

SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 20 A  
40 DEGREES C 24-230 V / 24 V DC LOW NOISE



General technical data:

product brand name		SIRIUS
Product designation		solid-state contactor
Product function		low noise
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		<a href="#">3RF2900-0EA18</a>
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		K
Equipment marking acc. to DIN EN 61346-2		Q

Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts 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-51 Rated value	A	20
Operating current minimum	mA	500
Operating voltage at AC		
• at 50 Hz Rated value	V	24 ... 230
• at 60 Hz Rated value	V	24 ... 230
Operating range relative to the operating voltage at AC		
• at 50 Hz	V	20 ... 253
• at 60 Hz	V	20 ... 253
Operating frequency Rated value	Hz	50 ... 60
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/ $\mu$ s	1 000
Blocking voltage at the thyristor for main contacts maximum permissible	V	800
Reverse current of the thyristor	mA	25
Derating temperature	$^{\circ}$ C	40
Active power loss total typical	W	20
Surge current resistance Rated value	A	600
I <sup>2</sup> t value maximum	A <sup>2</sup> ·s	1 800

#### Control circuit/ Control:

Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC		
— Initial rated value	V	15
— Final rated value	V	24
Control supply voltage		
• at DC Full-scale value for signal<0> recognition	V	5
Control current		
• at minimum control supply voltage		
— at DC	mA	2
• at DC Rated value	mA	15

#### Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
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**Wire stripping length of the cable**

- for main contacts
- for auxiliary and control contacts

mm	7
mm	7

**Certificates/ approvals:**

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CSA	 UL		 C-TICK
 EG-Konf.			<a href="#">spezielle Prüfbescheinigungen</a> n

Test Certificates	other
<a href="#">Typprüfbescheinigung/Werkszeugnis</a>	<a href="#">Umweltbestätigung</a>

**Further information****Short-circuit protection, design of the fuse link**

[https://www.automation.siemens.com/cd-static/material/info/3RF23\\_eng.pdf](https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf)

**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**

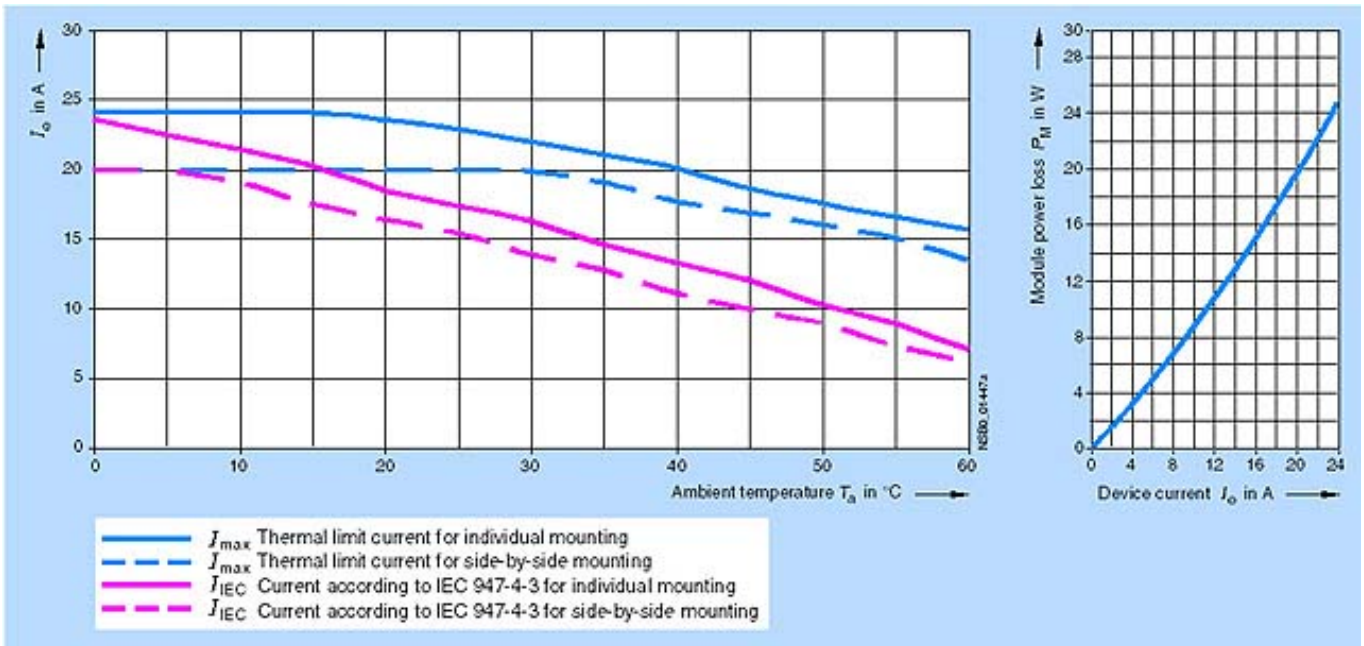
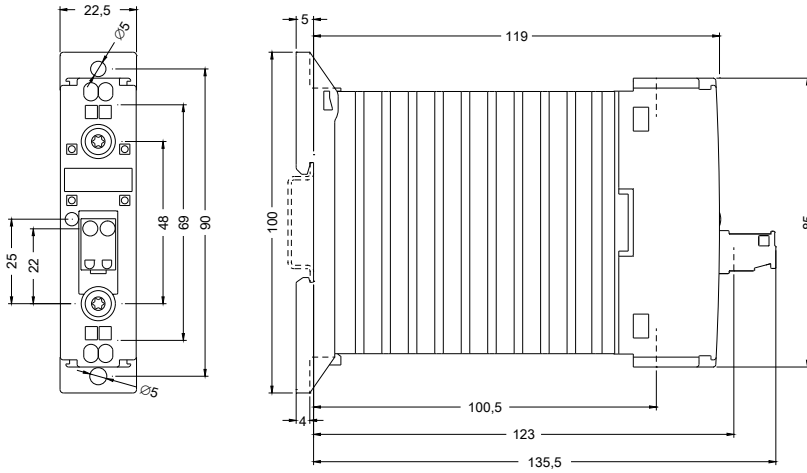
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23202CA02>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF23202CA02>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RF23202CA02&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23202CA02&lang=en)



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