



HEATER CURRENT MONITORING CURRENT RANGE 16A
40 DEG. C 110-230V / 24V AC/DC FOR SEMICONDUCTOR.
RELAY / CONTACTOR REMOTE / W/O CONTROL
CONNECT.

General technical data:		
product brand name		SIRIUS
product designation		heating current monitoring
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		3RF2900-0RA88
Hole diameter / of the current transformer	mm	17
Number of partial loads / for load monitoring		6
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		A

- according to DIN EN 61346-2

B

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	16
Derating temperature	°C	40
Operating voltage		
• at 50 Hz / at AC / rated value	V	110 ... 230
• at 60 Hz / at AC / rated value	V	110 ... 230
Working area related to the operating voltage		
• at 50 Hz / for AC	V	93.5 ... 253
• at 60 Hz / for AC	V	93.5 ... 253
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
Partial load / for load monitoring	A	0.42
Metering range current	A	0 ... 16

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
Response delay time	s	0.1 ... 3

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 mm²), 2x (0.5 ... 1.0 mm²)
• finely stranded		
• with conductor end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)
• without conductor final cutting		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)
• 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	mm²	0.5 ... 2.5
• stranded wire		
• with conductor end processing /	mm²	0.5 ... 2.5
• without conductor final cutting	mm²	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

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**

[Type Test
Certificates/Test
Report](#)

other

[Environmental
Confirmations](#)

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

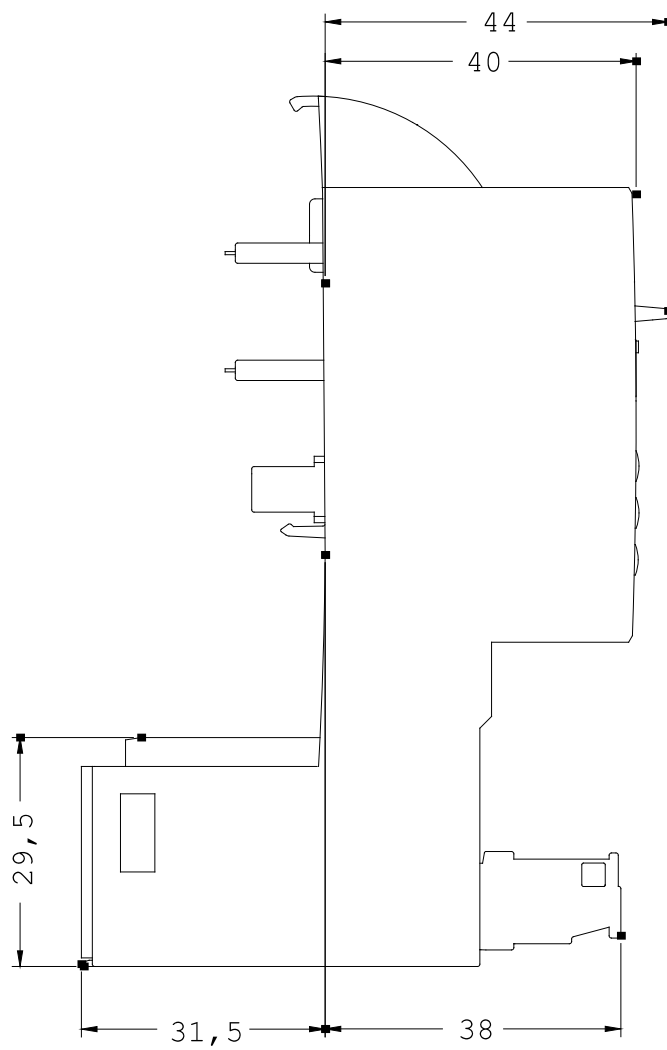
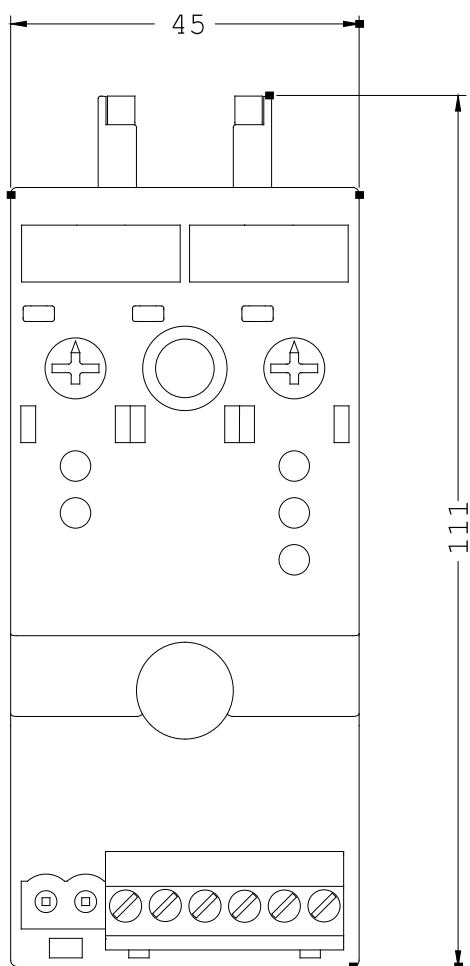
<http://www.siemens.com/cax>

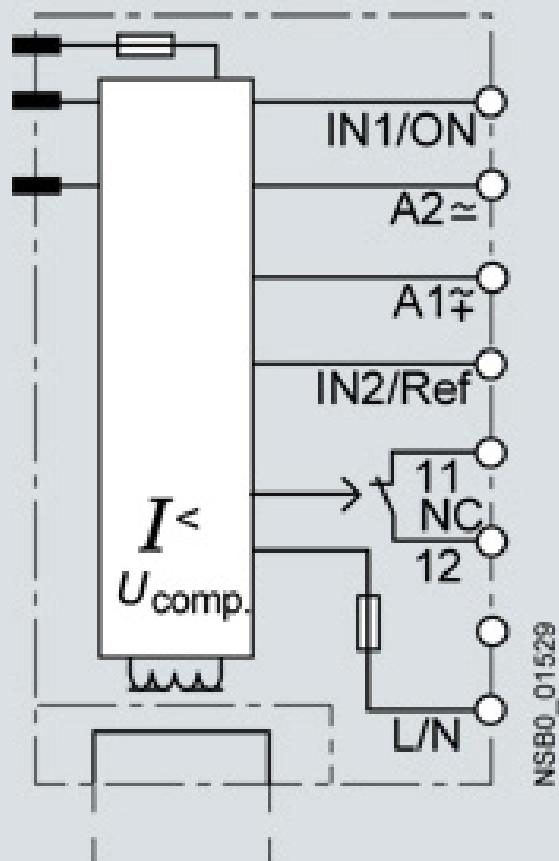
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF2916-0JA13/all>

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

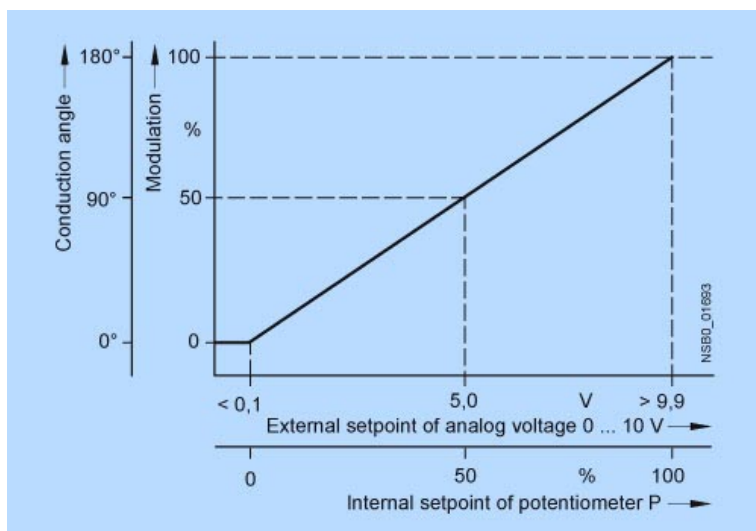
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2916-0JA13





NSB0_01528

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



last change:

Feb 18, 2013