

Circuit Breaker Shunt Trip and Undervoltage Release

This shunt trip release remotely trips a circuit breaker upon receiving a signal. The undervoltage release trips the breaker when voltage drops, protecting against voltage sags and power outages.



ADDITIONAL IMAGES



Overview

Dual-Function Release Module

This auxiliary module integrates both MN undervoltage and MX shunt release functionalities to provide comprehensive control and protection for circuit breakers. Designed for remote tripping and fail-safe operation, it ensures the circuit breaker opens automatically during power loss or upon receiving an external signal. This solution is essential for emergency shutdown systems and preventing automatic equipment restarts after power failures.

Technical Specifications

Electrical Ratings

220 V

Voltage Range (50/60Hz)

208 V

Voltage Range (60Hz)

10 VA

Power Rating

Compatible Circuit Breakers

CNSX, CNSV, CNS, CNSD

Connection Type

Integrated terminal blocks (wires up to 1.5 mm²)

MN Undervoltage Release

Opening Conditions

- Automatic opening: Voltage $\leq 0.35 \times U_n$
- Opening possible (not guaranteed): $0.35 < \text{Voltage} < 0.7 \times U_n$
- No opening: Voltage $> 0.7 \times U_n$

Closing Conditions

Closing ensured when voltage supply $\geq 0.85 \times U_n$; impossible without supply.

MX Shunt Release

Operation Mode	Impulse-type (e 20 ms) or maintained order
Opening Threshold	0.7 x Un

Operational Logic

Standard Compliance IEC 60947-2	
Tripping Priority	Yes
Reset Required After Trip	Yes