SIEMENS

Data sheet 3RF2990-0HA33



power regulator current range 90 A / 40 $^{\circ}\text{C}$ 110 ... 230 V / 110 V AC 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	4EP3701-7DS00
product designation	
_1 of the accessories that can be ordered	sealable end cover
_2 of the accessories that can be ordered	input reactor / 3AC
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 	2.2 W
insulation voltage rated value	600 V
degree of pollution	3
surge voltage resistance of main circuit rated value	2.5 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
design of the switching function	NC contact
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	05/01/2012
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
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 	90 A
derating temperature	40 °C
Control circuit/ Control	
type of voltage	AC
control supply voltage at AC	
 at 50 Hz rated value 	90 121 V

• at 60 Hz rated value	90 121 V
control supply voltage 1 at AC • at 50 Hz	110 V
control supply voltage at AC	110 V
 at 50 Hz full-scale value for signal<0> recognition 	15 V
 at 60 Hz full-scale value for signal<0> recognition 	15 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 • at DC	2 mA
control current at AC rated value	20 mA
Auxiliary circuit	20.00
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 depth	45 mm 69.5 mm
Connections/ Terminals	00.0 1.111
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 at AWG cables for auxiliary and control contacts 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 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 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	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 ■ during operation	-25 +60 °C
during operation during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Certificates/ approvals	
General Product Approval	EMC Declaration of



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation

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=3RF2990-0HA33

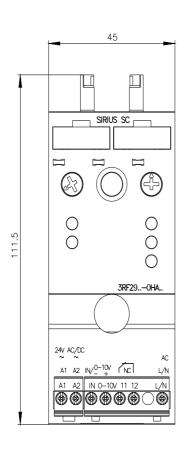
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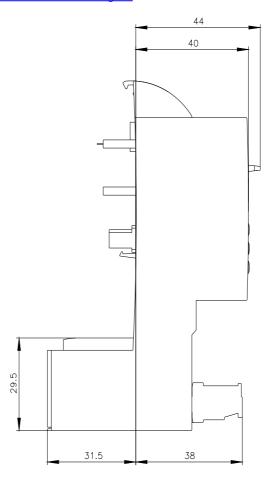
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2990-0HA33

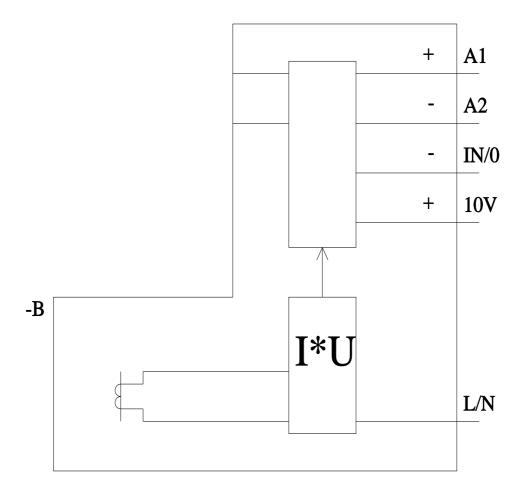
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RF2990-0HA33

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2990-0HA33&lang=en







last modified: 3/11/2021 🖸