



CONVERTER CONTROL VOLTAGE 24 V UC FOR SEMI-COND. RELAY/CONT. 3RF2

General technical data:

product brand name		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
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Control supply voltage		
<ul style="list-style-type: none"> • for DC <ul style="list-style-type: none"> — Rated value — Full-scale value for signal<0> recognition • with AC <ul style="list-style-type: none"> — at 50 Hz <ul style="list-style-type: none"> — Rated value — Full-scale value for signal<0> recognition — at 60 Hz <ul style="list-style-type: none"> — Rated value — Full-scale value for signal<0> recognition 	V	24 ... 24
	V	10
	V	24 ... 24
	V	10
	V	24 ... 24
	V	10
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		
<ul style="list-style-type: none"> • with AC Rated value • for DC Rated value 	mA	25
	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		
<ul style="list-style-type: none"> • 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-section		
<ul style="list-style-type: none"> • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded 		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)

<ul style="list-style-type: none"> — with core end processing — without core end processing • for 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 • finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 	mm ² mm ² mm ²	0.5 ... 2.5 0.5 ... 2.5 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
 CSA	 UL	 EAC	 C-TICK
		 EG-Konf.	Type Test Certificates/Test Report

other

[Environmental Confirmations](#)

Further information

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

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

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

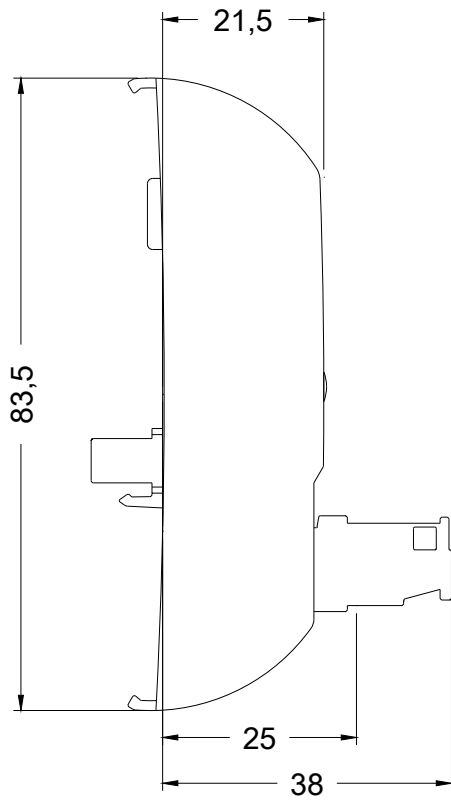
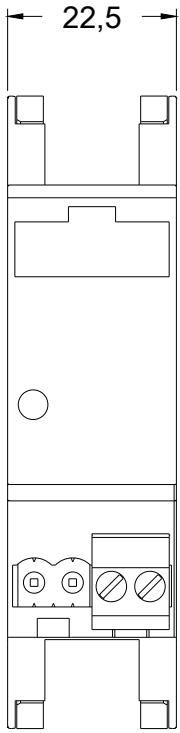
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29000EA18>

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

<http://support.automation.siemens.com/WW/view/en/3RF29000EA18/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF29000EA18&lang=en



last modified:

09.03.2015