

# Timetric



## Circuit Breaker Earthing Switch

High quality Timetric Circuit Breaker Earthing Switch is offered by China manufacturer Wenzhou Shuyi Import and Export Co., Ltd. The company in line with the "integrity to far, continuous development" business purposes, relying on the growing customer system, through the company's operation and capital operation of the interface, will achieve more rapid development.

### Product Description

#### **Timetric Circuit Breaker Earthing Switch Structure of vacuum circuit breaker**

High quality Timetric Circuit Breaker Earthing Switch is offered by China manufacturer Wenzhou Shuyi Import and Export Co., Ltd. Contact of vacuum arc extinguishing chamber generally adopts butt type, easy to produce head bounce phenomenon. In order to prevent the operation of overvoltage due to spring excitation, there are special requirements on the material of the contact, and it requires sufficient initial pressure and final pressure in the closing process. The bounce time should not exceed 2ms.

The contact material of vacuum circuit breaker is required to have the characteristics of welding resistance, arc resistance, low water content and low cut-off level. In order to be reliable to the short circuit current. Generally use multiple alloy to make contacts.

Commonly used are copper - tungsten-bismuth-zirconium quaternary alloys, copper - tungsten-Nickel-antimony quaternary alloys, copper - tellurium - selenium, copper - bismuth-cerium, copper - bismuth-aluminum alloys

The components of the vacuum arc extinguishing chamber are sealed in the glass shell, and the glass shell itself also plays an insulating role. In order to seal the dynamic conductive rod using bellows, it is an elastic element, through which the vacuum arc extinguishing chamber under the action of the operating mechanism can complete the division and closing operation without destroying the vacuum degree.

The vacuum circuit breaker will not be reignited after arc crossing because of the high insulation strength of high vacuum and the rapid diffusion of charged particles generated by arc between contacts in extremely thin gas. The metal vapor and charged particles in arc combustion process are absorbed by the shield and condensed in the strong diffusion. There are three Archimedean spiral grooves on the running arc surface of the contacts, so that the arc current generates a transverse magnetic field between the contacts on the route through which it flows, so that the arc current moves rapidly along the tangential

direction on the main contacts, thus reducing the temperature of the contacts and reducing the burning of the contacts.

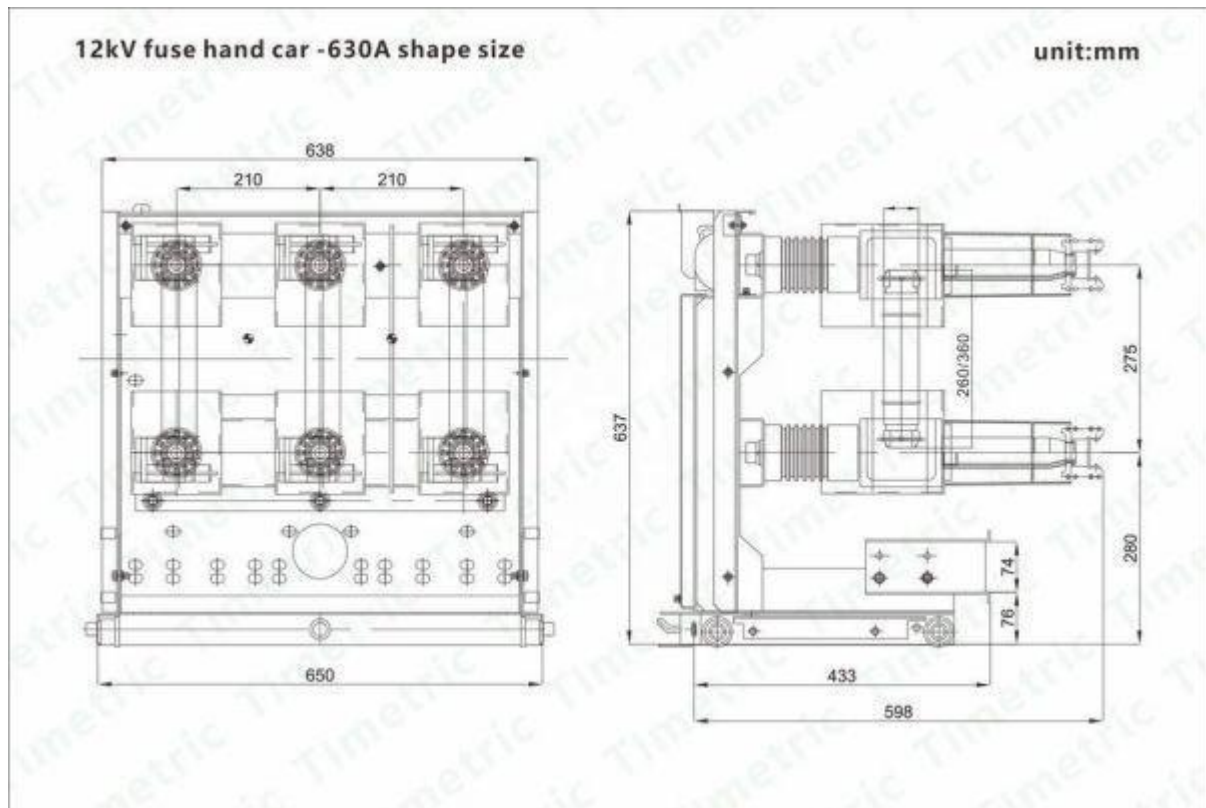
# Timetric



## Timetric Circuit Breaker Earthing Switch Parameter (Specification)

Colour	Silver gray、Red
Shape	Combination
Size	customized
Rated Voltage	12/24KV
Rated Current	630A,1250A,2000A,3150A
Number Of Poles	3
Characteristic	Safe and Stable

Material	Iron, Red copper, Epoxy resin
Surface Treatment	Plastic spraying



### Timetric Circuit Breaker Earthing Switch Operating conditions

Temperature:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$  Relative humidity: Daily mean relative humidity not more than 95%; monthly mean relative humidity not more than 90% Seismic intensity: Not more than Level 8. Saturated vapor pressure: daily mean pressure not more than 2.2kPa; monthly mean pressure not more than 1.8Kpa Altitude:  $\leq 1000\text{ m}$  (Otherwise in special cases) This device should be installed in a place free of fire, explosion, severe dirt, chemical erosion and severe vibration.

### Timetric Circuit Breaker Earthing Switch company profile

