

Three-Phase Automatic Reclosing Residual Current Circuit Breaker



This is a three-phase automatic reclosing circuit breaker with residual current leakage protection. It provides advanced safety and control for electrical circuits.

ADDITIONAL IMAGES



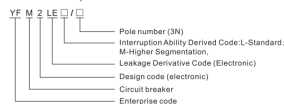
Overview

1. General

YFM2LE series residual current protection circuit breaker (hereinafter referred to as "circuit breaker") is a leakage circuit breaker with overload, short circuit, overvoltage, undervoltage, power side zero-breaking, power side power-off tripping, leakage, phase-absence, sudden change (special wave), reclosure and other tripping functions, which is developed by our company. It is suitable for three-phase, four-wire neutral line directly grounded low voltage power grid, and it is used to provide protection for equipment and personal electric shock hazards, and also for grounding faults of lines or electrical equipment.

References for this technical specification are as follows:
 GB14048.2-2008 Low Voltage Switchgear and Control Equipment
 GB/T22271-2008 Electronic Controller for Low Voltage Circuit Breakers
 GB/T22387-2008 Residual Current Actuated Relay
 GB/Z 6829-2008 General requirements for residual current operated protectors

2. Model description



Series overview and core functional capabilities.

Advanced Protective Circuit Breaker

This three-phase automatic reclosing residual current circuit breaker is engineered to provide comprehensive electrical protection in industrial and commercial power grids. It integrates advanced safety features including overload, short-circuit, overvoltage, and undervoltage protection with intelligent reclosing capabilities to minimize operational downtime. Designed for reliability, it serves as an essential component for safeguarding electrical equipment and preventing electric shock hazards.

Technical Specifications

Residual Operating Current Settings

- 30
- 50
- 100
- 300

Rated Voltage	400 V
Rated Current Range	40A, 63A, 80A, 100A, 125A
Rated Short Circuit Breaking Capacity	10 kA
Mechanical Operating Life	10000 cycles

Protective Functions

3. Classification of functional models

Item	Function description	Type classification			
		Outgoing	Ingoing	Ingoing	Common
Display mode	Digital Tube Display + LED Indicator	●	●	●	●
Operation mode	LCD + LED Indicator	●	●	●	●
Residual current protection function	Keyboard parameter setting	●	●	●	●
	Residual current measurement	●	●	●	●
	Residual current primary reclosure	●	●	●	●
	Residual current tracking	●	●	●	●
Current protection function	Automatic tracking of residual current	●	●	●	●
	Long delay overload protection	●	●	●	●
	Short-circuit and short-delay protection	●	●	●	●
Voltage protection function	Short-Circuit Inrush Protection	●	●	●	●
	Voltage measurement	●	●	●	●
	Overvoltage and undervoltage protection	●	●	●	●
	Phase-sequence protection (A, B, C phase)	●	●	●	●
External DI function	Input side power of outgoing circuit breaker and lock-out protection	●	●	●	●
	Two-way Programmable Reserve DI	●	●	●	●
	External DI function	●	●	●	●
	External DI function	●	●	●	●
Communication function	10 Fault Recording Function	●	●	●	●
	Communication with PC (Hardware)	-	○	-	-
Clock function	Communication with PC (Hardware)	-	○	-	-
	Real-time queries, settings	●	●	●	●

Description: Symbol ● indicates the function (default configuration function of controller). Symbol ○ indicates that this function is optional.

Comparison of feature sets across different model types.

Key Protection Features

Overload • Short-Circuit • Leakage Current • Overvoltage • Undervoltage • Phase-Absence • Automatic Reclosing

Reclosing Settings

3 times

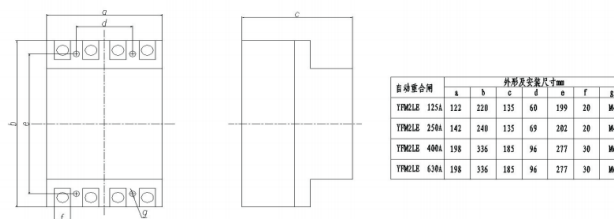
Max Reclosing Attempts

0.5 s

Min Reclosing Time

Dimensions and Mounting

5. Shape and installation dimensions



Technical layout and mounting dimensions for standard units.

Installation Dimensions

Model	Width (mm)	Height (mm)	Depth (mm)
125A	122	220	135
250A	142	240	135
400A	198	336	185
630A	198	336	185