



converter control voltage 24 V AC/DC for semiconductor relay / contactor

product brand name	SIRIUS
product designation	converter
General technical data	
product function	solid-state relay / solid-state contactor 3RF2
degree of pollution	3
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	T
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.042 kg
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 frequency rated value	50 ... 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
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
supply voltage frequency for auxiliary and control circuit rated value	50 ... 60 Hz
symmetrical line frequency tolerance	5 Hz
control current at AC rated value	25 mA
control current at DC rated value	25 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
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	83.5 mm
width	22.5 mm
depth	38 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 mm ²), 2x (0.5 ... 1.0 mm ²)
— finely stranded with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
— finely stranded without core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
• 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	7 mm
Electrical Safety	
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	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	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Approvals Certificates	
General Product Approval	EMV
	Confirmation
	
	
Test Certificates	
Test Certificates/Test Report	Confirmation
Environmental Confirmations	
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=3RF2900-0EA18>

Cax online generator

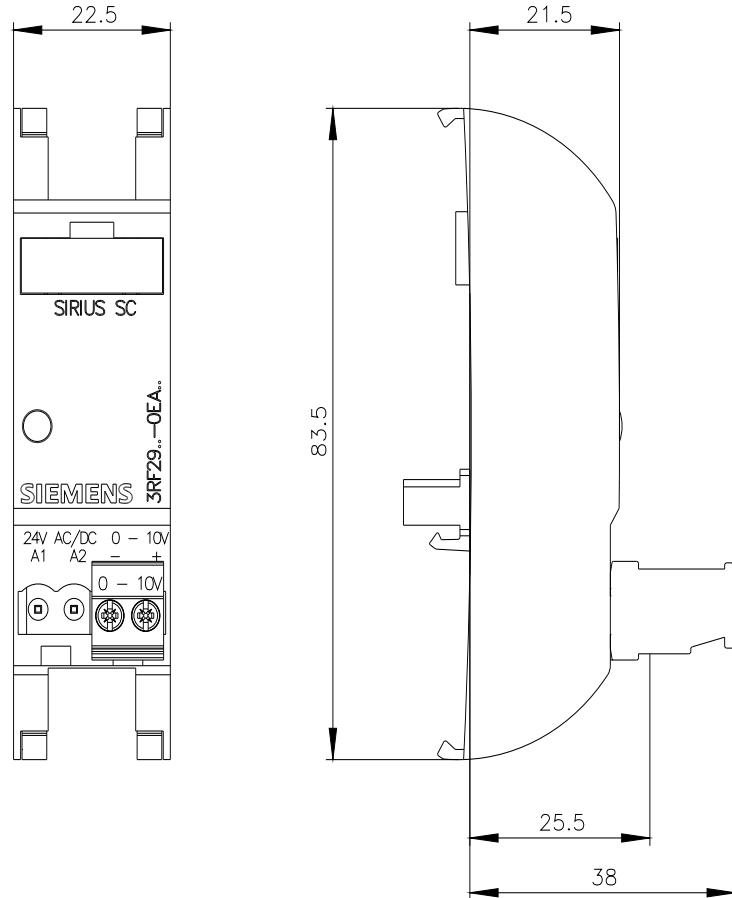
<http://support.automation.siemens.com/WW/CAxorder/default.aspx?lang=en&mlfb=3RF2900-0EA18>

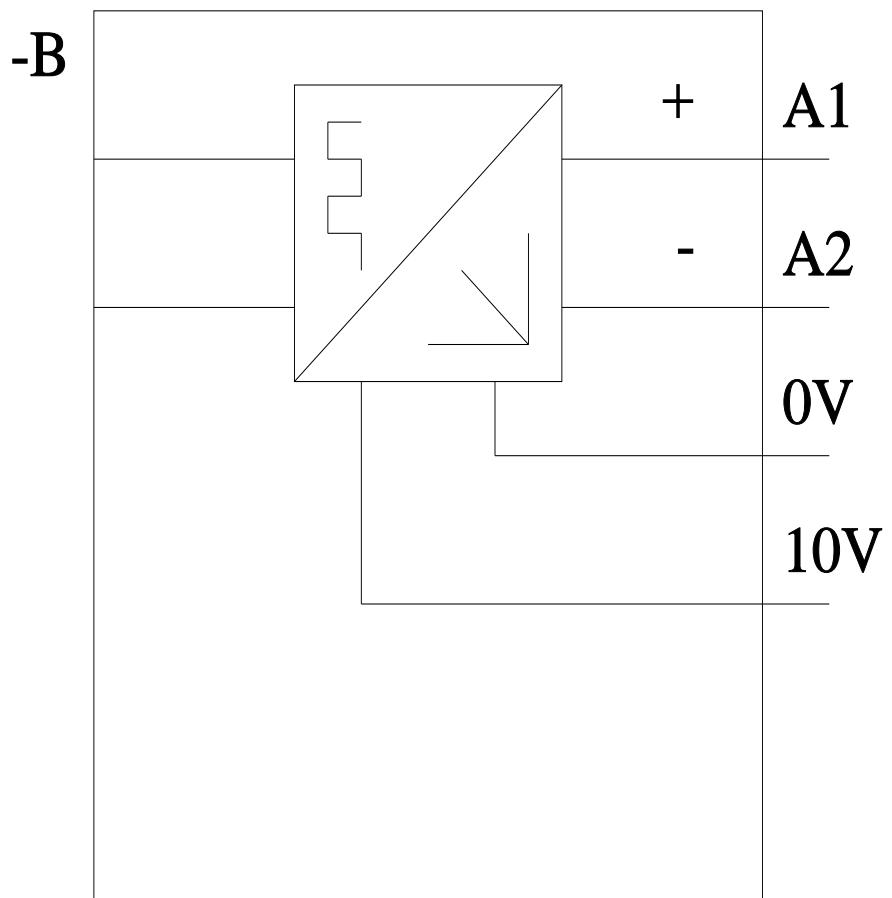
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/pb/3RF2900-0EA18>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2900-0EA18&lang=en





last modified:

3/11/2024