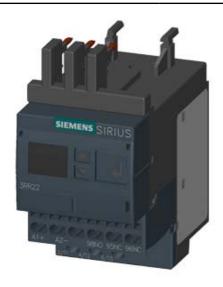
## **SIEMENS**

Data sheet 3RR2242-1FA30



MONITORING RELAY ATTACHABLE TO
CONTACTOR 3RT2. SIZE S0 STANDARD, DIGITAL
ADJUSTABLE APPARENT/ACTIVE CURRENT MONIT.
4 - 40A, 20-400 HZ, 3-PHASE SUPPLY 24 V AC/DC 1
CO CONTACT, 1 SEMICOND. FOR ALARM AND
WARNING MONITORING FOR CURRENT
OVERSHOOT/UNDERSHOOT PHASE FAILURE,
WIRE BREAK PHASE SEQUENCE FAULT CURRENT
BLOCKING CURRENT WARNING AND ALARM
THRESHOLDS WITH OR W/O ERROR LOG ONDELAY 0-99 S SPURIOUS PEAK SUPPR.0-30 S
BREAK AFTER FAULT 0-300 MIN SCREW
CONNECTION

General technical data:		
product brand name		SIRIUS
Product designation		multi-phase current monitoring
Design of the product		multi-phase current monitoring
Size of contactor can be combined company-specific		S0
Protection class IP		
• on the front		IP20
of the terminal		IP20
Insulation voltage for overvoltage category III	V	690
according to IEC 60664 with degree of pollution 3		
Rated value		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
during storage	°C	-40 +80
<ul><li>during operation</li></ul>	°C	-25 +60
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
EMI immunity acc. to IEC 60947-1		ambience A (industrial sector)
EMC emitted interference acc. to IEC 60947-1		ambience A (industrial sector)
Shock resistance		15g / 11 ms
Vibration resistance		10 55 Hz / 0.35 mm
Surge voltage resistance Rated value	kV	6
Operating apparent output Rated value	V·A	4
Operating power Rated value	W	2.5
Equipment marking acc. to DIN 40719 extended		К
according to IEC 204-2 acc. to IEC 750		

	K
	10 000 000
	100 000
_	+/-1 digit
s	0 99
s	0 30
S	0.2
	3
	3
	Yes
	No
	No
	No
	No
	Yes
	No
	No
	No
	Yes
	Yes
	Yes
	No
	Yes
_	
Α	4 40
Α	4 40
	2 5
Α	4
%	5
	AC
Α	4 40
	S S S

Adjustable switching hysteresis for measured current value	Α	0.1 8
Response time maximum	ms	200
Relative repeat accuracy	%	2
Temperature drift per °C	%/°C	0.1
Ampacity		
<ul> <li>for permanent overcurrent maximum permissible</li> </ul>	Α	40
<ul> <li>for overcurrent duration &lt; 1 s maximum permissible</li> </ul>	Α	800

Supply voltage:		
Type of voltage of the supply voltage		AC/DC
Supply voltage frequency 1	Hz	50 60
Supply voltage 1		
for DC Rated value	V	24
• with AC		
— at 50 Hz Rated value	V	24
— at 60 Hz Rated value	V	24
Buffering time in the event of power failure minimum	ms	10

Circuit principle of the output relay  Operating current at 17 V minimum  Number of outputs as contact-less semiconductor switching element for signaling function  Closed-circuit current / open-  mA  5  1	-circuit current
Number of outputs as contact-less semiconductor 1 switching element for signaling function	
switching element for signaling function	
instantaneous contact	
Ampacity of the semiconductor output	
• at DC-13 at 240 V mA 20	
• at AC-14 at 240 V at 50/60 Hz mA 20	
Residual current of the semiconductor output mA 0.035	
maximum	
Number of CO contacts	
• for auxiliary contacts	
Operating current of the auxiliary contacts	
• at AC-15	
— at 24 V A 3	
— at 230 V A 3	
— at 400 V A 3	
• at DC-13	
— at 24 V A 1	
— at 125 V A 0.2	
— at 250 V A 0.1	

3RR2242-1FA30

## Short-circuit:

O mm²)
mm²), 1x 10 mm²

— for main contacts

— for auxiliary contacts

2 x (16 ... 14), 2x (14 ... 8)

2x (20 ... 14)

• for auxiliary contacts

- solid

- finely stranded

- with core end processing

Tightening torque with screw-type terminals

1x (0.5 ... 4 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>)

1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>)

N·m 0.8 ... 1.2

Certificates/ approvals:

Certificate of suitability CE / UL / CSA

**General Product Approval** 

**EMC** 

Declaration of Conformity













**Test Certificates** 

**Shipping Approval** 

Type Test
Certificates/Test
Report

Special Test Certificate





other





GL

**Shipping Approval** 



LRS





Environmental Confirmations

Confirmation

UL/CSA ratings:

Contact rating of the auxiliary contacts acc. to UL B300 / R300

Safety related data:

Protection against electrical shock finger-safe

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

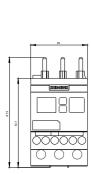
Cax online generator

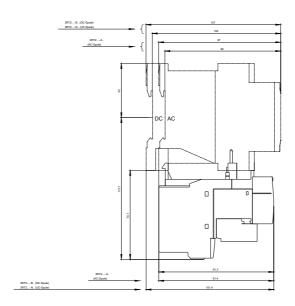
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR22421FA30

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

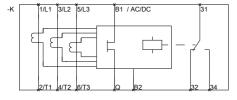
http://support.automation.siemens.com/WW/view/en/3RR22421FA30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RR22421FA30&lang=en





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**last modified:** 09.03.2015

ANTOINACEURBLE RELEASINTACTOR 3RT2