



Mikro RX233 Overcurrent Relay User Guide

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Mikro RX233 Overcurrent Relay



Specifications

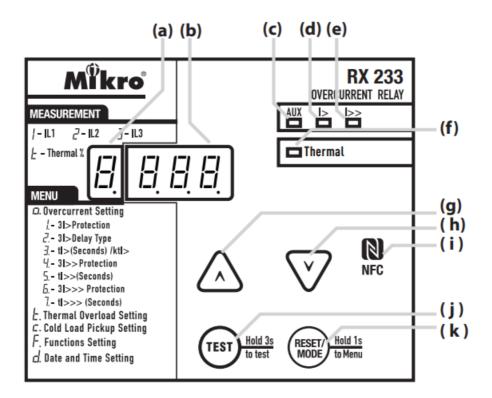
- Three-phase, three stages setting for phase overcurrent
- IDMT and definite time protection
- · Thermal overload protection
- Cold load pickup protection
- · Circuit breaker failure protection
- Selectable fundamental or true RMS
- Selectable 50 or 60 Hz frequency
- Programmable output contacts
- 30 fault, 30 pickup, and 120 event records with date & time stamp
- Built-in NFC for parameter reading and setting through mobile app
- Complies with IEC 60255 standard
- ANSI code: 50P, 51P, CLP, 50BF, 49RMS

FAQ

Q: How can I download the Mikro RX app for parameter reading and setting?

A: You can download the Mikro RX app by scanning the QR code or aligning your mobile phone's NFC antenna with the NFC logo on the relay front panel to access the App store.

PRODUCT OVERVIEW

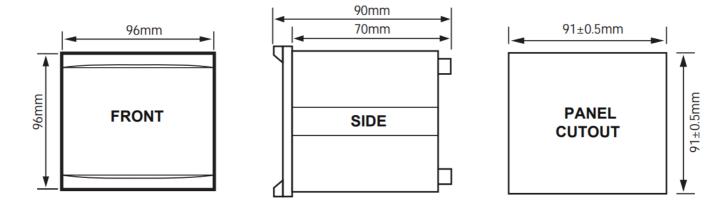


- · Function indication
- · Data indication
- Auxiliary power supply indicator
- Low-set start/trip status indicator
- · High-set start/trip status indicator
- Thermal Overload start/trip status indicator
- Up button
- Down button
- · NFC detection area
- Test button
- Reset/Mode button

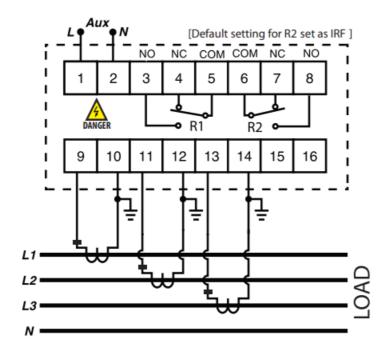
Features

- · Three-phase, three stages setting for phase overcurrent
- · IDMT and definite time
- · Thermal overload protection
- Cold load pickup protection
- · Circuit breaker failure protection
- Selectable fundamental or true RMS
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- · Programmable output contacts
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Case Dimensions



Typical Application Diagrams



NFC Communication

Relay provides NFC communication convenient for user to read parameter values or to change setting through Android phone with NFC feature. The Mikro RX app can be downloaded in the mobile with one of following Methods:

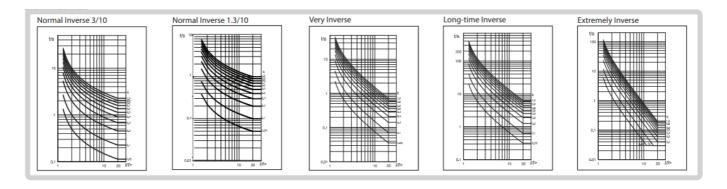
Make sure phone NFC function is turned on

Scan the QR code or align the mobile phone NFC antenna on the NFC logo at relay front panel. This will take you directly to App store.





IDMT Curve



Technical Data

•	Ratings	

- Frequency...... 50 or 60Hz
- Burden.....<0.3VA at In
- Thermal Withstand...... 4 x In Continuous

Auxiliary Supply

- Supply Frequency...... 50 or 60Hz
- VA Rating...... 3VA max

Accuracy

- Protection Thresholds..... ±3% or ±20mA
- Time Delay..... ±3% or ±40ms

Setting Ranges

(i)Overcurrent Setting

- ∘ Low-set time Multiplier ktl>..... 0.01 1.00
- Low-set Definite Time tl>............ 0.03 100s
- Delay Type...... DT, NI3/10, NI1.3/10, VI, LI, EI
- High-set Setting 3l>>..... OFF/0.5 100A (10% 2000%)
- ∘ High-set Definite Time tl>>...... 0.03 100s
- Highest-set Setting 3I>>>..... OFF/0.5 100A (10% 2000%)
- ∘ Highest-set Definite Time tl>>>... 0.03 100s

(ii)Thermal Overload Setting

- Low-set Setting I0>...... OFF/0.5A 10.0A(10% 200%)
- ∘ Low-set time Multiplier ktl 0>...... 1.00 1.50
- Trip...... 50 to 200%
- 。 Alarm...... 50 to 200%

Output Contacts

- Rated Voltage......250VAC
- Continuous Carry...... 5A(Cos = 1.0)

Expected Mechanical Life...... 5 x 106 operations

Environmental Conditions

• Temperature.....-10°C to 55°C

Mechanical

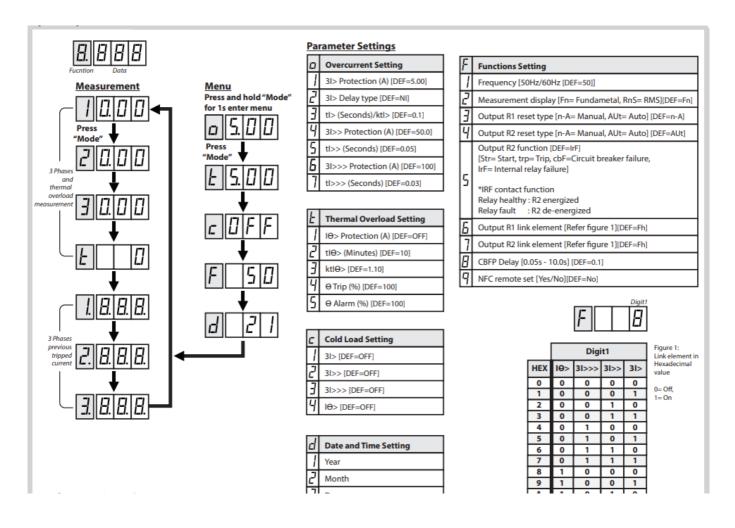
Mounting...... Panel mounting

• Dimension (mm) 96(w) x 96(h) x 90(d)

• Enclosure Protection...... IP54 at the panel

IP20 at the body

System Operation



Push Button Operation

Trip Test	Press and hold "TEST" button for 3.5 seconds			
Trip Reset	Press "RESET" button			
Scroll Display	Press "MODE" button			
Enter Menu Mode	Press and hold "MODE" button for 1second			
Set/Save Setting	Press "UP" and "DOWN" button simultaneously			
Adjust Setting	Press "UP" or "DOWN" button			
Auto Scroll Reading	II Press and hold "UP" and "DOWN" button simultaneously for 2 seconds on Measurement mode			
Clear Thermal Press and hold "UP" and "DOWN" button simultaneously for 1.5 seconds on Thermal p				
Display Off Mode	Press "RESET" button for 10 seconds to toggle display off mode. The display will switch off after 6 minutes if no key is pressed.			

Ħ	Day
4	Hour
5	Minute
6	Second

1	DE	F=	De	fault	se	tting	7

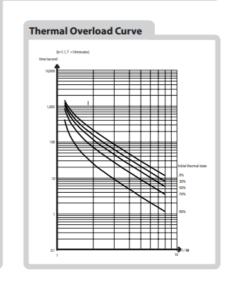
A	1	0	1	0
В	1	0	1	1
С	1	1	0	0
D	1	1	0	1
E	1	1	1	0
F	1	1	1	1

	Digi	it1	
User's setting			
User's setting hexadecimal value			

^{*} Not applicable when output R2 function set as cbF or IrF

LED Indicator

LED)	Status		
AUX	<u> ></u>	l>>	Thermal	Status		
0	0	0	0	No Auxiliary power suppply		
1	0	0	0	Normal condition, no tripping		
1	1	0	X	Low-set pickup		
1	0	1	X	High-set pickup		
1	В	0	X	Low-set tripped		
1	Х	В	Х	High-set tripped		
1	Х	Χ	1	Thermal overload pickup		
1	X	Х	В	Thermal overload tripped		
1 = ON 0 = OFF		O = OFF	B = Blinking X = don't care			



Documents / Resources



Mikro RX233 Overcurrent Relay [pdf] User Guide RX233 Overcurrent Relay, RX233, Overcurrent Relay, Relay

References

• User Manual

Manuals+, Privacy Policy

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