SIEMENS

Data sheet 3RF2950-0HA13



power regulator current range 50 A / 40 $^{\circ}\text{C}$ 110 ... 230 V 24 V AC/DC for semiconductor relay / contactor

product brand name	SIRIUS
product designation	power regulator
manufacturer's article number	
_1 of the accessories that can be ordered	3RF2900-0RA88
_2 of the accessories that can be ordered	4EM5001-1CB00
product designation	
_1 of the accessories that can be ordered	sealable end cover
_2 of the accessories that can be ordered	input reactor / 1AC
General technical data	
product function	solid-state relay / solid-state contactor 3RF2
power loss [W] for rated value of the current	
 without load current share typical 	1 W
insulation voltage rated value	600 V
degree of pollution	3
surge voltage resistance of main circuit rated value	2.5 kV
protection class IP	IP20
protection class IP on the front according to IEC 60529	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	0.165 kg
Switching Function	
design of the switching function	NC contact
Main circuit	
number of poles for main current circuit	0
number of NO contacts for main contacts	0
number of NC contacts for main contacts	0
type of voltage	AC/DC
operating voltage at AC	
at 50 Hz rated value	110 230 V
at 60 Hz rated value	110 230 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
• at 50 Hz	93.5 253 V
• at 60 Hz	93.5 253 V
operational current	

at AC-51 rated value	50 A
derating temperature	40 °C
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20.5 26.5 V
at 60 Hz rated value	20.5 26.5 V
control supply voltage 1 at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage at DC rated value	18 30 V
control supply voltage 1 at DC rated value	24 V
control supply voltage 1 at DC final rated value	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> recognition	5 V
supply voltage frequency for auxiliary and control circuit rated value	50 60 Hz
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	2 4
• at AC	2 mA
at DC control current at AC rated value	2 mA 40 mA
control current at AC rated value	40 mA
Auxiliary circuit	TV III I
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method side-by-side mounting	Yes
fastening method	clip-on
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	
 for auxiliary and control contacts 	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— finely stranded without core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for AWG cables for auxiliary and control contacts	1x (AWG 20 12)
tightening torque for auxiliary and control contacts with screw- type terminals	0.5 0.6 N·m
tightening torque [lbf-in] for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf-in
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 Electrical Safety	7 mm
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	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	

• due to burst according to IEC 61000-4-4

• due to conductor-earth surge according to IEC 61000-4-5

• due to conductor-conductor surge according to IEC 61000-4-5

 due to high-frequency radiation according to IEC 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

2 kV / 5 kHz behavior criterion 2

2 kV behavior criterion 2

1 kV behavior criterion 2

140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1

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

Approvals Certificates

General Product Approval

EMV

Confirmation











Test Certificates other

Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

Environment

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RF2950-0HA13

Cax online generator

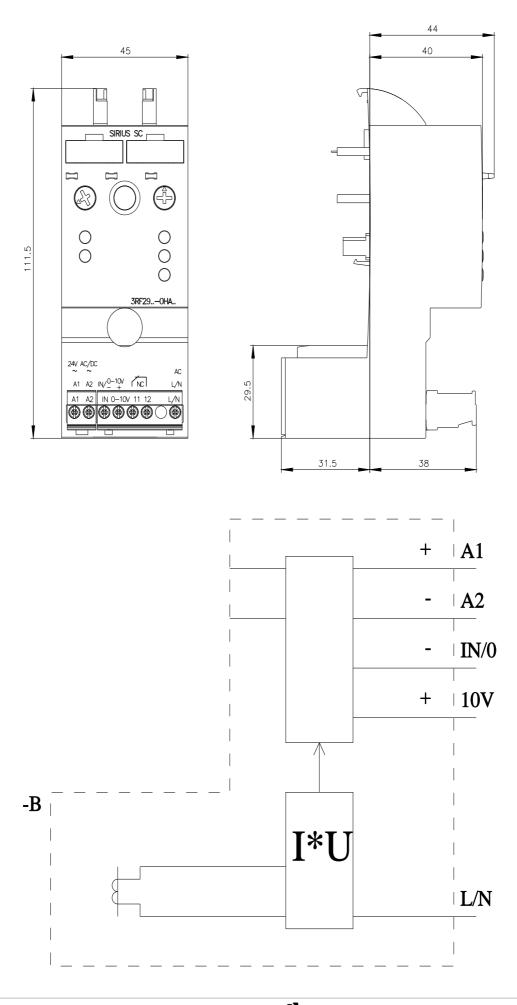
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2950-0HA13}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0HA13

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2950-0HA13&lang=en



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