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
shock resistance acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	2g
design of the switching function	NC contact
reference code acc. to IEC 81346-2	K
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-1 at 400 V rated value	50 A
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
control supply voltage at AC at 60 Hz rated value	20.5 26.5 V
control supply voltage at DC rated value	18 30 V
control supply voltage 1	
• at DC	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	50 0011
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	
• 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	0
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
donth	69.5 mm
depth	00.0 11111
Connections/ Terminals	30.0 min
Connections/ Terminals type of electrical connection	
type of electrical connection • for auxiliary and control circuit	screw-type terminals
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections	
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts	screw-type terminals
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
type of electrical connection	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
type of electrical connection • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12)
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type of electrical connection	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 0.5 0.6 N·m 4.5 5.3 lbf·in M3 7 mm
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type of electrical connection	screw-type terminals 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 0.5 0.6 N·m 4.5 5.3 lbf·in M3 7 mm IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C

• due to conductor-conductor surge acc. to IEC 61000-4-5

• due to high-frequency radiation acc. to IEC 61000-4-6

electrostatic discharge acc. to IEC 61000-4-2

conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11

neid-bound HF interference emission acc. to CISF

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

Short-circuit protection, design of the fuse link

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

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=3RF2950-0HA13

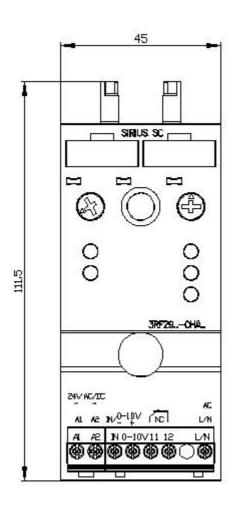
Cax online generator

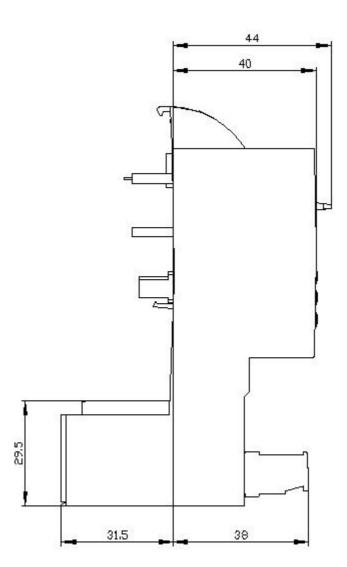
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2950-0HA13

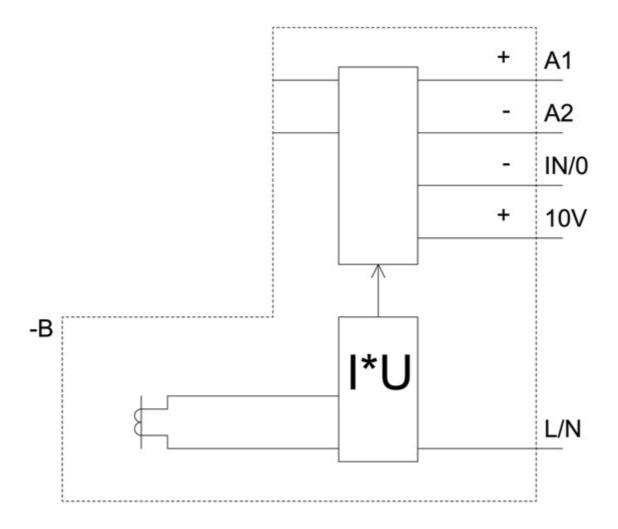
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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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