at AC

• at 50 Hz rated value • at 60 Hz rated value

operating frequency rated value relative symmetrical tolerance of the operating

frequency

operating range relative to the operating voltage at AC

• at 50 Hz

• at 60 Hz

operational current

• at AC-51 rated value derating temperature

0 0

AC/DC

400 ... 600 V 400 ... 600 V 50 ... 60 Hz

10 %

340 ... 660 V 340 ... 660 V

50 A 40 °C

### **Control circuit/ Control**

type of voltage control supply voltage at AC

> • at 50 Hz rated value at 60 Hz rated value

AC/DC

20.5 ... 26.5 V 20.5 ... 26.5 V

control supply voltage 1 at AC	
control supply voltage 1 at AC  • at 50 Hz rated value	24 V
at 50 Hz rated value     at 60 Hz rated value	24 V 24 V
	18 30 V
control supply voltage at DC rated value control supply voltage 1	10 50 V
at DC rated value	24 V
at DC rated value     at DC	24 V
	24 V
control supply voltage at AC  • at 50 Hz full-scale value for signal<0> recognition	5 V
at 60 Hz full-scale value for signal<0> recognition	5 V
control supply voltage at DC full-scale value for signal<0>	5 V
recognition	O V
supply voltage frequency for auxiliary and control	50 60 Hz
circuit rated value	
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
• at DC	2 mA
control current at AC rated value	40 mA
control current at DC rated value	40 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	clip-on
side-by-side mounting	Yes
height	111.5 mm
width	45 mm
depth	69.5 mm
Connections/ Terminals	
type of electrical connection	
for auxiliary and control circuit	screw-type terminals
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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>at AWG cables for auxiliary and control contacts</li> </ul>	1x (AWG 20 12)
tightening torque for auxiliary and control contacts with	0.5 0.6 N·m
screw-type terminals tightening torque [lbf·in] for auxiliary and control contacts	4.5 5.3 lbf·in
with screw-type terminals	
design of the thread of the connection screw of the auxiliary and control contacts	M3 _
stripped length of the cable for auxiliary and control contacts	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
due to conductor-earth surge according to IEC	2 kV behavior criterion 2
61000-4-5	
<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</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1

61000-4-6

electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment

Class B for the domestic, business and commercial environments

Certificates/ approvals

**General Product Approval** 

**EMC** 

Declaration of Conformity



Confirmation









Declaration of Conformity

**Test Certificates** 

other



Type Test Certificates/Test Report

Confirmation

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

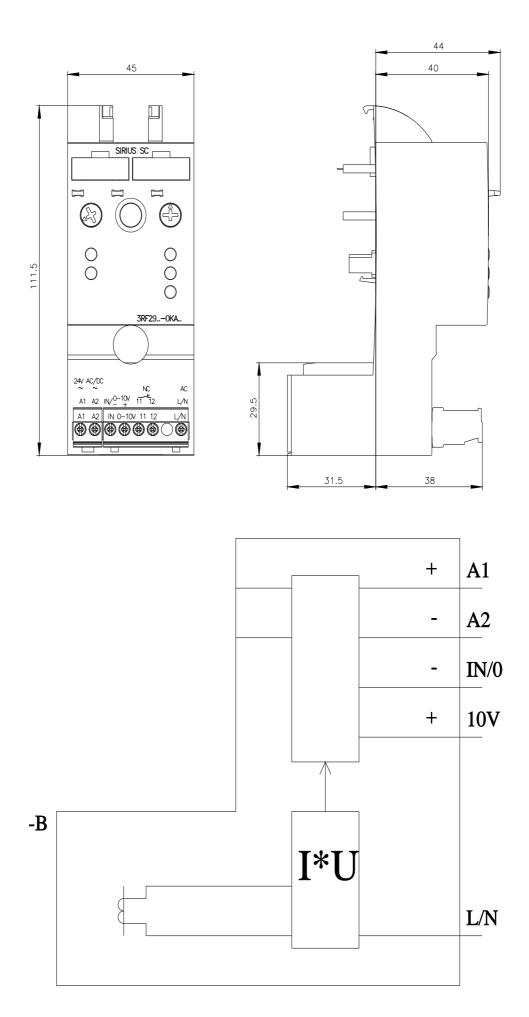
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2950-0KA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2950-0KA16

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0KA16">https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0KA16</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2950-0KA16&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2950-0KA16&lang=en</a>



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