SIEMENS

Product data sheet

3RF2990-0HA13



OUTPUT REGULATOR CURRENT RANGE 90 A 40 DEGREES C 110-230 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		3RF2900-0RA88	
Product designation / _2 / of the accessories that can be ordered		input reactor / 1AC	
Manufacturer article number / _2 / of the accessories that can be ordered		4EM6100-5CB00	
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		A
to IEC 750		
according to DIN EN 61346-2		К
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	А	90
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
Metering range current	А	0 99
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

Operating voltage

at the analog input

Tolerance of the line frequency

Control current / for AC / rated value

Control current / for DC / rated value

Source resistance / at the analog input

Relative symmetrical tolerance / of the supply voltage frequency

Hz

%

mΑ

mΑ

۷

Ω

5

10

40

40

-1 ... 11

8,000

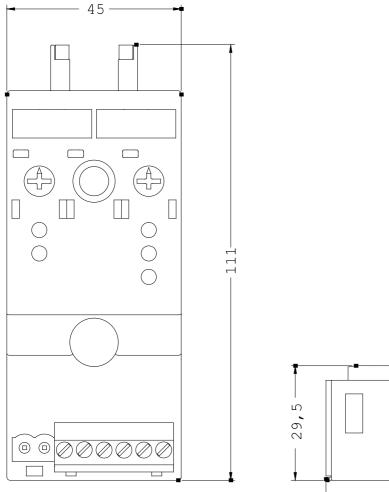
Auxiliary circuit:			
Number of NC contacts / for auxiliary contacts		1	
Number of NO contacts / for auxiliary contacts		0	
Number of change-over switches / for auxiliary contacts		0	
Operating voltage / of the auxiliary contacts			
• for AC	V	15 30	
• for DC	V	15 30	
Operating current / of the auxiliary contacts			
• for AC	mA	5 1,000	
• for DC	mA	5 1,000	

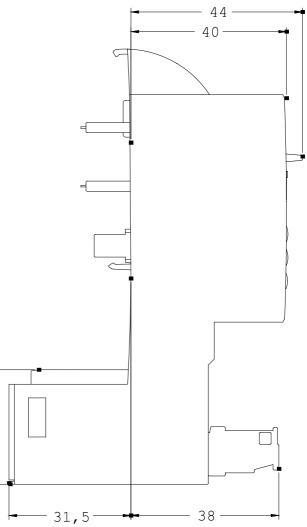
Installation/mounting/dimensions:			
Type of mounting		clip-on	
Type of fixing/fixation / series installation		Yes	
Width	mm	45	
Height	mm	111.5	
Depth	mm	69.5	

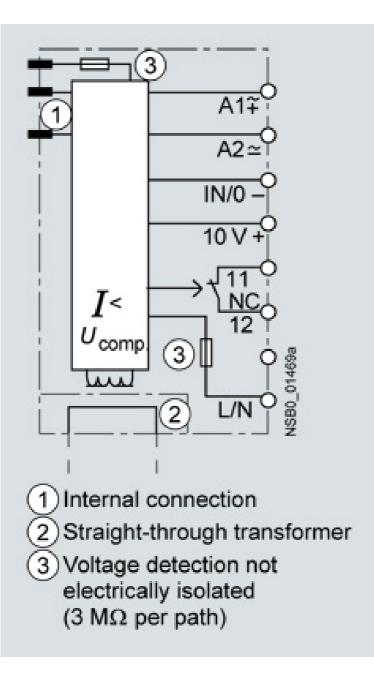
Connections:

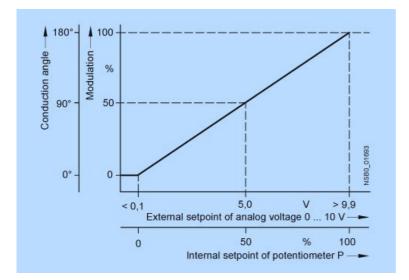
Design of the electrical connection		
 for auxiliary and control current circuit 		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
Type of the connectable conductor cross-section		
 for auxiliary and control contacts 		
• solid		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
finely stranded		
 with conductor end processi ng 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
 without conductor final cut ting 		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 / minimum 	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	5.3	
Certificates/approvals:				
General Product Approval	Test Certifica	ates	other	
ROSTEST	Manufacture	ŗ	Manufacturer	
CSA UL				
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/3RF2990-0HA13/all				
		diagram		
Image database (product images, 2D dimension drawings, 3D models, http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF299	•	ulagrams	,)	









last change:

Aug 22, 2011