# FZW38-12 Outdoor HV Vacuum Load Break Switch

## Summary

FZW38-12 outdoor AC high voltage vacuum load break switch is used to open and close circuit in rated voltage 12kV, AC 50/60Hz system. It accords with the standards of IEC62271-103 & GB/T3804: 3.6kV~40.5kV AC high voltage load break switch and IEC60694 & GB/T11022: high voltage switch apparatus and control device. The anti-pollution type is especially used in serious pollution area.

## Ambient condition

1. Altitude: ≤1000m;
2. Ambient temperature: -25℃~+40℃;
3. Wind speed: ≤35m/s;
4. Earthquake intensity: ≤8 degree;
5. Relative humidity: monthly average ≤90%, daily average ≤95%;
6. Ice thickness: ≤20mm;
7. Applicable occasions should be free from inflammable, explosives and severe vibration.

## Model

F Z W 38 - 12 / 630

- 630 — Rated current
- 12 — Rated voltage
- 38 — Design serial No.
- W — Outdoor
- Z — Insulate medium (vacuum)
- F — Load breaking switch

## Structure feature

FZW38-12 outdoor high voltage disconnect vacuum load break switch adopt arc extinguish, free maintenance, most of switch case is made of stainless steel to avoid rust. The switch is opening and closing under rated load current, secondary protection device is not required, arc extinguish open contact and disconnect open contact is parallel connection, arc extinguish open contact is used for arc extinguish, disconnect open contact is used for short-circuit making and breaking, so the structure is simple, electrical life is long and operating is convenient.

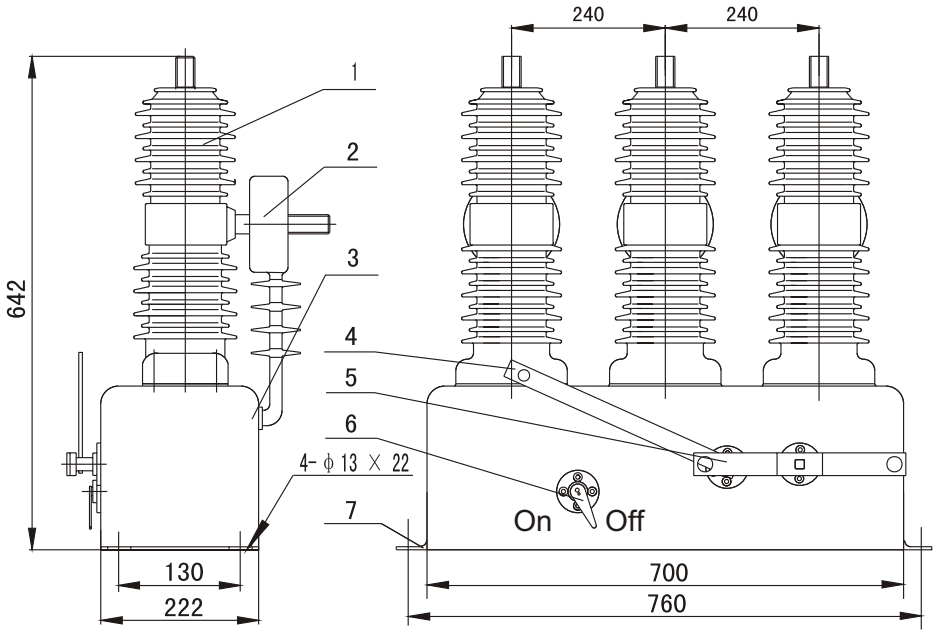
## Product feature

1. Simple structure.
2. Reliable seal performance.
3. Spring mechanism: reliable, simple structure, mechanical life can be 20000 times.
4. Handle and motor operating.
5. Switch case: stainless steel.

## Technical specification

| No. | Item | Unit | Data |
|---|---|---|---|
| 1 | Rated voltage | kV | 12 |
| 2 | Rated current | A | 630 |
| 3 | Rated power frequency | Hz | 50/60 |
| 4 | Rated peak withstand current | kA | 40 |
| 5 | Rated short-time withstand current(peak) | kA | 40/3 times |
| 6 | Rated active load breaking current | A | 630/100 times |
| 7 | 5% rated active load breaking current | A | 31.5/20 times |
| 8 | Rated cable line loop current | A | 630/10 times |
| 9 | Rated cable charging current | A | 10/20 times |
| 10 | Rated short-time withstand current | kA | 16/4s |
| 11 | Rated operating voltage | V | 220(DC,AC) |
| 12 | Auxiliary loop rated voltage | V | 220(DC,AC) |
| 13 | Operating method | | spring operating(manual/motor) |
| 14 | 1min power frequency withstand voltage(dry/wet) | kV | 42(across open contacts:49)/30 |
| 15 | Lightning impulse withstand voltage | kV | 75(across open contacts:85) |
| 16 | Outline dimension(L × W × D) | mm | 700 × 222 × 642 |
| 17 | Weight | kg | 60 |

## Structure




1.Pole 2.CT 3.Frame 4.Handle 5.Manual charging rod
6.On/off indicator 7.Installation plate

FZW38-12 Outline Dimension Drawing