

RIVO MULTITRADE OPTICAL SYSTEMS

Transparent leakage current switch in the distribution box



Overview

Automatically trips to cut off faulty circuits when AC circuit leakage, overload or short circuit is detected.

Key Takeaways

A transparent leakage current switch, or residual current circuit breaker (RCCB), protects against electric shock and leakage while allowing visual monitoring of its internal mechanism. Function and Purpose

A transparent leakage current switch is designed to detect leakage currents in electrical circuits and quickly disconnect power to prevent electric shock or equipment damage. It combines residual current protection with overload and short-circuit protection, making it suitable for both domestic and industrial distribution boxes. When the leakage current exceeds a specified threshold (typically 50mA-100mA), the switch trips immediately, ensuring safety for personnel and electrical devices.

Transparent Design



The transparent casing allows users to visually inspect the internal components and operational status without opening the distribution box. This feature helps in quickly identifying malfunctions, monitoring the switch's mechanical operation, and maintaining cleanliness, as dust accumulation can be easily spotted and wiped off . Transparent models are often made from high-quality PC material, which is durable, impact-resistant, and UV-stable .

Specifications

Transparent leakage current switches come in various configurations:

- Rated voltage: up to 400V AC, 50/60Hz
- Rated current: 6A to 125A depending on model
- Phases: single-phase or three-phase options available, including 200A, 250A, and 630A for larger installations
- Protection grade: some models feature IP67 waterproof and dustproof ratings, suitable for harsh environments

Installation and Applications

These switches are easy to install in standard distribution boxes and are compatible with various electrical systems. They are ideal for:

- Household circuits to protect family members from electric shock
- Commercial and industrial lighting systems
- Equipment with infrequent switching needs Some models also include waterproof transparent window covers for outdoor or industrial use, providing additional protection against moisture, dust, and corrosion while maintaining visibility of the switch status .

Advantages

- Enhanced safety: immediate disconnection during leakage or overload
 - Visual monitoring: transparent design allows real-time inspection
 - Durability: resistant to impact, UV, and temperature fluctuations
 - Versatility: available in multiple current ratings and phase configurations
 - Ease of maintenance: simple cleaning and inspection without disassembly
- In summary, a transparent leakage current switch in a distribution box combines safety, convenience, and durability, making it a practical choice for both residential and industrial electrical installations .

Article Content

Transparent Residual Current Leak Circuit Breaker, elcb rcbo Switch ...

DZ47LE-63 is a circuit breaker with leakage protection for domestic and industrial use. When it is detected that the

15MA Transparent Shell Leakage Protector Circuit Breaker 220V

Automatically trips to cut off faulty circuits when AC circuit leakage, overload or short circuit is detected. Adapts to household,

Transparent Plastic Shell Moulded Case Circuit Breaker 250a/4p

Transparent Plastic Shell Moulded Case Circuit Breaker 250A/4P Leakage Protection Switch

IP67 Transparent Protective Window Cover Distribution Box Switch ...

IP67 Transparent Protective Window Cover Distribution Box Switch Waterproof See-Through Window PC Material, Find Details and

Merlin Gerin Single-Phase Meter Set with Transparent Box

This set includes a single-phase 220V meter, a 2P circuit breaker, and a leakage switch, all housed in a transparent enclosure that

IP67 Waterproof Transparent Protection Window Cover

Transparent protective window cover, waterproof, dustproof and corrosion-resistant, IP67 protection grade,

IP67 Circuit Breaker Transparent Waterproof Box Window Switch ...

Buy IP67 Circuit Breaker Transparent Waterproof Box Window Switch Transparent Protective Window Cover Distribution Box

Leakage current protection switches | Sigma Elektrik

Learn about the features and benefits of leakage current protection switches for increased safety and

Transparent Contact Protection Window Hood Industrial

Transparent Cover Design: Allows easy visual inspection of circuit breaker status without opening the box.

Parameters of leakage current switch in primary distribution box

The leakage protection switch is suitable for the circuits of AC 50Hz, rated voltage of 230V ~ 400V, rated current of 63A, mainly

ELCB Explained: How It Protects Electrical Systems

An earth leakage circuit breaker (ELCB), also known as an earth leakage switch or earth leakage protector, is an

Leakage Protection Switch

The leakage protection switch with over-voltage protection can protect the high voltage caused by grid

Circuit Breaker Distribution Box Electrical, Outdoor

Circuit Breaker Distribution Box Electrical, Outdoor Waterproof 5 Hole Distribution Box Cover Transparent

Low Level Leakage Measurements on Switches and Multiplexers

Off Leakage is measured at both the Source and Drain On Leakage This occurs when the switch is enabled, & is a measure of the

Steel Circuit Breaker Box Distribution Protection Box, Leakage Switch ...

The interior is equipped with circuit breaker guide rails and expansion nails, which can easily fix and install electrical equipment;

Leakage Current Measurement Basics | Fluke

Measurement of leakage current to ground When the load is connected (switched on), the leakage current measured includes

WORLD WIDE WEB JOURNAL Home

O'Reilly & Associates, Inc. 103A Morris St. Sebastopol, CA United States

Compliance West LCB-6

Compliance West LCB-6 - Leakage Current Box Config 6, Compliance to IEC 61010-1 Fig A.4

How To Solve Leakage Current? | Causes, Detection, and Solutions

How To Solve Leakage Current? Learn causes, detection methods, solutions, and the importance of regular maintenance to prevent

Earth Leakage Circuit Breaker Working Principle

An Earth Leakage Circuit Breaker (ELCB) helps protect people and equipment from electrical shocks. It detects and

uxcell IP67 ABS Transparent Cover Power Distribution Protection Box

Product Description Description: Made of plastic material, this distribution box is durable and sturdy. This distribution box is designed

Circuit Breaker Transparent Waterproof Box Window Distribution Box ...

Universal fit for switch accessories Designed for use with various switches and control systems, this kl5-00 model distribution box is

Leakage protector

The leakage protector has high sensitivity and rapid action in response to electric shock and leakage protection, which

Working Principle of Earth Leakage Circuit Breaker (ELCB) and ...

Earth Leakage Circuit Breaker (ELCB) The operation of an earth leakage circuit breaker (or shorten ELCB) is based on

Parameters of leakage current switch in primary distribution box

Under normal operating conditions, the current value of the outgoing current from the phase conductor in your network should be the

2-Way Distribution Protection Box, IP66 Waterproof Transparent

About this item Transparent Cover: This 2-way electric panel DIN distribution box provides safety protection for your wall circuit, the

MAKERELE 4 Way IP66 Waterproof Outdoor Circuit Breaker Distribution Box ...

The Outdoor Breaker Box Distribution Protection Box is a high-quality and durable option for safeguarding your electrical equipment

IP67 Transparent Window Cover for Distribution Box

IP67 waterproof transparent protection window cover for distribution box, dust-proof, corrosion-proof, made of PC, model W80,

Plastic Transparent Cover Power Distribution Box for Circuit ...

MULTIFUNCTIONAL: This distribution box is designed for 3-4 ways circuit breaker, can be widely used. TRANSPARENT COVER:

IP67 Waterproof Circuit Breaker Window Cover PC

IP67 Circuit Breaker Transparent Waterproof Box Window Switch Transparent Protective Window Cover Distribution Box Window

ELCB Explained: How It Protects Electrical Systems

An earth leakage circuit breaker (ELCB), also known as an earth leakage switch or earth leakage protector, is an

Leakage Protection Switch

The leakage protection switch with over-voltage protection can protect the high voltage caused by grid

Circuit Breaker Distribution Box Electrical, Outdoor

Circuit Breaker Distribution Box Electrical, Outdoor Waterproof 5 Hole Distribution Box Cover Transparent

Low Level Leakage Measurements on Switches and Multiplexers

Off Leakage is measured at both the Source and Drain On Leakage This occurs when the switch is enabled, & is a measure of the

Steel Circuit Breaker Box Distribution Protection Box, Leakage Switch ...

The interior is equipped with circuit breaker guide rails and expansion nails, which can easily fix and install electrical equipment;

Leakage Current Measurement Basics | Fluke

Measurement of leakage current to ground When the load is connected (switched on), the leakage current measured includes

Leakage Current Box

LEAKAGE CURRENT Designed to provide a fast, safe and reliable method of measuring unweighted touch current, touch current

IP65 ABS Transparent Cover Electrical Box, 5 Way Waterproof

5 Way IP65 ABS Transparent Cover Electrical Box, Waterproof Distribution Protection Box for Circuit Breaker, ABS

Earth-leakage circuit breaker

An earth-leakage circuit breaker (ELCB) is a safety device used in electrical installations to prevent shock. It consists of either a

Leakage protection switch

Current-type leakage protectors use a part of the zero-sequence current in the circuit (usually called residual current)

WORLD WIDE WEB JOURNAL Home

O'Reilly & Associates, Inc. 103A Morris St. Sebastopol, CA United States

Compliance West LCB-6

Compliance West LCB-6 - Leakage Current Box Config 6, Compliance to IEC 61010-1 Fig A.4

How To Solve Leakage Current? | Causes, Detection, and Solutions

How To Solve Leakage Current? Learn causes, detection methods, solutions, and the importance of regular maintenance to prevent

Earth Leakage Circuit Breaker Working Principle

An Earth Leakage Circuit Breaker (ELCB) helps protect people and equipment from electrical shocks. It detects and

Transparent Residual Current Leak Circuit Breaker, elcb rcbo Switch ...

DZ47LE-63 is a circuit breaker with leakage protection for domestic and industrial use. When it is detected that the

15MA Transparent Shell Leakage Protector Circuit Breaker 220V

Automatically trips to cut off faulty circuits when AC circuit leakage, overload or short circuit is detected. Adapts to household,

Transparent Plastic Shell Moulded Case Circuit Breaker 250a/4p

Transparent Plastic Shell Moulded Case Circuit Breaker 250A/4P Leakage Protection Switch

IP67 Transparent Protective Window Cover Distribution Box Switch ...

IP67 Transparent Protective Window Cover Distribution Box Switch Waterproof See-Through Window PC Material, Find Details and

Merlin Gerin Single-Phase Meter Set with Transparent Box

This set includes a single-phase 220V meter, a 2P circuit breaker, and a leakage switch, all housed in a transparent enclosure that

IP67 Waterproof Transparent Protection Window Cover

Transparent protective window cover, waterproof, dustproof and corrosion-resistant, IP67 protection grade,

IP67 Circuit Breaker Transparent Waterproof Box Window Switch ...

Buy IP67 Circuit Breaker Transparent Waterproof Box Window Switch Transparent Protective Window Cover Distribution Box

Leakage current protection switches | Sigma Elektrik

Learn about the features and benefits of leakage current protection switches for increased safety and

Transparent Contact Protection Window Hood Industrial

Transparent Cover Design: Allows easy visual inspection of circuit breaker status without opening the box.

Parameters of leakage current switch in primary distribution box

The leakage protection switch is suitable for the circuits of AC 50Hz, rated voltage of 230V ~ 400V, rated current of 63A, mainly

Transparent Residual Current Leak Circuit Breaker, elcb rcbo Switch ...

DZ47LE-63 is a circuit breaker with leakage protection for domestic and industrial use. When it is detected that the

15MA Transparent Shell Leakage Protector Circuit Breaker 220V

Automatically trips to cut off faulty circuits when AC circuit leakage, overload or short circuit is detected. Adapts to household,

Transparent Plastic Shell Moulded Case Circuit Breaker 250a/4p

Transparent Plastic Shell Moulded Case Circuit Breaker 250A/4P Leakage Protection Switch

IP67 Transparent Protective Window Cover Distribution Box Switch ...

IP67 Transparent Protective Window Cover Distribution Box Switch Waterproof See-Through Window PC Material, Find Details and

Merlin Gerin Single-Phase Meter Set with Transparent Box

This set includes a single-phase 220V meter, a 2P circuit breaker, and a leakage switch, all housed in a transparent enclosure that

IP67 Waterproof Transparent Protection Window Cover

Transparent protective window cover, waterproof, dustproof and corrosion-resistant, IP67 protection grade,

IP67 Circuit Breaker Transparent Waterproof Box Window Switch ...

Buy IP67 Circuit Breaker Transparent Waterproof Box Window Switch Transparent Protective Window Cover Distribution Box

Leakage current protection switches | Sigma Elektrik

Learn about the features and benefits of leakage current protection switches for increased safety and

Transparent Contact Protection Window Hood Industrial

Transparent Cover Design: Allows easy visual inspection of circuit breaker status without opening the box.

Parameters of leakage current switch in primary distribution box

The leakage protection switch is suitable for the circuits of AC 50Hz, rated voltage of 230V ~ 400V, rated current of 63A, mainly

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

