## SIEMENS

## Data sheet

## 3RF2900-0EA18



Converter Control supply voltage 24 V AC/DC for semiconductor relay /  $\ensuremath{\mathsf{contactor}}$ 

product brand name	SIRIUS	
product designation	converter	
General technical data		
product function	solid-state relay / solid-state contactor 3RF2	
degree of pollution	3	
shock resistance acc. to IEC 60068-2-27	15g / 11 ms	
vibration resistance acc. to IEC 60068-2-6	2g	
reference code acc. to IEC 81346-2	Т	
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	
<ul> <li>control supply voltage at AC at 50 Hz rated value</li> </ul>	20.5 26.5 V	
<ul> <li>control supply voltage at AC at 60 Hz rated value</li> </ul>	20.5 26.5 V	
control supply voltage at DC rated value	18 30 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	clip-on	
<ul> <li>side-by-side mounting</li> </ul>	Yes	
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	
<ul> <li>for auxiliary and control contacts</li> </ul>	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>at AWG cables for auxiliary and control contacts</li> </ul>	1x (AWG 20 12)
<ul> <li>tightening torque for auxiliary and control contacts with screw-type terminals</li> </ul>	0.5 0.6 N·m
<ul> <li>tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals</li> </ul>	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
UL/CSA ratings	
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV behavior criterion 2
<ul> <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
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions acc. to CISPR11	Class A for industrial environment
field-bound HF interference emission acc. to CISPR11	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
	RCM Miscellaneous CEE
Test Certificates other	
<u>Type Test</u> <u>Confirmation</u> <u>Certificates/Test</u>	

Report

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, ...)



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