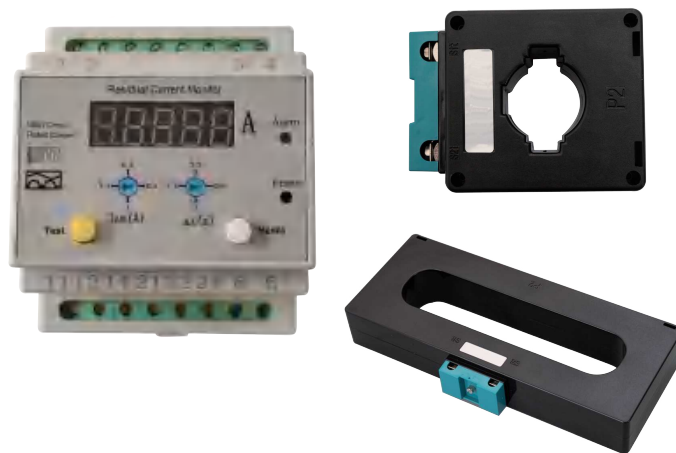


# RCMX-100

## Residual Current Monitor



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# RCMX-100

## Residual Current Monitor

The RCMX-100 residual current monitor is matched with CT and KCT precision residual current transformers, and is used to accurately measure the residual current value to the ground and judge the fault branch in the AC grounded power grid, and can transmit the residual current value to the host computer through the RS485 communication interface. One RCMX-100 residual current monitor supports 1 channel of residual current monitoring. The product has the characteristics of strong anti-interference ability, high detection accuracy, and flexible networking.



## RCMX-100 Features

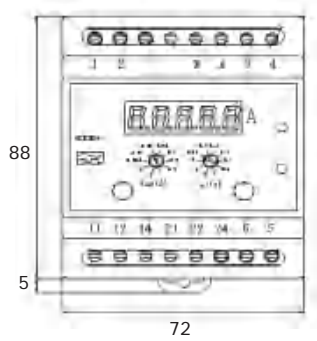
- Type A residual current operated relay, separated from the transformer.
- Requires auxiliary power supply, and cannot automatically operate when the auxiliary power supply fails.
- Residual current can be set in multiple gears; the operating time can be set in multiple gears.
- With manual test and reset buttons.
- 35mm rail installation.

## RCMX-100 Technical Data

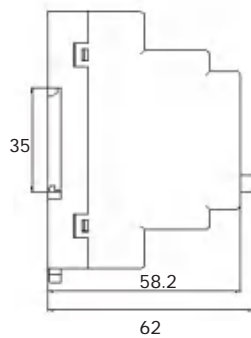
Item		Value
Implementation Standards		GB23387-2016
Type	Residual current type	Type A residual current operated relay
	How to work	When $85\%U_{sn} > U_s \geq 85V$ , it cannot automatically operate, but when a residual current fault occurs, it can operate as expected; When $U_s < 85V$ , the relay returns to the initial state and does not work.
	Construction	Split type, CT/KCT transformer + RCMX-100 monitor
	Main circuit wiring method	Through
	Automatic reset	No automatic reset after residual current fault
Main circuit rated voltage		AC400(380)V; AC230(220)V, (customizable)
Main circuit rated current		AC50 ~ 2000A
Rated short-time withstand current		10I <sub>n</sub>
Rated residual operating current		0.03 ~ 30A, 4 or 10 levels of dial adjustable (I Δn)
Rated residual non-operating current		50% I Δn
Limit non-driving time		0 ~ 5.0s, 4 or 10 levels of dial adjustable
Impulse withstand voltage		Between neutral line and phase line; 6KV
Output contact type and capacity		1C contact, Resistive load capacity: 5A/250V AC, 5A/30V DC

Indicator lights	Power: Green LED; Alarm: Red LED
Self-test	Manual test button
Reset method	Manual reset button
Power frequency withstand voltage	Between terminal and shell: AC2000V/50Hz,1min; Output circuit disconnection between contacts: AC1500V/50Hz, 1min;
Working temperature	-20°C~+55°C
Storage temperature	-20°C~+70°C
Protection level	IP20
Power consumption	≤5VA
Installation	Transformer: punching, Current monitor: Standard rail installation
Dimension	72x88x62mm
Weight	350g

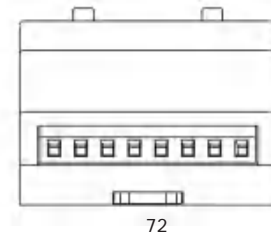
## Installation Dimensions (Unit: mm)



Front

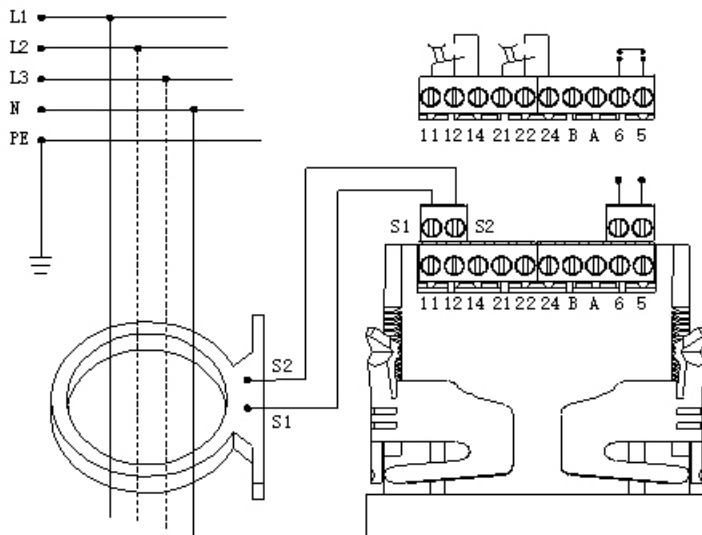


Side




Vertical

## Wiring Diagram



## Matching Transformer Models

Model (Round)	Main circuit current(A)	Bore (mm)	Ratio
HSCT1-100	0~100A	32	1000:1
HSCT1-160	0~160A	51	1000:1
HSCT1-250	0~250A	73	1000:1
HSCT1-400	0~400A	93	1000:1
HSCT1-800	0~800A	114	1000:1



Model (Rectangle)	Main circuit current(A)	Bore (mm)	Ratio
HSCT2-100	0~100A	42*11.5	1000:1
HSCT2-160	0~160A	122*30	1000:1
HSCT2-250	0~250A	150*35	1000:1
HSCT2-400	0~400A	192*40	1000:1
HSCT2-630	0~630A	220*50	1000:1
HSCT2-1000	0~1000A	300*60	1000:1
HSCT2-1600	0~1600A	400*120	1000:1
HSCT2-2000	0~2000A	500*160	1000:1

