



LOAD MONITORING BASE CURRENT RANGE 20A 40 DEG. C CONTROL VOLTAGE 24V DC WITH THE COVERING CAPS MOUNTED FOR SOLD-STATE RELAYS / CONTACTORS

General technical data:

product brand name		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 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
Current measuring range	A	0 ... 22

Control circuit/ Control:

Type of voltage		DC
Control supply voltage		
• for DC		
— Rated value	V	24 ... 24
— Full-scale value for signal<0> recognition	V	12
Relative symmetrical tolerance of the supply voltage frequency	%	10
Control current		
• for 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 the auxiliary contacts		
• for DC	V	15 ... 24
Operating current of the auxiliary contacts		
• for 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		
• 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 <ul style="list-style-type: none"> — with core end processing — without core end processing • for AWG conductors for auxiliary and control contacts 		<p>1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)</p> <p>1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)</p> <p>1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)</p> <p>1x (AWG 20 ... 12)</p>
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
 CSA	 UL		 C-TICK
		 EG-Konf.	Type Test Certificates/Test Report

other

[Environmental Confirmations](#)

Further information

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

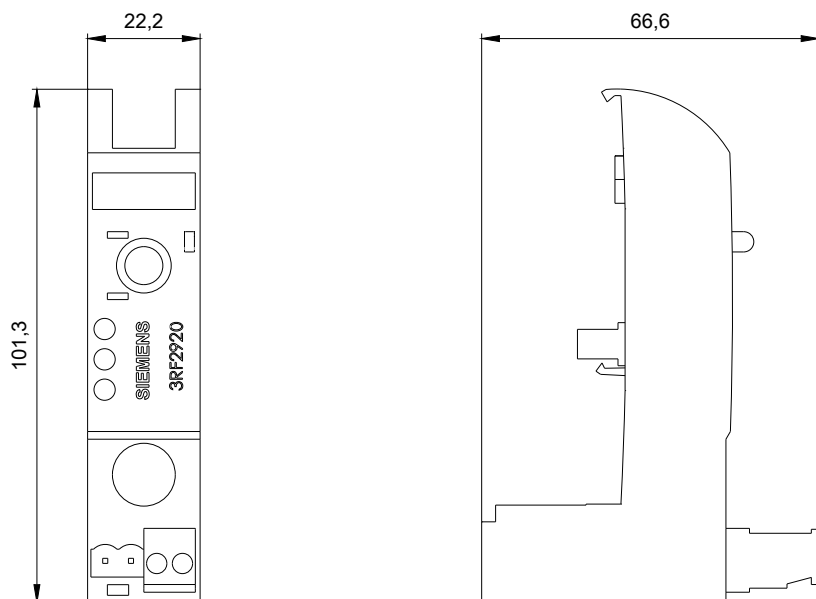
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

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

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29200FA080KH0>



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