SIEMENS

Data sheet 3RR2243-1FA30



Figure similar

MONITORING RELAY ATTACHABLE TO
CONTACTOR 3RT2. SIZE S2 STANDARD, DIGITAL
ADJUSTABLE APPARENT/ACTIVE CURRENT MONIT.
8 - 80A, 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		S2
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	690
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
during storage	°C	-40 + 80
 during operation 	°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		10g / 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 according to IEC 204-2 acc. to IEC 750		К

	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	8 80
Α	8 80
	2 5
Α	8
%	5
	AC
Α	8 80
	S S S

Adjustable switching hysteresis for measured current value	Α	0.2 16
Response time maximum	ms	200
Relative repeat accuracy	%	2
Temperature drift per °C	%/°C	0.1
Ampacity		
 for permanent overcurrent maximum permissible 	Α	80
 for overcurrent duration < 1 s maximum permissible 	Α	1 600

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-	-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	

Inputs/ Outputs:

Short-circuit:

nort-circuit:		
stallation/ mounting/ dimensions:		
mounting position		any
Mounting type		direct mounting
Width	mm	55
Height	mm	99
Depth	mm	112
Required spacing with side-by-side mounting		
• forwards	mm	0
Backwards	mm	0
• upwards	mm	0
downwards	mm	10
• at the side	mm	0
Required spacing for grounded parts		
• forwards	mm	10
Backwards	mm	0
• upwards	mm	10
• downwards	mm	10
• at the side	mm	10
Required spacing for live parts		
• forwards	mm	10
Backwards	mm	0
• upwards	mm	10
• downwards	mm	10
• at the side	mm	10
Connections/ Terminals:		
Type of electrical connection		
for main current circuit		screw-type terminals
for auxiliary and control current circuit		screw-type terminals
Product function		
 removable terminal for main circuit 		No
 removable terminal for auxiliary and control circuit 		Yes
Type of connectable conductor cross-section		
• for main contacts		

— solid

- stranded

- for main contacts

— finely stranded

- with core end processing

2x (1 ... 35 mm²), 1x (1 ... 50 mm²)

2x (1 ... 35 mm²), 1x (1 ... 50 mm²)

2x (1 ... 25 mm²), 1x (1 ... 35 mm²)

— for auxiliary contacts		2x (20 14)
• for auxiliary contacts		
— solid		1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— finely stranded		
 — with core end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
Tightening torque with screw-type terminals	N·m	0.8 1.2

0 0 1	,,					
Certificates/ appr	ovals:					
Certificate of suita	ability			CE / UL / C	SA	
General Prod	uct Approval	Test	oth	er		
		Certificates				
	FMF	Type Test	C	onfirmation	Environmental	
(SB	LUI				Confirmations	
	LIIL	Report				
(SA)	EAC		C	onfirmation	Environmental Confirmations	

UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	B300 / R300
Safety related data:	
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

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

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

Industry Mall (Online ordering system)

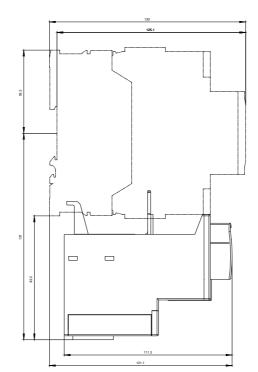
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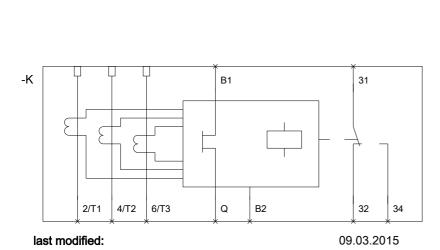
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR22431FA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RR22431FA30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RR22431FA30&lang=en





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