

Converter Control supply voltage 24 V AC/DC for
semiconductor relay / contactor



General technical data		
product brandname		SIRIUS
Product designation		converter
Product function		solid-state relay / solid-state contactor 3RF2
Number of poles for main current circuit		0
Protection class IP		IP20
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		U
Equipment marking acc. to DIN EN 61346-2		T
Main circuit		
Number of NO contacts for main contacts		0
Number of NC contacts for main contacts		0

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

Control circuit/ Control

Type of voltage		AC/DC
Control supply voltage		
• at DC		
— rated value	V	18 ... 30
• at AC		
— at 50 Hz		
— rated value	V	20.5 ... 26.5
— at 60 Hz		
— rated value	V	20.5 ... 26.5
Supply voltage frequency for auxiliary and control current circuit rated value	Hz	50 ... 60
Symmetrical line frequency tolerance	Hz	5
Relative symmetrical tolerance of the supply voltage frequency	%	10
Control current		
• at AC rated value	mA	25
• at DC rated value	mA	25
Operating voltage at the analog input	V	-2 ... +10
Source resistance at the analog input	Ω	100 000

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





Mounting type		clip-on
Mounting type Side-by-side mounting		Yes
Width	mm	22.5
Height	mm	83.5
Depth	mm	38

Connections/Terminals

Type of electrical connection		
• for auxiliary and control current circuit		screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts		M3
Type of connectable conductor cross-sections		
• for auxiliary and control contacts		
— solid		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)

<ul style="list-style-type: none"> — finely stranded — with core end processing — without core end processing • at AWG conductors for auxiliary and control contacts 		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) 1x (AWG 20 ... 12)
Connectable conductor cross-section for auxiliary and control contacts		
<ul style="list-style-type: none"> • solid 	mm ²	0.5 ... 2.5
<ul style="list-style-type: none"> • finely stranded 		
— with core end processing	mm ²	0.5 ... 2.5
— without core end processing	mm ²	0.5 ... 2.5
AWG number as coded connectable conductor cross section for auxiliary and control contacts		12 ... 20
Wire stripping length of the cable for auxiliary and control contacts	mm	7
Tightening torque for auxiliary and control contacts with screw-type terminals	N·m	0.5 ... 0.6
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf·in	4.5 ... 5.3

Certificates/approvals

General Product Approval	EMC	Declaration of Conformity	Test Certificates	other
 CSA	 UL	 C-Tick	 EG-Konf.	Type Test Certificates/Test Report Confirmation

Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2900-0EA18>

Cax online generator

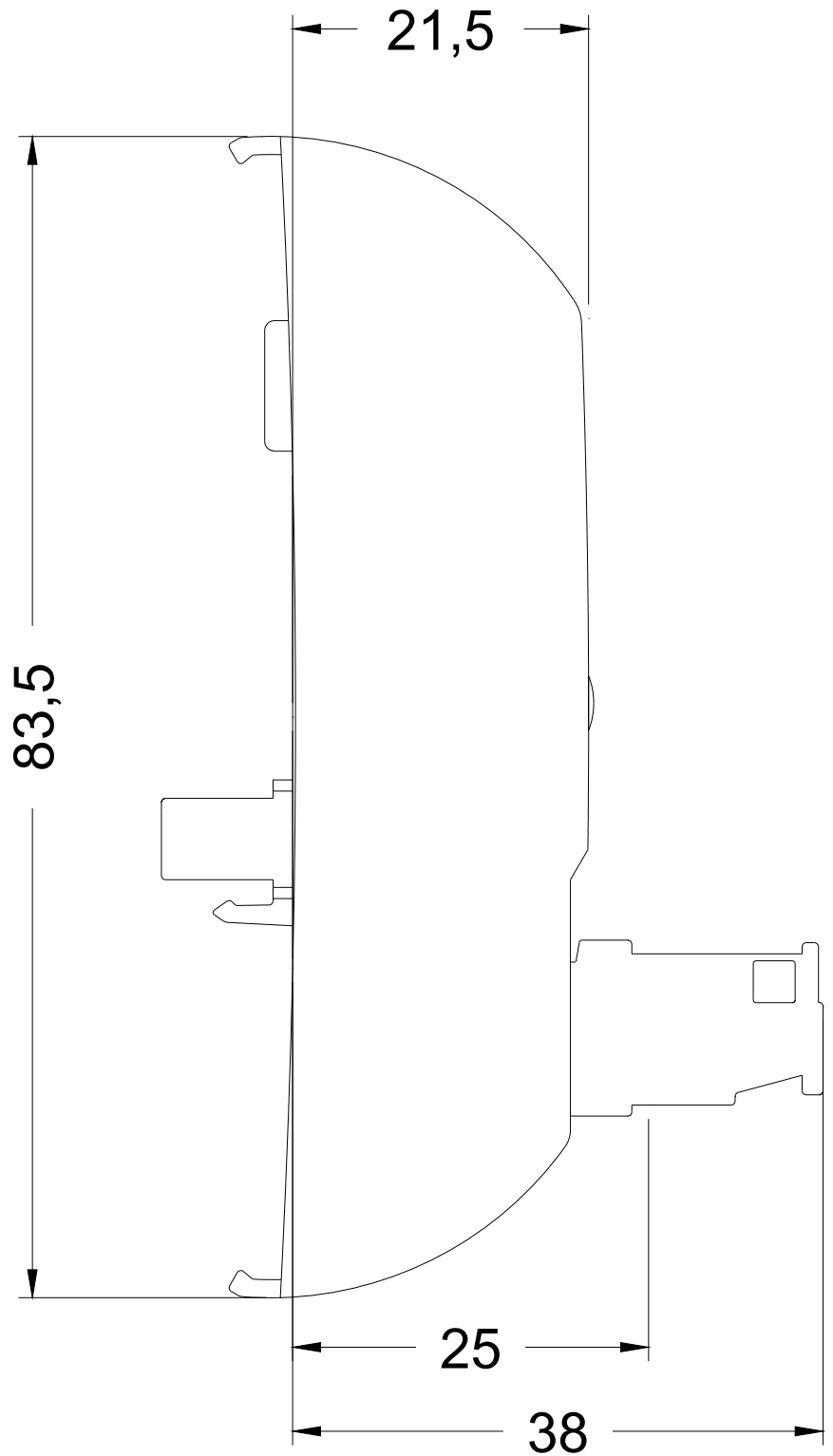
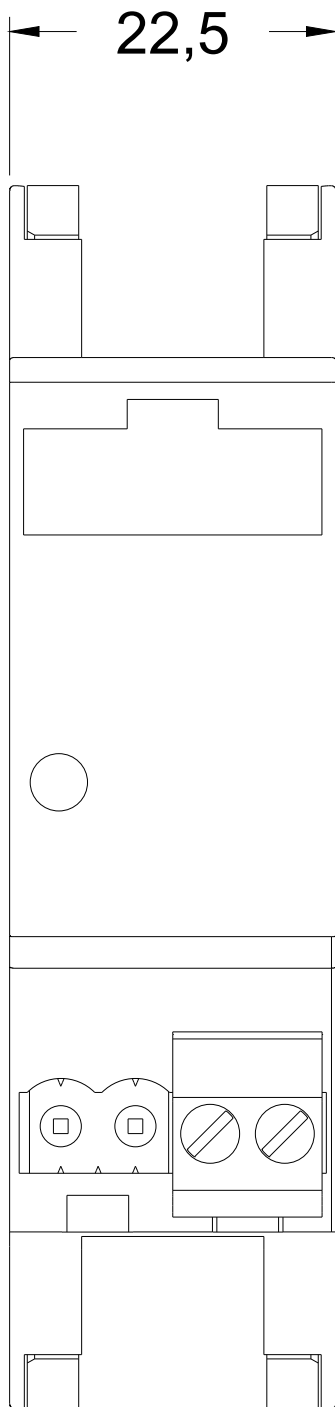
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2900-0EA18>

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



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01/12/2018