SIEMENS

Data sheet 3RF2900-0EA18



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		
shock resistance according to IEC 60068-2-27	15g / 11 ms		
vibration resistance according to IEC 60068-2-6	2g		
reference code according to EN 61346-2	T		
reference code according to IEC 81346-2	Т		
Substance Prohibitance (Date)	07/01/2006		
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	clip-on		

• side-by-side mounting	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				
 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 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
 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			
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 f	rom 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			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Con- formity	

Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

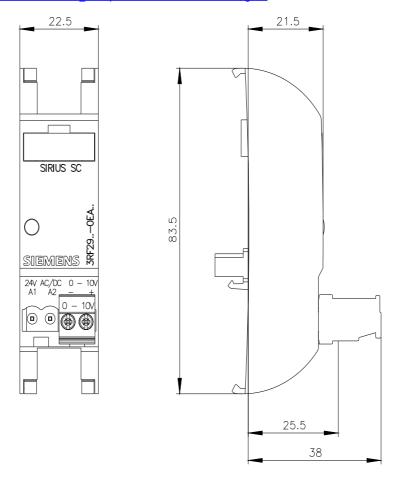
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2900-0EA18

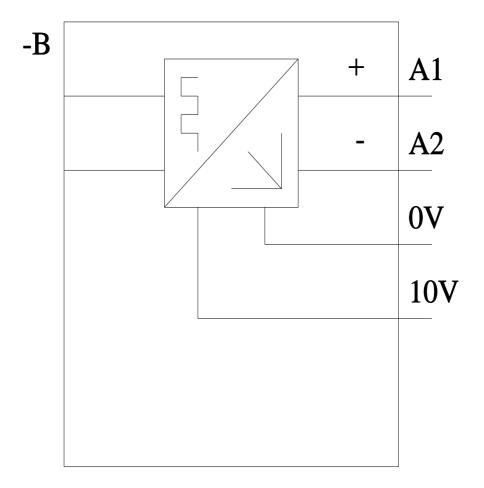
Cax online generator

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

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

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





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