

Converter Control supply 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
Shock resistance / acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance / acc. to IEC 60068-2-6	2g
Reference code / acc. to DIN EN 81346-2	T

### 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
Operating frequency / rated value	50 ... 60 Hz
Relative symmetrical tolerance / of the operating frequency	10 %
Derating temperature	40 °C

### Control circuit/ Control

<b>Symmetrical line frequency tolerance</b>	5 Hz
Control current / at AC / rated value	25 mA
Control current / at DC / rated value	25 mA
<b>Number of NC contacts / for auxiliary contacts</b>	0
<b>Number of NO contacts / for auxiliary contacts</b>	0
Number of CO contacts / for auxiliary contacts	0

Installation/ mounting/ dimensions	
<b>Mounting type</b>	clip-on
• Side-by-side mounting	Yes
<b>Height</b>	83.5 mm
<b>Width</b>	22.5 mm
<b>Depth</b>	38 mm
<b>Installation altitude / at height above sea level / maximum</b>	1 000 m

Connections/ Terminals	
<b>Type of electrical connection</b>	
• for auxiliary and control current circuit	screw-type terminals
<b>Type of connectable conductor cross-sections</b>	
• for auxiliary and control contacts	
— solid	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
— finely stranded / with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
— finely stranded / without core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
• at AWG conductors / for auxiliary and control contacts	1x (AWG 20 ... 12)
<b>Tightening torque</b>	
• for auxiliary and control contacts / with screw-type terminals	0.5 ... 0.6 N·m
<b>Tightening torque [lbf·in]</b>	
• for auxiliary and control contacts / with screw-type terminals	4.5 ... 5.3 lbf·in
<b>Design of the thread / of the connection screw</b>	
• of the auxiliary and control contacts	M3
<b>Wire stripping length / of the cable</b>	
• for auxiliary and control contacts	7 mm

Electromagnetic compatibility	
<b>Conducted interference</b>	
• due to burst / acc. to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
• due to conductor-earth surge / acc. to IEC 61000-4-5	2 kV behavior criterion 2
• due to conductor-conductor surge / acc. to IEC 61000-4-5	1 kV behavior criterion 2

<ul style="list-style-type: none"> <li>• due to high-frequency radiation / acc. to IEC 61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1
<b>Electrostatic discharge / acc. to IEC 61000-4-2</b>	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
<b>Conducted HF-interference emissions / acc. to CISPR11</b>	Class A for industrial environment
<b>Field-bound HF-interference emission / acc. to CISPR11</b>	Class B for the domestic, business and commercial environments

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



