

Residual Current Circuit Breaker

This residual current circuit breaker is designed for AC 50/60Hz lines with voltage 240V (2 pole)/415V (4 pole) and rated current up to 100A. It rapidly cuts off power upon detecting human electricity shock or leakage current exceeding the prescribed value, protecting human safety and preventing accidents.



ADDITIONAL IMAGES



Overview

KNL1 Series Residual Current Circuit Breaker

The KNL1 series is a high-performance residual current circuit breaker designed to safeguard electrical systems against earth leakage faults. Suitable for AC 50/60Hz lines, it provides rapid power disconnection to prevent electric shock and accidents in industrial, commercial, and residential environments. This device is engineered for reliability, complying with international standards including GB 16916.1 and IEC/EN 61008.1.

Electrical Ratings

Rated Current

- 63
- 80
- 100

Rated Working Voltage: 240V (2 Pole) / 415V (4 Pole)

Rated Frequency: 50/60Hz

Performance Metrics

Key Performance Indicators

1500 A

Making/Breaking Capacity

3000 A

Short-Circuit Current

10000 cycles

Mechanical Life

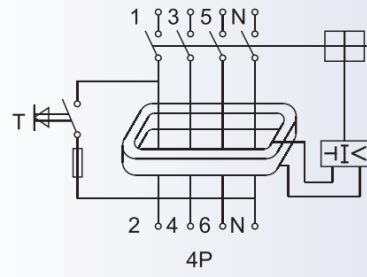
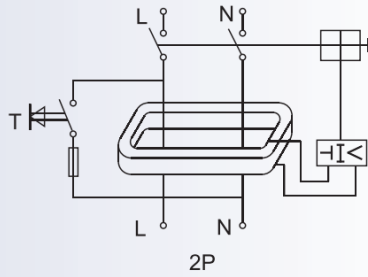
4000 cycles

Electrical Life

Sensitivity Types: A Type, AC Type

Max Operating Time: d0.3 (at In), d0.04s (at 5In)

Technical Specifications



Schematic representation of the zero-sequence current transformer and electromagnetic tripping mechanism.

Rated Residual Operating Current

- 0.03
- 0.1
- 0.3
- 0.5

Rated Residual Non-Operating Current

- 0.015
- 0.05
- 0.15
- 0.25

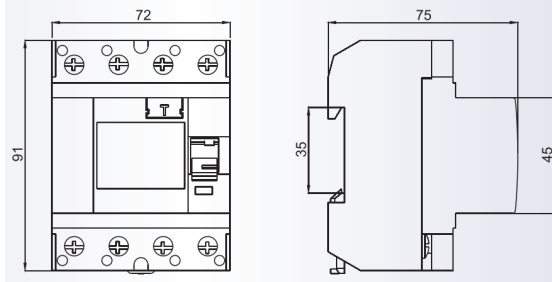
Pole Number

2P • 4P

Standards Compliance

GB 16916.1, IEC/EN 61008.1

Dimensions



Dimensional drawing illustrating the height, width, and depth of the KNL1 series unit.

Dimensions Table

Dimension	Value
Height	91
Width	72
Depth	75