

Product item : **ZW32-12 Pole Mounted Switches**

Product type :

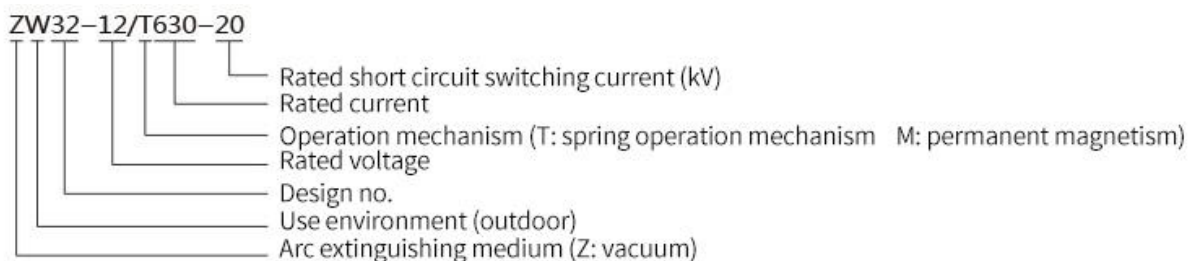
Product code :

Product introduction : ZW32-12 outdoor pole mounted switch is an outdoor power distribution equipment with rated voltage of 12kV and three-phase AC 50Hz. It mainly used to break and close load current and overload current in power system.

Summary

ZW32-12 outdoor pole mounted switch is an outdoor power distribution equipment with rated voltage of 12kV and three-phase AC 50Hz. It is mainly used to break and close the load current, overload current and short circuit current in the power system. It is applicable to the protection and control of power distribution systems in substations and industrial and mining enterprises and the frequent operation of rural power grids.

Product type :



Product Categories

- According to arc extinguishing ability, it can be divided into circuit breaker and load switch;
- According to the use, it can be divided into recloser switch, sectionalizer switch, tie switch,

and delimiter switch.

- According to the driving method, it can be divided into the elastic type and the permanent magnet type (monostable, bistable).

Working condition

| | |
|------------------------------|---|
| Ambient air temperature | +40~-45°C |
| Daily temperature difference | ≤25°C |
| Wind speed | ≤45°C |
| Altitude | ≤2000 m |
| Seismic intensity | ≤8 class |
| Environment humidity | Monthly average relative humidity ≤ 90 ° C; daily average relative humidity ≤ 95% |
| Ice thickness | 20mm |
| Installation place | No flammable, explosive, chemical or severe vibration |
| Air pollution level | IV class |

Technical features

- Epoxy resin solid sealing, silicone rubber composite insulation, high insulation capacity;
- Vacuum arc extinguishing, strong arc extinguishing ability;
- No oil, no SF6, no environmental pollution;
- Various driving methods, maintenance-free;
- Compact structure and small size;
- Light weight and easy to install;

- Various combinations, can be isolated (single isolation, double isolation);
- Flexible protection configuration, the transformer can be built in, or externally;
- Stainless steel box material, high strength, no rust;

Technical parameters

| Item | Unit | Number | |
|---|------|---|---|
| | | breaker | Load switch |
| Rated voltage | kV | 12 | 12 |
| Rated current | Hz | 630 (1250) | 630 |
| Rated frequency | A | 50 | 50 |
| Rated short-time 1 minute power frequency withstand voltage | kV | 42 | 42 |
| Rated standard lightning impulse withstand voltage | kV | 75 | 75 |
| Rated short-circuit breaking current | kA | 20 | |
| Rated short-circuit switching current (peak) | kA | 50 | 50 |
| Rated short-circuit breaking current breaking times | 次 | 30 | |
| Rated capacitor bank breaking current | A | 630 | |
| Rated short-time withstand current | kA | 20 | 20 |
| Rated peak withstand current | kA | 50 | 50 |
| Rated short duration | s | 4 | 4 |
| Mechanical life | 次 | 10000 | 10000 |
| Rated active load breaking current | A | | 630 |
| Rated closed-loop breaking current | A | | 630 |
| Rated cable charging breaking current | A | | 10 |
| Rated no-load transformer breaking current | A | | |
| Rated current start number | 次 | 10000 | 10000 |
| Secondary circuit 1 minute power frequency voltage | kV | 2 | 2 |
| Operation method | | spring operation mechanism or permanent magnetism | spring operation mechanism or permanent magnetism |
| Rated operating voltage | V | AC\DC220 V | AC\DC220 V |

| Mechanical properties | | | |
|---|-----|---------|-------|
| Contact opening distance | mm | 11±1 | 11±1 |
| Contact contact stroke | mm | 3.5±0.5 | 3±0.5 |
| Average opening speed | m/s | 11±1 | 11±1 |
| Average opening speed | m/s | 11±1 | 11±1 |
| Rated contact pressure | N | 11±1 | 11±1 |
| Contact closing bounce time | m/s | ≤2 | ≤2 |
| Contact closing and opening different types | m/s | ≤1 | ≤2 |

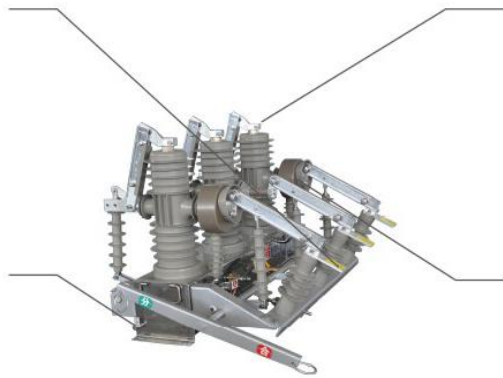
Component configuration

Isolation switch appears (optional condition):

- Mechanical interlock between the isolating switch and the circuit breaker
- When closing, the isolation switch should be combined first, then the circuit breaker should be closed. When opening, the circuit breaker should be divided first, then the isolation switch should be pulled.
- The circuit breaker is in the closed state and cannot be opened or closed.
- Isolation switch is not closed, the circuit breaker can not be closed

Mechanism case

- High-quality steel plate spray treatment or 304 stainless steel plate, strong rust resistance and high mechanical strength
- Operating mechanism optional spring operation mechanism or permanent magnet mechanism



APG solid-sealed integrated pole

- Vacuum casting with epoxy resin, silicone rubber encapsulation, high mechanical strength and strong insulation
- Use domestic or imported 12kV series vacuum interrupter, using glass or ceramic insulation shell, strong arc-extinguishing ability and high mechanical life

Measuring current transformer for protection

- It can be integrated with a voltage sensor to make an electronic current and voltage transformer, or it can be integrated with a zero-sequence transformer to become a three-phase integrated combined transformer.