

Residual Current Operated Circuit Breaker

This residual current operated circuit breaker combines residual current device and miniature circuit breaker functions. It protects against overload, short-circuit, and earth leakage faults by quickly disconnecting the circuit upon fault detection.



ADDITIONAL IMAGES



Overview

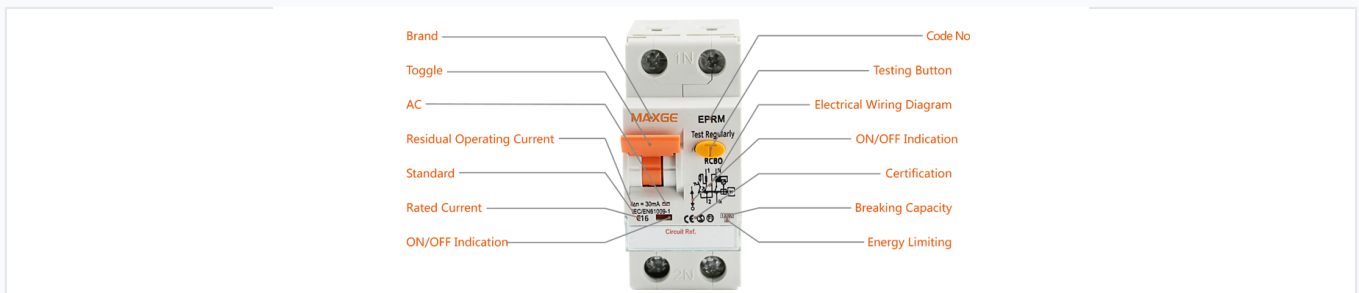


Diagram illustrating key operational features including the test button and wiring configuration.

Comprehensive Circuit Protection

This Residual Current Operated Circuit Breaker (RCBO) provides robust protection against overcurrent, short circuits, and earth leakage faults. By combining the functions of a residual current device and a miniature circuit breaker in a single, compact unit, it ensures rapid disconnection during fault conditions to prevent electrical shock and reduce fire risks. Engineered for reliability and ease of use, this device is suitable for a wide range of residential, commercial, and industrial electrical systems.

Technical Specifications

Standard	EN/IEC61009-1	Characteristic	B.C Curve
Breaking capacity	6KA,10KA	Electrical endurance	4000
Number of poles	1P+N(1module)	Mechanical endurance	10000
Rated current In	6,10,16,20,25,32,40A	Ambient temperature (°C)	-25°C~+45°C , Max 95%humidity
Rated voltage	240VAC	Connection terminal	Flexible conductor 16mm ² Rigid conductor 25mm ²
Rated Tripping Current	10,30,100,300mA	Type of terminal	Lug type and Pin type
Residual current off time	≤0.1s	Width	25mm

Summary of technical performance metrics and environmental tolerances.

Electrical Ratings

240 VAC

Rated Voltage

30 mA

Rated Tripping Current

6 kA

Breaking Capacity

Device Endurance

- Electrical Endurance: 4000 cycles
- Mechanical Endurance: 10000 cycles

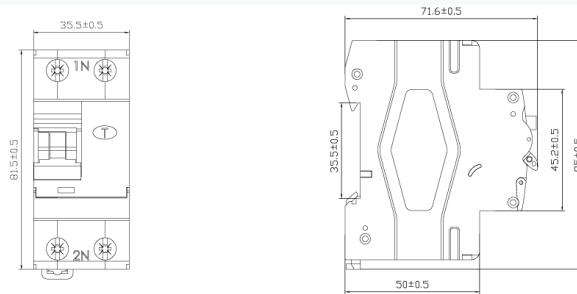
Operating Conditions

Parameter	Value
Temperature Range	-25°C to +45°C
Max Humidity	95%

Standards Compliance

EN/IEC 61009-1, CE

Dimensions & Installation



Detailed dimensional specifications for installation planning.

Physical Dimensions

Dimension	Measurement
Height	81.5 mm
Width	35.5 mm
Depth	71.6 mm

Terminal Compatibility

- Flexible Conductor: up to 16mm²
- Rigid Conductor: up to 25mm²
- Terminal Types: Lug and Pin