

ZiyaoPower ZW32-12 Outdoor Vacuum Circuit Breaker

Pole-Mounted, 12kV / 630-1250A / 20-25kA

1. Application

The **ZW32-12** is a 3-phase pole-mounted outdoor vacuum circuit breaker for rural and urban 10kV distribution networks. Designed for load and short-circuit switching with fast auto-reclosing. Solid-pole design ensures 10,000 mechanical operations and zero SF6 reliance.

2. Technical Ratings & Certifications

Rated Voltage	12 kV
Rated Current	630A / 1250A
Short-Circuit Breaking	20 kA / 25 kA
Short-Time Withstand (4s)	20kA / 25kA
Peak Withstand	50kA / 63kA
1min Power-Freq Withstand	42 kV
Lightning Impulse Withstand	75 kV
Mechanical Life	10,000 operations
Reclosing Sequence	O-0.3s-CO-180s-CO
Operating Temp	-40 to +45degC
Applicable Standards	IEC 62271-100, GB 1984, DL/T 402

3. Key Features

- Solid-pole vacuum interrupters: epoxy/silicone encapsulation, maintenance-free
- Spring mechanism: manual/motorized, electrical closing & opening coils
- Integrated CTs: 2-phase/3-phase + zero-sequence CT for earth-fault protection
- SF6-free solid-insulated design for greener grid compliance
- Visible isolation disconnect with mechanical interlock
- Controller options: local O/C, GSM/GPRS remote, SCADA (IEC 60870-5-101/104, DNP3)
- IP65 control box, hot-dip galvanized steel frame

4. How to Order

ZW32-12-[T/...]/[630/1250]-[20/25] [Options]

Example: ZW32-12-T/630-25 Motorized CT2+ZeroSeq GPRS

5. Certifications

- IEC 62271-100: High-voltage AC circuit breakers
- GB 1984 / DL/T 402: Chinese national standards
- Type tested: temperature rise, short-circuit, mechanical endurance
- ISO 9001 | CCC

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