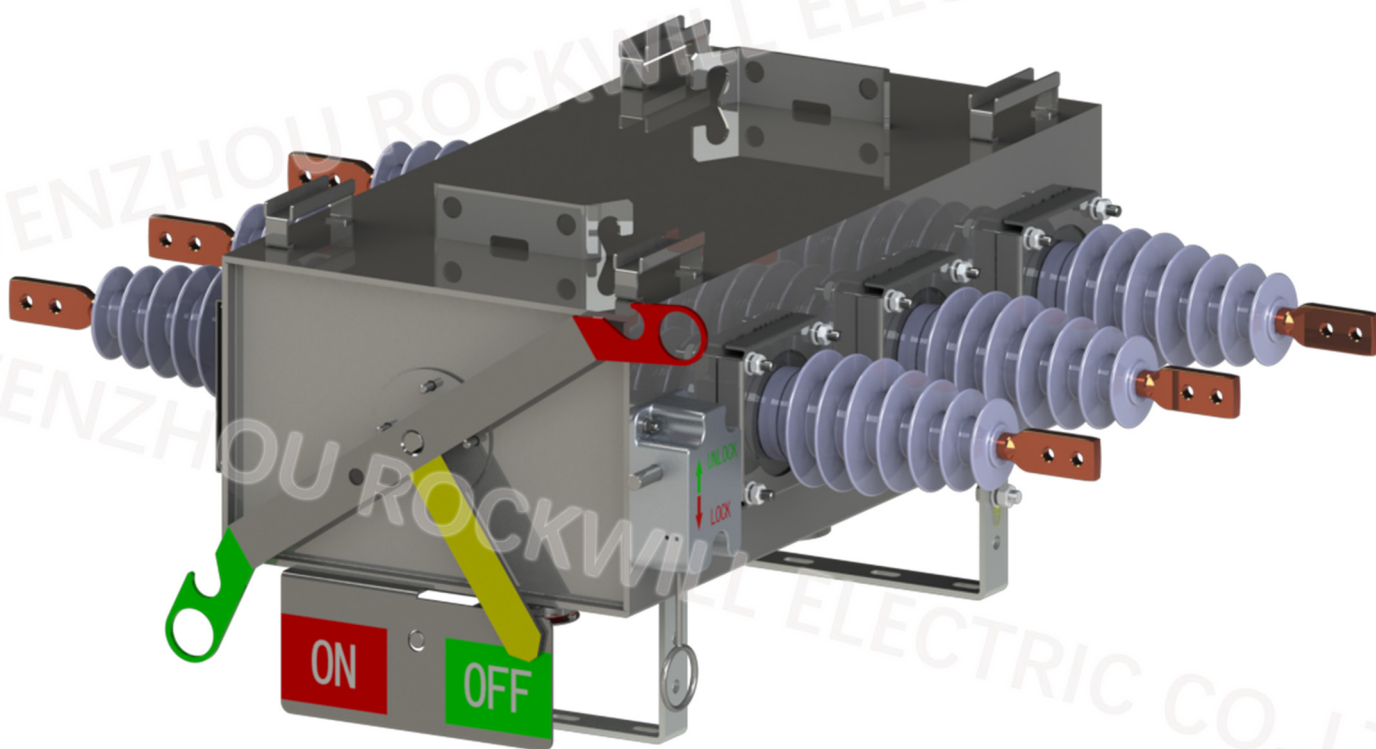




# RPS

Pole mounted Load Break Switch, Manual operation.

6kV,...40.5kV, 400A,...630,...1250A



IEC 62271-103

Provided Customized manufacture

Whole solutions for design, assembly, test...

## Catalog

**Best solution for your power!**

## • Features

### 1. Rugged switch

(special used in warships 304L stainless steel plate.)

### 2. Drivepipe with large diversity

(ceramic drivepipe, rubber insulators)

### 3. Quick operation

(operating mechanism with spring energy to ensure a quick closing and opening operation less than 100 milliseconds)

### 4. Inflation valve

### 5. High pressure relief alarm

(In order to prevent a sharp rise of the switch due to the internal exception and cause the gas pressure result in container rupture, set up a special high-pressure explosion-proof pressure relief device.)

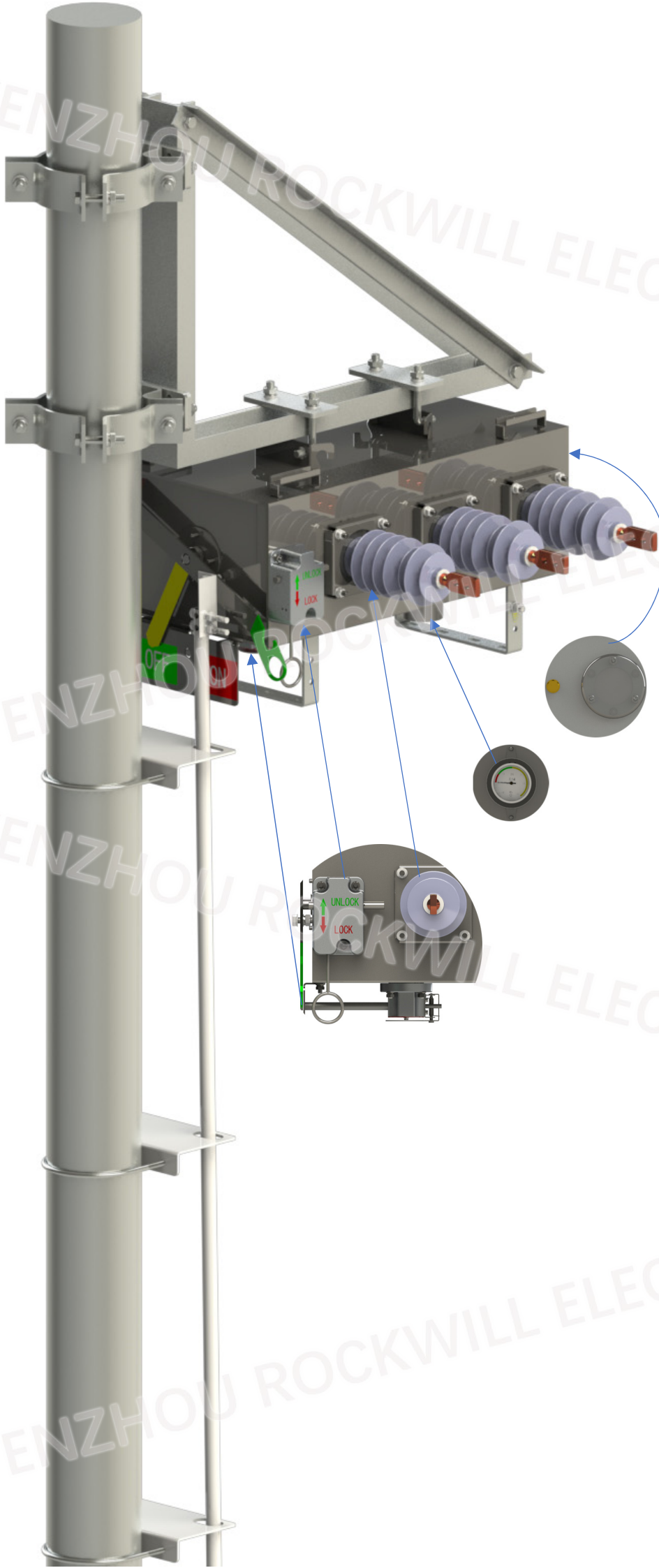
### 6. HD gas-pressure meter

### 7. Manual locking device

(Power outage operation, set to prevent the switch misuse. pull down the manual mechanical locking. When the operation is completed, push up the manual mechanical locking device to ring-pull.)

### 8. low pressure warning device

(When the pressure dropped to 0.3 ~ 0.4kgf/cm<sup>2</sup>. Equipped with automatic locking device action, switch lockout, It cannot be manual operated. also instructions to remind the red alarm signs.)



#### 9. Visible open / close status

(It is easy to see the main contact position indicator which is color-coded just standing on the ground (Green - off; red - closed). The indicator is directly connected with the main contacts of the drive shaft assembly to ensure accurate display of contact states.)

#### 10. Contact position indicator

(it is easy to see color-coded switch to division and position indicator standing on the ground, Green - off; red – closed.)

#### 11. Manual operation on ground

(It can be operated manually for open/close on the ground without operating handle and easy for maintenance and overhaul)

12. **To provide one-stop service, please consult!**

## •The appearance and size of the switch

| Dimensions ( mm ) |     |     |     | Installation size | Casing creepage distance |
|-------------------|-----|-----|-----|-------------------|--------------------------|
|                   | A   | B   | C   | Long x width      |                          |
| 12kV              | 225 | 435 | 500 | 500×125 ( 280 )   | 556                      |
| 24kV              | 300 | 435 | 500 | 500×125 ( 280 )   | 840                      |
| 38kV              | 350 | 435 | 500 | 700×125 ( 280 )   | 1250                     |

## •The switch tank

SF6 gas insulated switchgear is a three-phase linkage operation switch device designed for the distribution system cables and overhead power line segment applications.

The switch body using welding to seal the casing and the casing using rubber ring seal, and all the other parts are assembled in the welding of stainless steel tank shell.

The switch body designed to be able to withstand pressure without affecting the switch to normal operating performance.

The shell casing is made of a thickness exceeding 3 mm cold-rolled stainless steel (SUS 304L) or better materials to withstand the internal gas pressure.

SF6 gas is a kind of nontoxic, nonflammable and electrical insulating gas. It has the excellent characteristic of arc extinction.

## • Main technical data

|  |     |   |                  |         |         |
|--|-----|---|------------------|---------|---------|
| Product mode                                       |     |   | RPS-15           | RPS-24  | RPS-38  |
| Rated voltage                                      |     | kV  | 15               | 27      | 38      |
|  |     |   | 6/12/17.5        | 24/25.8 | 36/40.5 |
| Rated frequency                                    |     | Hz  | 50/60            | 50/60   | 50/60   |
| Lightning impulse withstand voltage                |     | kV  | 85               | 125     | 170     |
| Power frequency withstand voltage 1min             | Dry | kV  | 32               | 60      | 80      |
|  | Wet |   | 28               | 50      | 70      |
| Rated current                                      |     | A   | 400/630/800/1250 |         |         |
| Peak withstand current                             |     | kA  | 50               | 50      | 50      |
| Rated short time making current                    |     | kA  | 20               | 20      | 20      |
| Rated short time withstand current                 |     | KA/s  | 20/4             | 20/4    | 20/4    |
| Rated cable charging breaking current              |     | A   | 10               | 16      | 20      |
| Rated line charging breaking current               |     | A   | 1                | 1.5     | 2       |
| Rated closed-loop breaking current                 |     | A   | 400/630          |         |         |
| Rated current breaking times                       |     | Times   | ≥400             |         |         |
| Rated working pressure                             |     | MPa   | 0.05             |         |         |
| Per-phase main circuit resistance                  |     | μΩ  | ≤80              |         |         |
| Relative gas leakage rate                          |     | year  | ≤1%              |         |         |
| operation of mechanical stability                  |     | times   | 6000             |         |         |
| Weight   |     | kg  | 115              | 125     | 135     |
| institutions boxes and controller protection class |     | IP67  |                  |         |         |
| Type of Mounting                                   |     | The lifting type (suspended)/block (horizontal) |                  |         |         |

## • Operating mechanism

The actuator seal in the switch gas cabinets,

With a specially designed triangular spring operating mechanism, the use of dead flip the drive shaft contacts rapid division and the division speed depends on the spring energy largely independent role, and the external force. Of opening and closing speed and stability, institutions easy and reliable.

Rapid spring actuator and to seal in the switch body, does not occur condensation, corrosion, can guarantee that the closing of the switch, opening speed is not because of the size of the power operation of technical proficiency and closing the power supply instability affected, to ensure that the switch in the short-circuit state, with reliable breaking;

## • Ordering Information

Required to determine the product type, name, number, rated current, the operating power supply type, operating voltage.

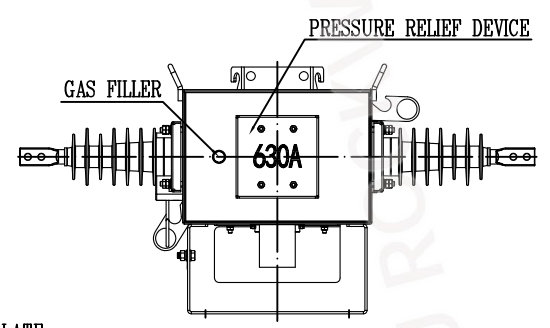
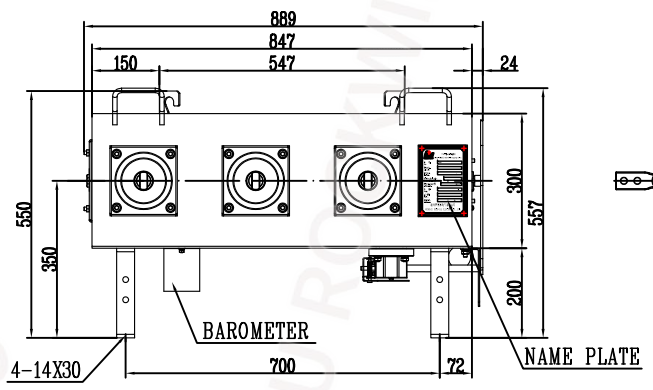
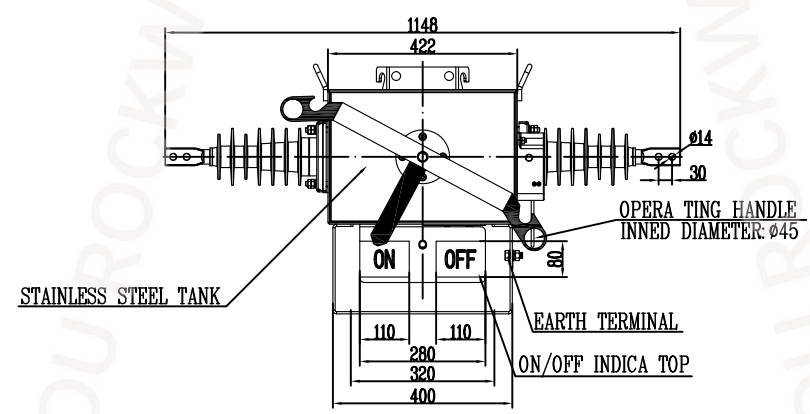
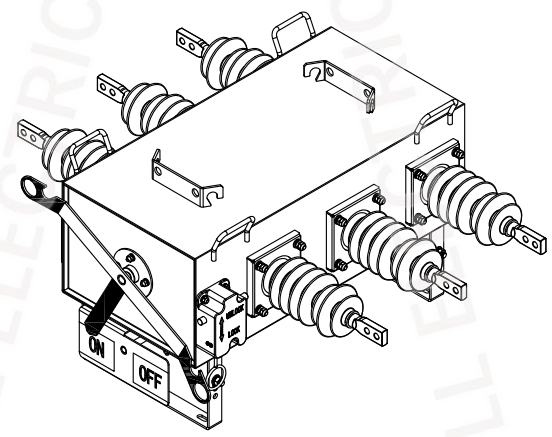
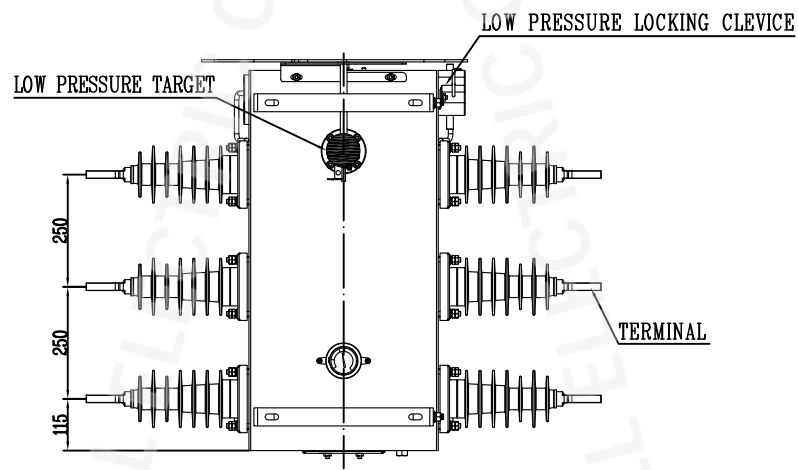
According to user requirements are available:

- (A) of the terminal outlet or cable outlet;
- (B) the ceramic casing and the casing of organic insulator;
- (C) the special fixture connected to the bus;
- (D) hanging bracket;

## • Outline & Sizes for RPS



| ZONE | REV | APPROVED |
|------|-----|----------|
|      |     |          |



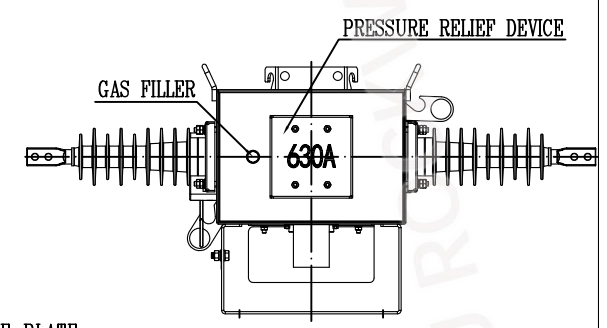
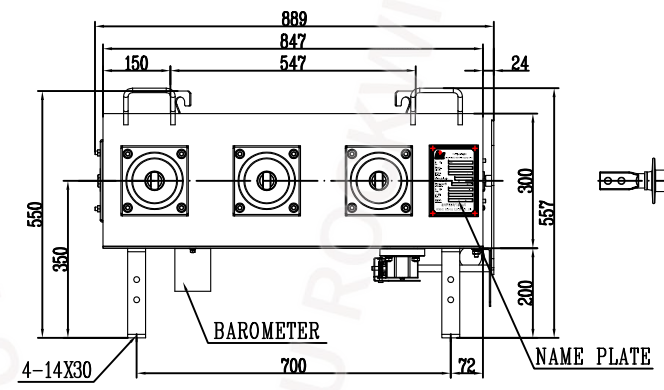
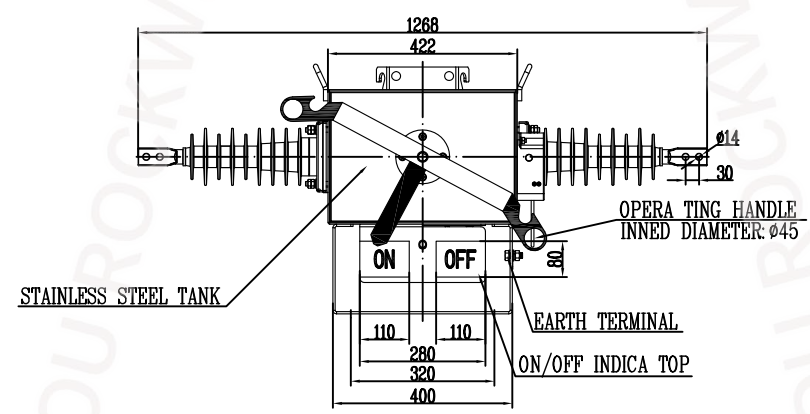
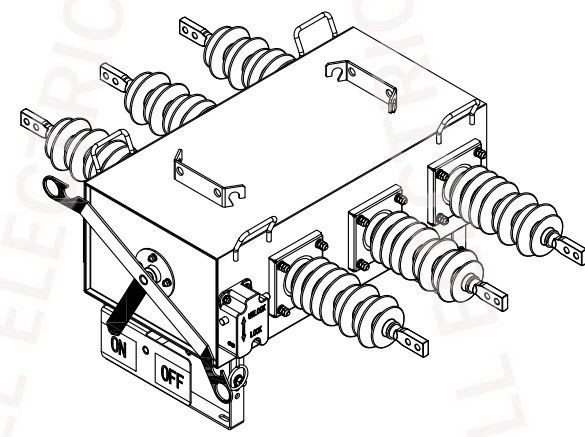
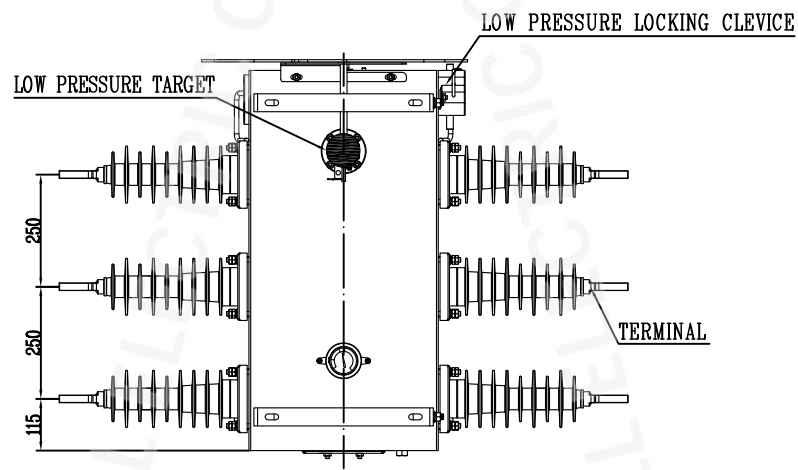
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Sizes for Manual RPS-15kV/630A



| SIZE   | Dwg NO. | Project Name. | REV   |
|--------|---------|---------------|-------|
|        |         |               |       |
| Client |         |               | SHEET |

| ZONE | REV | APPROVED |
|------|-----|----------|
|      |     |          |

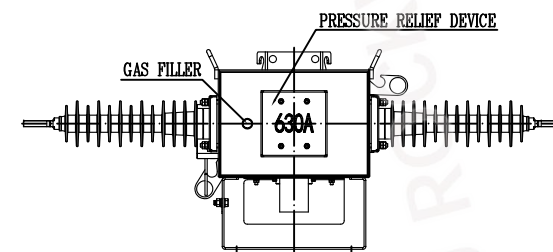
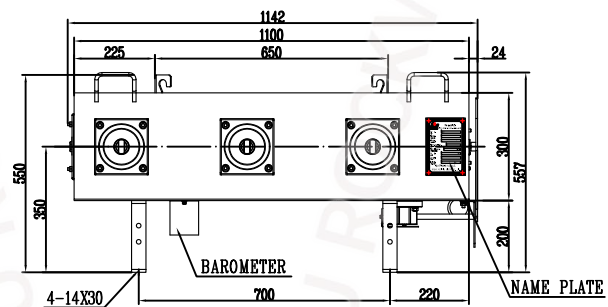
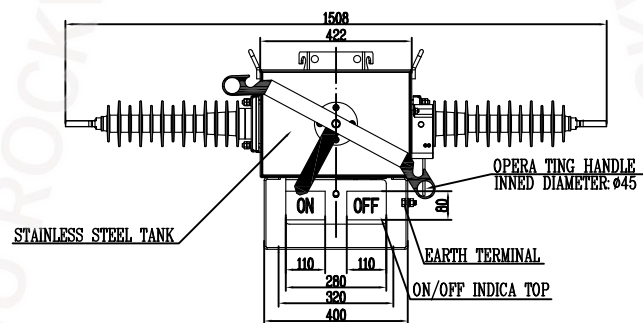
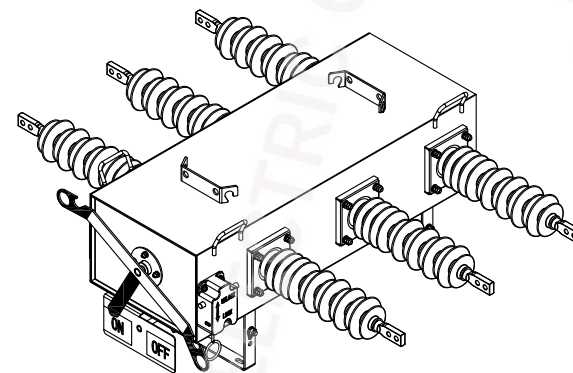
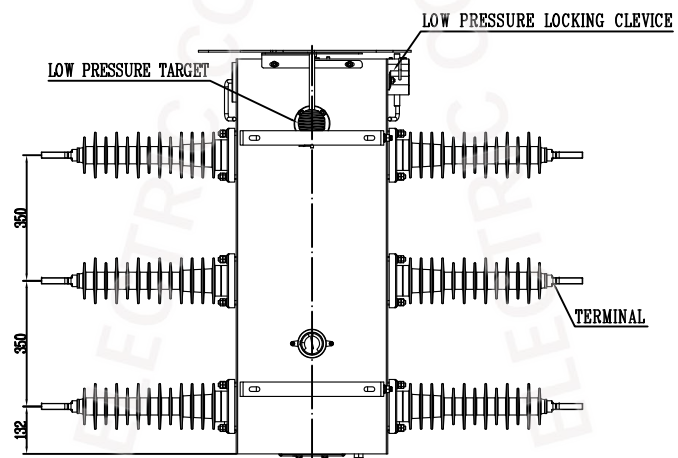


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Sizes for Manual RPS-27kV/630A



| SIZE   | Dwg NO. | Project Name. | REV   |
|--------|---------|---------------|-------|
|        |         |               |       |
| Client |         |               | SHEET |



| ZONE | REV | APPROVED |
|------|-----|----------|
|------|-----|----------|

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Sizes for Manual RPS-38kV/630A

| SIZE   | Dwg NO. | Project Name. | REV |
|--------|---------|---------------|-----|
| Client |         | SHEET         |     |