

Load monitoring basis Current range 20 A / 40 °C
Control voltage 24 V DC for semiconductor relay /
contactor Output NO



General technical data		
product brandname		SIRIUS
Product designation		load monitoring, basis
Product function		solid-state relay / solid-state contactor 3RF2
Number of poles for main current circuit		0
Protection class IP		IP20
Product designation _1 of the accessories that can be ordered		sealable end cover
Manufacturer's article number _1 of the accessories that can be ordered		3RF2900-0RA88
Hole diameter of the current transformer	mm	7
Number of partial loads for load monitoring		6
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		A
Equipment marking acc. to DIN EN 61346-2		B

Main circuit

Number of NO contacts for main contacts		0
Number of NC contacts for main contacts		0
Operating current		
• at AC-1 at 400 V rated value	A	20
Derating temperature	°C	40
Operating frequency rated value	Hz	50 ... 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage rated value	V	600
Partial load for load monitoring	A	0.65
Teach range current	A	0.65 ... 20
Current measuring range	A	0 ... 22

Control circuit/ Control

Type of voltage		DC
Control supply voltage		
• at DC		
— rated value	V	18 ... 30
— Full-scale value for signal<0> recognition	V	5
Relative symmetrical tolerance of the supply voltage frequency	%	10
Control current		
• at DC rated value	mA	25
Response delay	s	0.1 ... 0.1

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
Operating voltage of auxiliary contacts		
• at DC	V	15 ... 24
Operating current of auxiliary contacts		
• at DC	mA	1 ... 50
Voltage drop at digital output at the clearance between open contacts for signal <1>	mV	1
Output current at digital output with signal <0> maximum	µA	200

Installation/ mounting/ dimensions





Mounting type		clip-on
Mounting type Side-by-side mounting		Yes

Width	mm	22.5
Height	mm	101.5
Depth	mm	67

Connections/Terminals

Type of electrical connection		screw-type terminals
<ul style="list-style-type: none"> • for auxiliary and control current circuit 		
Design of the thread of the connection screw of the auxiliary and control contacts		M3
Type of connectable conductor cross-sections		
<ul style="list-style-type: none"> • 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 • 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 (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	0.5 ... 2.5
	mm ²	0.5 ... 2.5
	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=3RF2920-0FA08>

Cax online generator

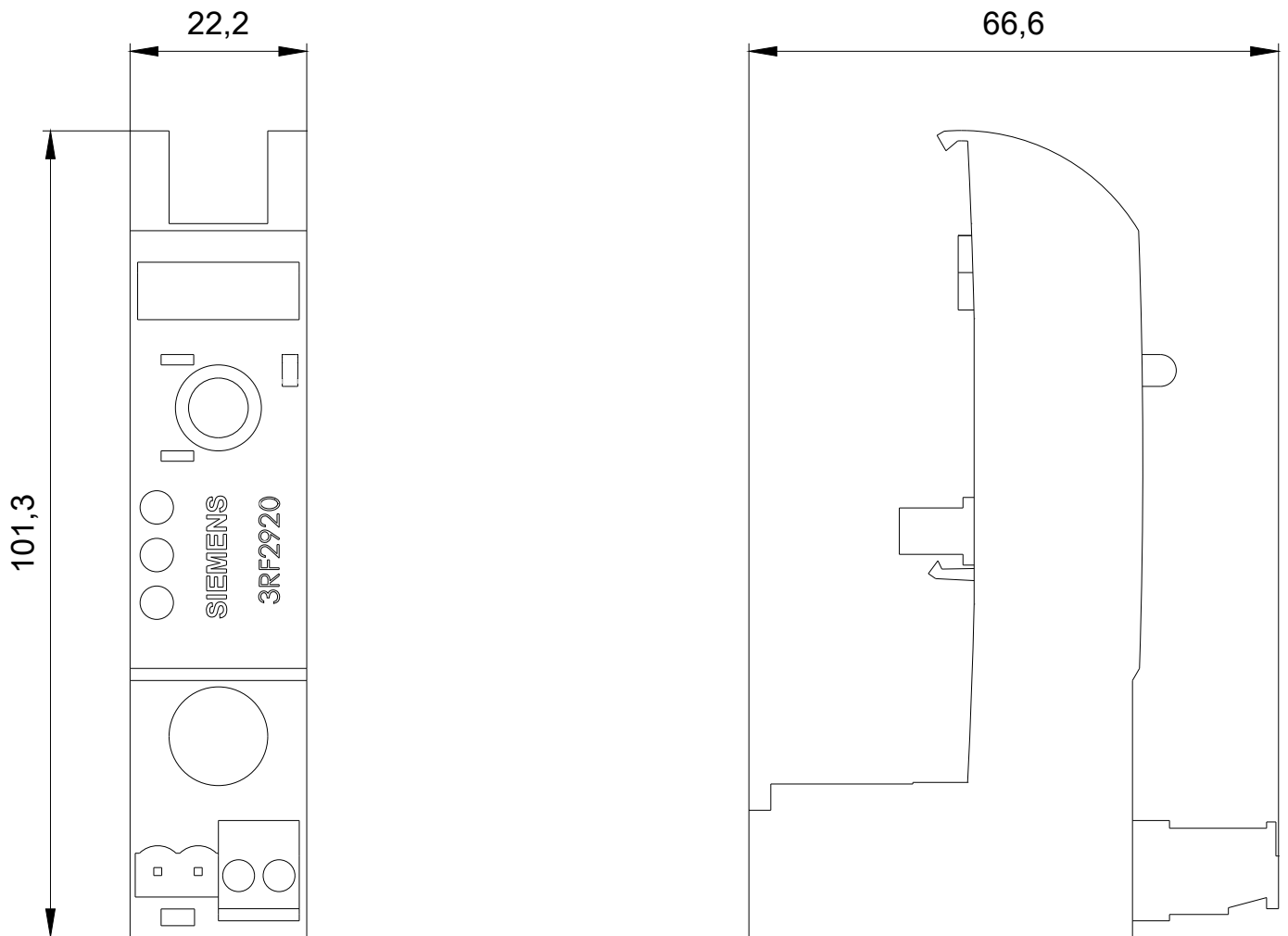
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2920-0FA08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2920-0FA08>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2920-0FA08&lang=en



last modified:

01/17/2018