

Distribution box ACR



Overview

ACR Electronics and ARTEX have one of the largest dealer and distributor networks to purchase our world class rescue products.

Key Takeaways

A Distribution Box ACR is an automated switching device that protects and manages overhead power distribution lines by detecting faults, interrupting the circuit, and automatically restoring power. Overview

An Automatic Circuit Recloser (ACR) is a critical component in medium-voltage distribution networks, typically operating at 11kV or 33kV. It is designed to minimize power outages by automatically detecting transient faults, such as lightning strikes or tree limb contacts, and temporarily interrupting the circuit. If the fault clears, the ACR recloses the circuit without manual intervention, restoring power quickly. Persistent faults trigger multiple reclosure attempts before the device locks out, signaling a permanent issue .

Key Features

- **Fault Detection and Isolation:** The ACR identifies faults and isolates the affected section to prevent widespread outages.
- **Automatic Reclosure:** After a short delay, the device attempts to restore power if the fault is temporary.
- **Digital Control Panel:** Provides local and remote operation, fault isolation, and coordination with neighboring equipment .

- Distribution Automation Integration: Supports Distribution Automation Systems (DAS) for automatic protection coordination and sequence coordination to prevent unnecessary tripping .
- Communication Protocols: Compatible with DNP3, IEC 61850, IEC 60870-5-104/101, and Modbus, allowing integration with SCADA systems .

Installation and Mounting

ACRs are versatile in installation:

- Can be mounted on concrete poles or H-frame steel structures.
- Supports vertical and horizontal orientations to suit site-specific requirements .
- Designed for harsh outdoor environments, sealed and weatherproof for reliable operation in extreme temperatures .

Benefits

- Reduces outage duration by automatically restoring service after transient faults.
- Enhances grid stability and service continuity in critical distribution lines.
- Minimizes manual intervention, lowering operational costs and improving safety.
- Supports environmental sustainability by using solid dielectric technology, reducing reliance on SF6 gas .

Applications

ACRs are widely used in overhead distribution networks, industrial power systems, and areas requiring high reliability. They are essential for utilities aiming to implement smart grid solutions and improve power quality and reliability . In summary, a Distribution Box ACR is a sophisticated, automated device that ensures efficient fault management, rapid power restoration, and seamless integration with modern distribution automation systems.

Article Content

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Instructions

Call (800) 307-6702 to reach customer service Monday through Friday, 8am to 5pm Pacific Time.

Rackmpumt PDU

Power distribution panel (PDU) with nine (9) NEMA 5-15R receptacles (one front, eight rear) has three

PDU with 9 (15A) Outlets, Sequencer, Remote Circuitry

Power distribution unit model ACR-SEQ4-1509 features nine 15A power receptacles and 4-step sequencer

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A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

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We offer a full line designed to allow you to easily and correctly power multiple accessories. Offered in standard and fused in both

AC Power Distribution Rack Panel: ACR-2009

DESCRIPTION: Model ACR-2009 power distribution panel features 15A and 20A outlets (nine total) to accommodate a wide variety

Lowell ACR-1509-S PDU with 9 (15A) Outlets, Surge ...

Power distribution panel (PDU) with nine (9) NEMA 5-15R receptacles (1 front, 8 rear) has three receptacles controlled by a lighted

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Automatic Circuit Recloser (ACR) – Powerbox Group

The distribution automation system is onboarded in the control panel so that automatic protection coordination is available. Through

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

