



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 operating	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		U
• according 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 operation frequency	%	10

Control circuit:		
type of voltage		AC/DC
Control supply voltage		
• for DC / rated value	V	24 ... 24
• at 50 Hz / at AC / rated value	V	24 ... 24
• at 60 Hz / at AC / rated value	V	24 ... 24
• at 50 Hz / for AC / final value for signal<0>-recognition	V	10
• at 60 Hz / for AC / final value for signal<0>-recognition	V	10
• for DC / final value for signal<0>-recognition	V	10
Supply voltage frequency / for auxiliary and control current circuit		
• rated value	Hz	50 ... 60
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the supply voltage frequency	%	10
Control current / for AC / rated value	mA	25
Control current / for 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 change-over switches / for auxiliary contacts		0

Installation/mounting/dimensions:		
Type of mounting		clip-on
Type of fixing/fixation / series installation		Yes
Width	mm	22.5
Height	mm	83.5
Depth	mm	38

Connections:		
Design of the electrical connection		
• for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
Type of the connectable conductor cross-section		
• for auxiliary and control contacts		

• solid • finely stranded • with conductor end processing • without conductor final cutting • 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 (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) 1x (AWG 20 ... 12)
Conductor cross-section that can be connected / for auxiliary and control contacts		
• solid	mm ²	0.5 ... 2.5
• stranded wire • with conductor end processing / • without conductor final cutting	mm ² mm ²	0.5 ... 2.5 0.5 ... 2.5
AWG number / as coded connectable conductor cross-section		
• for auxiliary and control contacts		12 ... 20
Skinning 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  GOST  UL  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/industrial-controls/mall>

CAX-Online-Generator

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

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

<http://support.automation.siemens.com/WW/view/en/3RF2900-0EA18/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2900-0EA18



