SIEMENS

Data sheet 3RR2243-1FW30



Monitoring relay, can be mounted to Contactor 3RT2, Size S2 standard, digitally adjustable Apparant/active current monitoring 8...80 A, 20...400 Hz, 3-phase Supply 24-240 V AC/DC 1 change-over contact, 1 semiconductor output for alarm and warning Monitoring for Current overshoot and undershoot Phase failure, Cable break Phase sequence Residual current Blocking current Warning and alarm thresholds with or without fault buffer ON delay 0-99 s Noise pulse suppression 0-30 s Pause after fault 0-300 min Screw connection system

Product brand name	SIRIUS
Product designation	Monitoring relays
Design of the product	digitally adjustable, 3-phase current monitoring
Product type designation	3RR2

General technical data					
Size of contactor can be combined company-specific	S2				
Operating apparent output rated value	4 V·A				
Insulation voltage					
 for overvoltage category III according to IEC 60664 					
 — with degree of pollution 3 rated value 	690 V				
Surge voltage resistance rated value	6 kV				
Protection class IP					
• on the front	IP20				
• of the terminal	IP00				
Shock resistance	10g / 11 ms				
Vibration resistance	10 55 Hz / 0.35 mm				
Mechanical service life (switching cycles)					
• typical	10 000 000				

Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
Relative repeat accuracy	2 %
Supply voltage	
Type of voltage of the supply voltage	AC/DC
Supply voltage 1 at AC	
● at 50 Hz	24 240 V
● at 60 Hz	24 240 V
Supply voltage 1 at DC	24 240 V
Supply voltage frequency	
• 1	50 60 Hz
Measuring circuit	AC
Type of current for monitoring	AC
Adjustable pick-up value current	8 80 A
• 1	
• 2	8 80 A
Adjustable response delay time	
when starting	0 99 s
with lower or upper limit violation	0 30 s
Adjustable switching hysteresis for measured current value	0.2 16 A
Accuracy of digital display	+/-1 digit
Precision	
Temperature drift per °C	0.1 %/°C
Communication/ Dratecal	
Communication/ Protocol Protocol is supported	
IO-Link protocol	No
Type of voltage supply via input/output link master	No
Auxiliary circuit	
Number of CO contacts	
• for auxiliary contacts	1
Operating current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	3 A
	3 A
• at 400 V	5 A
Operating current of auxiliary contacts at DC-13	1.0
● at 24 V	1 A

● at 125 V	0.2 A				
● at 250 V	0.1 A				
Contact rating of auxiliary contacts according to UL	B300 / R300				
Main circuit					
Operating power					
• rated value	2.5 W				
Outputs					
Current-carrying capacity of semiconductor output in	200 mA				
the SIO mode					
Operating current at 17 V minimum	5 mA				
Electromagnetic compatibility					
EMC emitted interference					
• acc. to IEC 60947-1	ambience A (industrial sector)				
EMI immunity					
● acc. to IEC 60947-1	ambience A (industrial sector)				
Safety related data					
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529				
Connections/ Terminals					
Product function					
 removable terminal for main circuit 	No				
 removable terminal for auxiliary and control circuit 	Yes				
Type of electrical connection					
for main current circuit	screw-type terminals				
 for auxiliary and control current circuit 	screw-type terminals				
Type of connectable conductor cross-sections					
• for main contacts					
— solid	2x (1 35 mm²), 1x (1 50 mm²)				
— stranded	2x (1 35 mm²), 1x (1 50 mm²)				
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)				
at AWG conductors for main contacts	2x (18 2), 1x (18 1)				
Connectable conductor cross-section for main					
contacts					
 single or multi-stranded 	1 50 mm²				
 finely stranded with core end processing 	1 35 mm²				
Type of connectable conductor cross-sections					
• 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)				
 at AWG conductors for auxiliary contacts 	2x (20 14)				

AWG number as coded connectable conductor cross section	
• for main contacts	18 1
Tightening torque	
 with screw-type terminals 	0.8 1.2 N·m

Installation/ mounting/ dimensions					
Mounting position	any				
Mounting type	direct mounting				
Height	99 mm				
Width	55 mm				
Depth	112 mm				
Required spacing					
with side-by-side mounting					
— forwards	0 mm				
— Backwards	0 mm				
— upwards	0 mm				
— downwards	10 mm				
— at the side	0 mm				
 for grounded parts 					
— forwards	10 mm				
— Backwards	0 mm				
— upwards	10 mm				
— at the side	10 mm				
— downwards	10 mm				
• for live parts					
— forwards	10 mm				
— Backwards	0 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 mm				

- A	-	en	1					
	A 1		т		I A T A	8 b d F		TO I
	 w_1	Tel II	ч	\mathbf{U}	I III L		WILLIAM I	

Installation altitude at height above sea level

• maximum 2 000 m

Certificates/ approvals

General Product Approval EMC Declaration of Conformity













Declaration of
Conformity

Test Certificates

Marine / Shipping

Miscellaneous

Special Test Certificate









Marine / Shipping

other





Confirmation

Further information

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

www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RR2243-1FW30

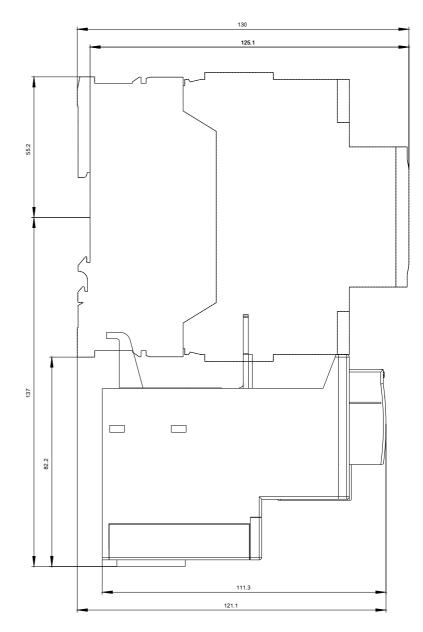
Cax online generator

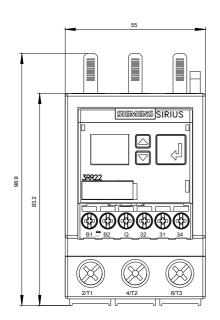
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR2243-1FW30

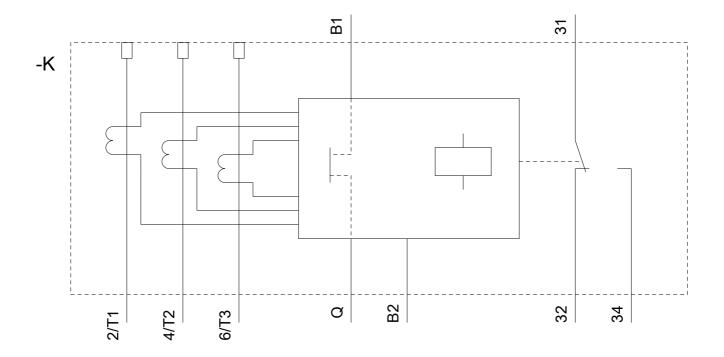
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RR2243-1FW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2243-1FW30&lang=en







last modified: 01/17/2020