

Electric/fire
Safety

Residual
Current
Monitoring

Enhanced Electric Safety Powered by Residual Current Monitoring/Protection

iRCM6801 and iRCM6801M Residual Current Protection Relay



infinode.

The iRCM6801/iRCM6801M residual current operated monitoring device is designed for use alongside AC contactors or circuit breakers to offer electrical fault protection in low voltage power supply systems that are earthed, such as TT, and the 'S' part of TN-S and TN-C-S systems.

By employing this device, it significantly mitigates the potential for electric fires and accidents involving electrical apparatus. Additionally, it serves as a safeguard for individuals by minimizing the risk of indirect electric shocks.

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Safety

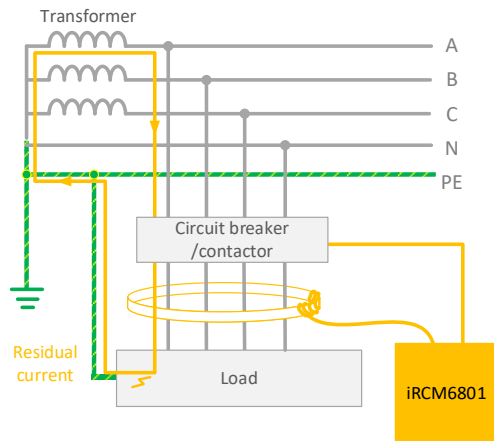
Residual
Current
Monitoring

Features

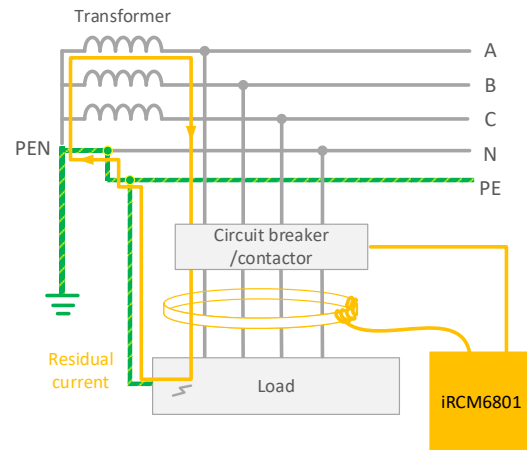
- **Continuous Residual current monitoring**
 - Residual current displayed on the on-device display.
 - Residual current value readable via RS485 communication for supervisory system
 - Type-A residual current monitoring for both AC and pulsed DC residual current components.
 - Alarming (on-device indication) for both residual current pre-alarm and residual current alarm.
- **Protection Relay**
 - Relay outputs can be used with a circuit breaker, contactor, or indicator to provide protection and indication of both residual current pre-alarm* and residual current alarm.
 - Configurable delay of relay outputs.
- **Operation**
 - Configurable residual current thresholds for both pre-alarm and alarm.
 - Both visual and sound* indication.
 - Self-detection of residual current transformer.
 - Self-test function to ensure protection is functional.
- **M2M Interface**
 - RS485 interface *
- **AI-enhancement** **NEW**
 - Considering using our **FOURIER EMS** to enhance the system performance via AI based residual current data analysis.

**iRCM6801 only*

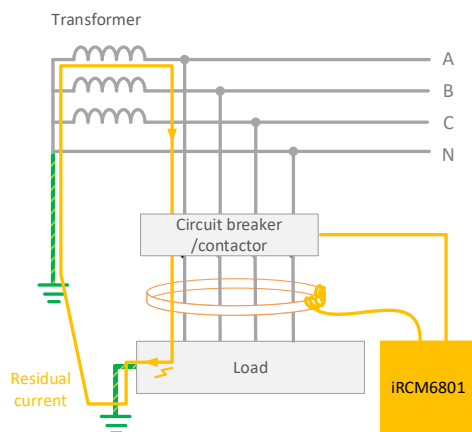
Typical System Topology



TN-S SYSTEM



TN-C-S SYSTEM



TT SYSTEM

Model Selector

Functions		iRCM6801	iRCM6801M
Measurement	Type-A residual current	■	■
Pre-alarm	Configurable threshold	■	■
	Configurable delay	■	■
	On-device indication	■	■
	Relay output	■	
Alarm	Configurable threshold	■	■
	Configurable delay	■	■
	On-device indication	■	■
	Relay output	■	■
Digital input for remote supervisory control		■	
Communication	RS485	■	
Self-test function		■	■
Current transformer self-detection		■	■
Mounting		DIN-rail mounted	Panel mounted