



SEMI-COND. CONTACTOR 3RF2,
1-PH AC 51 10 A 40 DEGREES C 48-460 V / 24 V DC
SPRING-LOADED TERMINAL

General technical data:		
product brand name		SIRIUS
product designation		solid-state contactor
Product function		zero-point switching
Number of poles / for main current circuit		1
Protection class IP		IP20
Product designation / _3 / of the accessories that can be ordered		converter
Manufacturer article number / _3 / of the accessories that can be ordered		3RF2900-0EA18
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		K
• according to DIN EN 61346-2		Q
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

Main circuit:

Number of NO contacts / for main contacts		1
Number of NC contacts / for main contacts		0
Operating current • at AC-1 / at 400 V / rated value • at AC-51 / rated value	A A	10.5 10.5
Operating current / minimum	mA	100
Operating voltage • at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value	V V	48 ... 460 48 ... 460
Working area related to the operating voltage • at 50 Hz / for AC • at 60 Hz / for AC	V V	40 ... 506 40 ... 506
Operating frequency • rated value	Hz	50 ... 60
Insulation voltage / rated value	V	600
Voltage slew rate / at the thyristor / for main contacts / maximum permissible	V/μs	500
Block voltage / at the thyristor / for main contacts / maximum permissible	V	1,200
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Active power loss / total / typical	W	11
Resistance against the impulse current / rated value	A	200
I ² t-level / maximum	A ² ·s	200

Control circuit:

Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1 • for DC • initial rated value • final rated value	V V	15 24
Control supply voltage • for DC / final value for signal<0>-recognition	V	5
Control current • at minimum control supply voltage / for DC • for DC / rated value	mA mA	2 15

Installation/mounting/dimensions:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N·m	1.5
Width	mm	22.5
Height	mm	100
Depth	mm	94

Connections:

Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section • for main contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors • for main contacts • for auxiliary and control contacts • for auxiliary and control contacts • solid • finely stranded • with conductor end processing • without conductor final cutting		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (18 ... 14) 1x (AWG 20 ... 12) 0.5 ... 1.5 mm ² 0.5 ... 2.5 mm ² 0.5 ... 2.5 mm ²
Conductor cross section that can be connected • for main contacts • solid • stranded wire • with conductor end processing • without conductor final cutting • for auxiliary and control contacts • solid • stranded wire • with conductor end processing / • without conductor final cutting	mm ² mm ² mm ² mm ² mm ² mm ²	0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 2.5

AWG number / as coded connectable conductor cross-section / for main contacts		10 ... 14
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
AWG number / as coded connectable conductor cross-section • for auxiliary and control contacts		20 ... 12
Skinning length / of the cable / for main contacts	mm	7
Skinning length / of the cable / for auxiliary and control contacts	mm	7

Certificates/approvals:

General Product Approval			EMC	Declaration of Conformity
 CSA	 GOST	 UL	 C-TICK	 EG-Konf.
Test Certificates		other		
Special Test Certificate	Type Test Certificates/Test Report	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

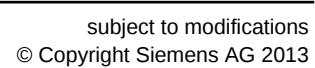
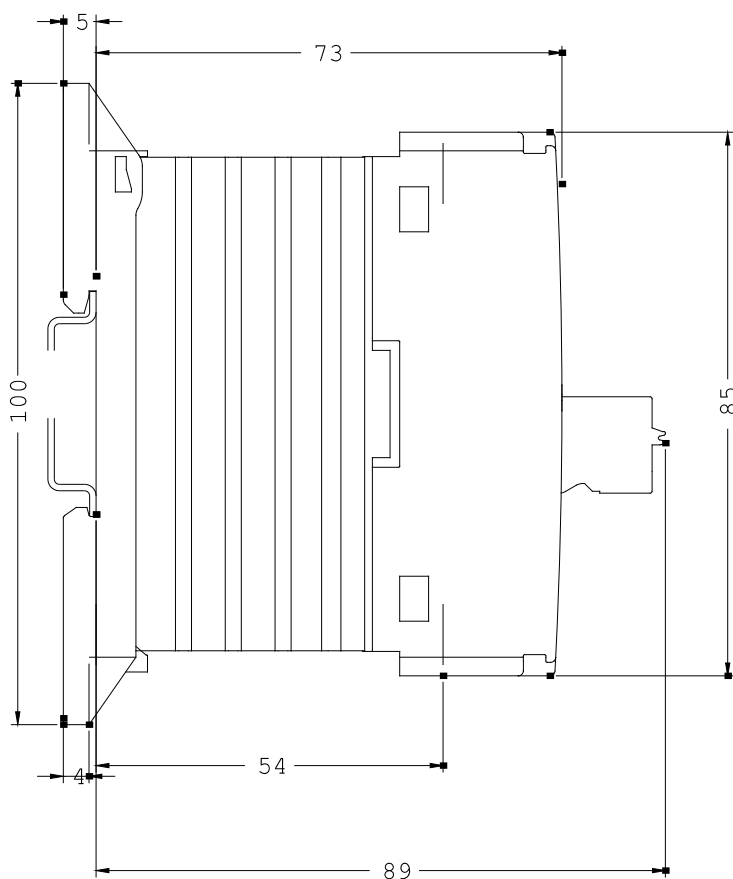
<http://www.siemens.com/cax>

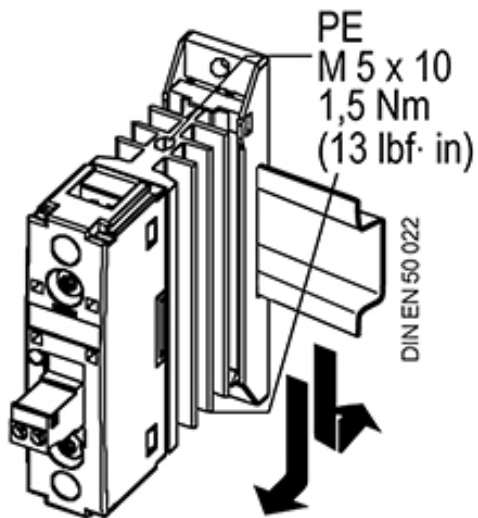
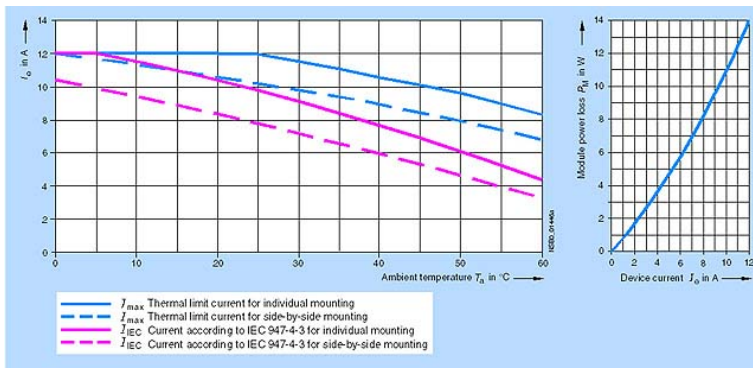
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF2310-2AA04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2310-2AA04





last change:

Feb 4, 2013