



FZW28-12 Outdoor Vacuum Circuit Breaker

Model:	FZW28-12
OEM and ODM Services:	Available
Enclosure:	PINEELE standard
Brand:	PINEELE, a Brand Under ZHENGXI
Form:	All- packaged Type
Scope of Application:	Suitable for industrial power distribution, voltage stabilization, and transformer protection. Widely used in commercial buildings, manufacturing plants, and utility substations.
Reviewed By:	Zheng Ji, Senior Electrical Engineer at PINEELE 18+ years of experience in HV switchgear design & testing.
Published On:	April 6, 2025
Last Updated:	April 8, 2025



Request a Quote

PINEELE



Get Free Samples

PINEELE



Request Free Catalog

- Compact Substation
- Electrical Transformer
- Cable Branching Box
- High Voltage Switchgear
- Low Voltage Switchgear
- High Voltage Components

Request Free Catalog

Table of Contents

- Key Features of FZW28-12 Outdoor Vacuum Circuit Breaker
- Applications
- Technical Parameters of FZW28-12 Vacuum Circuit Breaker
- Compliance and Standards

The **FZW28-12 Outdoor Vacuum Circuit Breaker** is a high-performance switchgear solution designed for medium-voltage outdoor applications. Engineered to withstand harsh environments and frequent operation, this **vacuum circuit breaker** provides exceptional performance in breaking and closing load currents, overload currents, and short-circuit currents. It is widely used in electrical utilities and industries such as metallurgy, mining, petrochemicals, telecommunications, and renewable energy.





Key Features of FZW28-12 Outdoor Vacuum Circuit Breaker

- **Modular Spring Operating Mechanism:** Ensures flexible operation and stable performance in various environments.
- **Compact Design:** Miniaturized structure with optimized internal layout improves installation and transportation efficiency.
- **Reinforced Structure:** High-strength column bracket improves mechanical stability and earthquake resistance.
- **Porcelain Bushing with Long Creepage Distance:** Enhances insulation performance and anti-fouling capacity in outdoor conditions.
- **High Mechanical and Electrical Life:** Designed for up to 10,000 mechanical operations and 20 full short-circuit interruptions.

Applications

The **FZW28-12 Vacuum Circuit Breaker** is commonly used in the following scenarios:

- Power grid feeder lines and distribution networks
- Outdoor substations in rural or industrial areas
- Renewable energy systems (e.g., wind and solar farms)
- Utilities requiring automated fault isolation and remote control
- Environments with high seismic activity or pollution levels

Technical Parameters of FZW28-12 Vacuum Circuit Breaker

NO.	PARAMETER	UNIT	VALUE
1	Rated Voltage	kV	12
2	Rated Frequency	Hz	50
3	Rated Current	A	630, 1250
4	Rated Short-Circuit Breaking Current	kA	20, 25, 31.5
5	Rated Short-Circuit Making Current	kA	50, 63, 80
6	Rated Peak Withstand Current	kA	50, 63, 80



NO.	PARAMETER	UNIT	VALUE
8	Rated Short-Circuit Duration	s	4
9	Operating Sequence	–	O-0.3s-CO-180s-CO
10	Heterogeneous Ground Fault Breaking Current	kA	21.93, 27.6
11	1min Power Frequency Withstand Voltage (Dry/Wet)	kV	95 / 85
12	Lightning Impulse Withstand Voltage (Peak)	kV	185
13	Opening/Closing Time	ms	≤100
14	Mechanical Life	times	10,000
15	Rated Short-Circuit Breaking Operations	times	20

Compliance and Standards

The FZW28-12 complies with the following key standards:

- **GB1984-2014** – AC High Voltage Circuit Breaker
- **GB3309-1989** – Mechanical Test of High Voltage Switchgear
- **GB/T11022-1999** – Common Technical Requirements for High Voltage Switchgear and Controlgear

The **FZW28-12 Outdoor Vacuum Circuit Breaker** is a robust and efficient medium-voltage switching solution tailored for outdoor high-voltage systems. With superior arc-extinguishing capability, high mechanical strength, long creepage insulation design, and flexible configuration options, this breaker is a dependable choice for utility operators and industrial power systems. Whether it's for feeder line protection, grid automation, or renewable energy integration, the **vacuum circuit breaker** delivers optimal performance, long-term stability, and safety in every environment.

Related products



ZW32-35 Outdoor Vacuum Circuit Breaker



ZW32-12 Outdoor Vacuum Circuit Breaker



ZW8-12 Vacuum Circuit Breaker



ZN85-40.5 Indoor Vacuum Circuit Breaker



[About Us](#)
[Privacy Policy](#)
[Refund Policy](#)
[Warranty Policy](#)

[Free Catalog](#)
[Customer Service & Help](#)
[Site Map](#)
[Contact Us](#)

[Cable Branching Box](#)
[Compact Substation](#)
[Electrical Transformer](#)
[High Voltage Components](#)
[High Voltage Switchgear](#)
[Low Voltage Switchgear](#)
[news](#)



