

Residual Current Circuit Breaker 1kA

This device controls electrical circuits and protects people against indirect and direct contacts. It protects installations from fire hazards due to insulation faults, and it is suitable for single-phase and three-phase applications.



Product Overview

Residual Current Circuit Breaker

This residual current circuit breaker is designed for robust protection in housing, commercial, and industrial electrical installations. It effectively controls electric circuits while providing crucial safety against indirect contacts and additional protection against direct contacts. Furthermore, it safeguards installations against fire hazards caused by insulation faults, supporting both single-phase and three-phase applications.

Electrical Ratings

Rated Current (In)	16A to 100A (Model dependent)
Rated Operational Voltage (Ue)	AC 230V (2P) / AC 400V (4P)
Rated Insulation Voltage (Ui)	AC 400V
Rated Impulse Withstand Voltage (Uimp)	4 kV

Performance Metrics

Rated Residual Making & Breaking Capacity (Ith)

1000 A

Residual Capacity

3000 A

Conditional Short-Circuit

Service Life

Type	Cycles
Mechanical Life	4000
Electrical Life	2000

Tripping Time	<0.1s
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Installation & Environment

Protection Degree

IP20

Mounting Type	DIN rail embedded (TH35-7.5)
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Ambient Operating Temperature	-5°C to 40°C
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Terminal Torque	2.5 N·m
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Conductor Requirements

Recommended Cross-Sectional Area

Rated Current (In)	Area (mm ²)
16A	2.5
25A	4
32A	6
40A	10
50-63A	16
80A	25
100A	35

Compliance

Certifications & Standards

GB/T 16916.1, CCC