



ANHUNG

安煌电力

我们一直致力于创造出更安全的产品



Electric Power Tech

COMPANY PROFILE:

ANHUANG is a modern company of professional design and manufacture of 3.6kV to 40.5kV Medium Voltage cable accessories, electric components and whole set cabinet.

Subsidiaries:

Anhuang Electric Power Technology Co., Ltd

Zhejiang Anhuang Imp. & Exp. Co., Ltd.

We provide high quality, low cost products for utility systems worldwide.

Our professional production testing equipment, special production technology and professional service team can satisfy the customers' demand.

Our professional engineers, technicians and managers team always keep our promise: ANHUANG is not only provide cost-effective high quality products but also provide high quality, efficient, fast service and technical support to ensure customers' require. Our company obtained international quality management system certification for ISO9001, ISO14001, OHSAS18001.

Our company adhering to the 'safety electricity, forever brilliant' as our enterprise's humanism. Willing to work with you hand in hand to build better future.

Zhejiang Anhuang Imp. & Exp. Co., Ltd.

(Anhuang Electric Power Technology Co., Ltd.)

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Bay-O-Net fuse holder

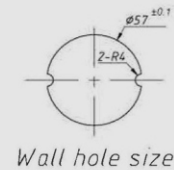
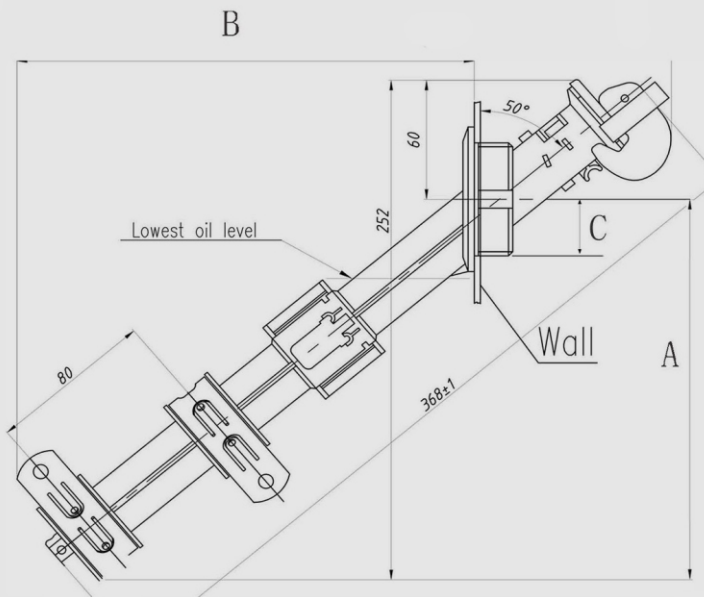


Bay-o-net Assembly is the brief element of oil-transformer, to protect the equipment when over-current. When install the fuse wire in it, the Bay-o-net will provide the safe, highly efficient protection, according to the current, oil temperature.

The Bay-o-net Assembly is suitable for current sensing fuse wire, dual sensing fuse wire, dual element fuse wire, and ELSP current-limiting backup fuse, etc.

It is suitable for high-voltage power system with alternating current of 50HZ, standard voltage of 15.5kv, current rating of 140A. It must be combining with Magn X Interrupter of ELSP Current-limiting Backup Fuse to protect transformer from overload and short circuit

Product structure and parameters



Sidewall Assembly Dimensional Information

| Rated Assembly (kV) | Length in./(mm) | | |
|------------------------|-----------------|----------------|---------------|
| | A | B | C |
| 23/38 | 7.48 (192) | 9.125 (232) | 1.125 (29) |

NOTE: Dimensions given are for reference only and can be consider with a tolerance for instance ± 5 mm.

| Description | | Parameters | |
|----------------------------|--|------------|-----------------|
| Impulse withstand voltage | | 150kV | |
| AC withstand voltage, 1min | | 50kV | |
| Voltage | Maximum Single-Phase Interrupting Rating | Voltage | Thermal circuit |
| 8. 3kV | 3000A/3500A | 10. 0kV | 160A |
| 15. 5kV | 2500A/2500A | 15. 5kV | 150A |
| 23kV | 1000A/1000A | 26. 7kV | 80A |

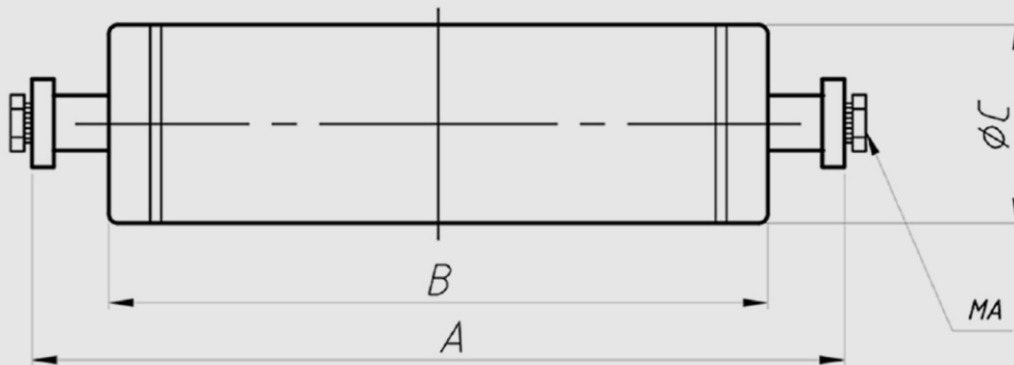
High voltage current limiting fuse



The magne X interrupter is used in series with low current primary protection devices such as a Bay-o-net Fuse or Magne X The magne X interrupter .

The magne X interrupter highly efficient current-limiting section minimizes the effects of high fault current stresses on equipment and the distribution system. Its minimum interrupting rating is coordinated with that of a low current interrupter to avoid undesirable low current operation ; yet its maximum interrupting rating will clear the highest fault currents likely to occur . Higher continuous current ratings can be achieved by connecting two fuses in parallel.

Product structure and parameters



Drawing of XRNTS series High Voltage Current-limiting Fuse

| Type | Rated current | A | B | MA | φC | Breaking current |
|------------|------------------|-----|-----|-----|-----|------------------|
| XRNT5-15.5 | 20 25 31.5 40 | 248 | 216 | M6 | φ53 | 50kA |
| | 50 63 80 100 125 | 356 | 324 | M6 | φ53 | |
| | 150 175 | 405 | 373 | M6 | φ53 | |
| | 200 250 | 494 | 462 | M10 | φ76 | |
| | 315 | 600 | 567 | M10 | φ76 | |
| XRNT5-25 | 20 25 31.5 40 | 494 | 462 | M10 | φ76 | 50kA |
| | 50 63 80 100 | | | | | |
| | 125 150 175 200 | 600 | 567 | M10 | φ76 | |
| XRNT5-40.5 | 10 16 20 | 570 | 537 | M6 | φ53 | 31.5kA |
| | 25 31.5 40 | 570 | 537 | M10 | φ76 | |
| | 50 63 | 600 | 567 | M10 | φ76 | |
| | 80 90 100 | 683 | 650 | M10 | φ76 | |
| | 100 125 | 783 | 750 | M10 | φ76 | |

Bushing well

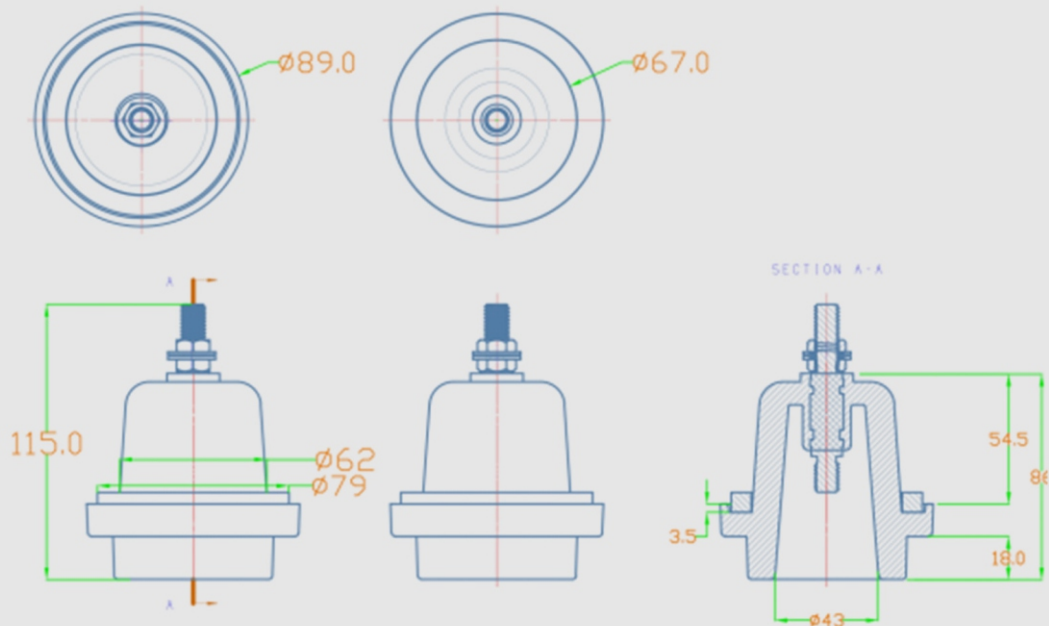


1. AH TGZ-15(25)/200A bushing well, mainly used for current 200A gas insulated switchgear, ring main unit, dry transformer and other equipments. Installed on the high voltage side of the device connect to the switch, or connect to transformer high voltage winding.
2. Can use a single-through bushing insert, feedthru insert or a single-way T arrester connected to the relevant equipment through the casing.
3. The interface complies with the IEEE386 standard.

Warning:

1. All equipments connected to the bushing well must be powered off during installation or maintenance.
2. Check the appearance of the bushing well before installation, and there should be no defects such as breakage, cracks, etc.

Product structure and parameters



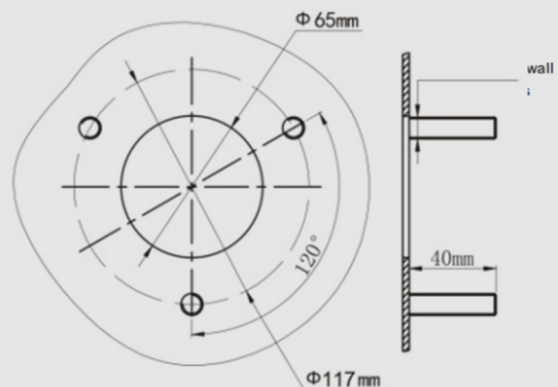
Installation

Step 1

1. Open a dia-meter $\phi 65\text{mm}$ hole on the side of the equipment installation panel, and debur the edge of the hole.
2. Averagely weld 3 lengths of M10X40mm mounting screws on the $\phi 117\text{mm}$ circle centered on the center of the hole center. (Fig 1)
3. Make sure that the seal is not damaged and place the seal into the groove of the bushing well.
4. Push the bushing well horizontally into the hole of the equipment, and press on the triangular plate and fix the three mounting holes into the corresponding equipment welding screws. Put the flat washer and the spring washer into the nut until the spring washer is flat and the torque is about 30N.m. (Fig 2)

Step 2

Clean and lubricate the inner surface of the bushing well and install a proper shielded separable connector to the front end of the bushing well.



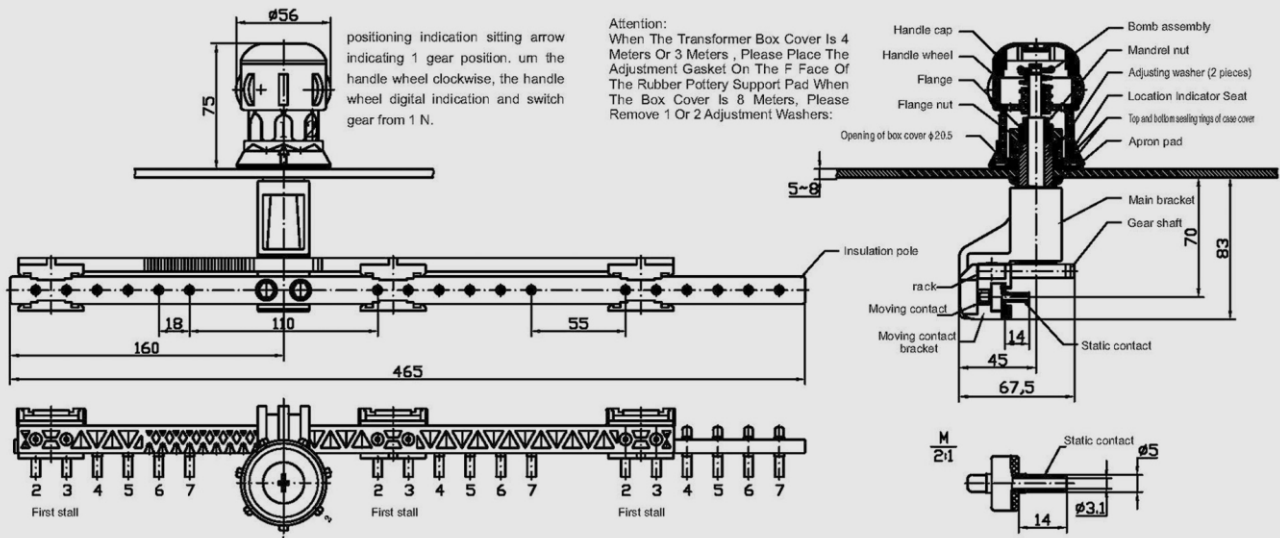
De-energized Tap Changer



This instruction is suitable for strip-type off-circuit tap changer with its frequency of 50, 60Hz, rated current 63A and below, and rated voltage 33kV (Called tap changer below). This tap changer is used in the oil-immersed power transformer and being operated under off-circuit state.

Product structure and parameters

Model Type: WST II $\pm 30/10-20-6 \times 5$ (H=70) Switch Installation Size And Description:



Installation Instructions And Considerations:

1. After the switch leaves the factory, through the transportation or other processes may cause accidental damage, the installation should be examined before the overall inspection, if there is damage, do not install.
2. This switch's rated voltage is 10-20KV, rated current is 304. The number of tap positions is 5. Suitable for the corresponding capacity of oil-immersed power transformer: the place of use should be non-corrosive and explosive gas. Suitable temperature: -25 °C-100C; altitude less than 1000 meters.
3. The static contact and the lead should be pressed, there should be no loosening phenomenon, to avoid the occurrence of adverse contact accidents. The lead should be of sufficient length to avoid the tension of the switch when it is loaded into the box cover, resulting in damage.
4. The switch synchronizes with the transformer or dries separately. The drying temperature is 95 °C ± 5 °c, and the time is 8 ~ 12 h. Tighten the mandrel and fastener after drying to prevent oil seepage and loosening. During gear adjustment, the dynamic and static contacts will be lubricated with transformer oil so as not to be too tight and scratch the contact.
5. When the switch is assembled with the box cover, in addition to the apron gasket and the sealing ring under the box cover, the upper cover of the handle, the spring assembly, the handle, the flange nut, the adjusting gasket, the positioning instruction and the sealing ring on the box cover shall be removed in sequence. Put the switch flange into the opening of the box cover (thick and thin of the box cover to carry out the "attention" requirements). Reverse load the removed parts in the above order. Pay attention to the orientation of the seat and flange.
6. When adjusting the switch, pull up the handle and rotate. In transformer test, 58 full gear shifts are made by switching cycle, and then shifts are made. When adjusting the gear, there is a sense of hand. When adjusting to the required gear, move the handle left and right slightly, and the arrow is pointed at the number of gears. It falls freely into the positioning indicator slot, and confirms it, and completes the adjusting. The switch has a limit gear limit and should not exceed it when adjusting to avoid damage.
7. When the transformer needs to be adjusted after operation, the power must be cut off. Filing is done according to Item 6. The DC resistance of the transformer should be tested before the power is sent again, and the power can be sent only after it is qualified. 8. If oil seepage occurs on the switch, please fasten the mandrel screw or flange screw.
9. Generally, when transformer is being maintained, the switch should be synchronized, which can be carried out by means of Item 6 and Item 7.
10. Switches should be handled tightly. Prevent the impact force acting on the switch to prevent damage. Waterproof, moisture-proof and dust-proof.
11. Switches should be stored in an air-flowing, dry and non-corrosive environment during storage.

Rotary Tap Changer Technical



This switch was designed by JUDA electrical research Institute. The switch adopts new structure, new material, new technology, having the advantages of reasonable structure, good hand-feeling, Flexible rotary, reach the position accurately etc. It is the improved products of the off-circuit tap changer in china at present, which applies to single-phase, three phase, combination oil-immersed transformer electrical power with frequency of 50HZ, 60HZ, rated voltage of 10-35KV, rated current of 60-125A.

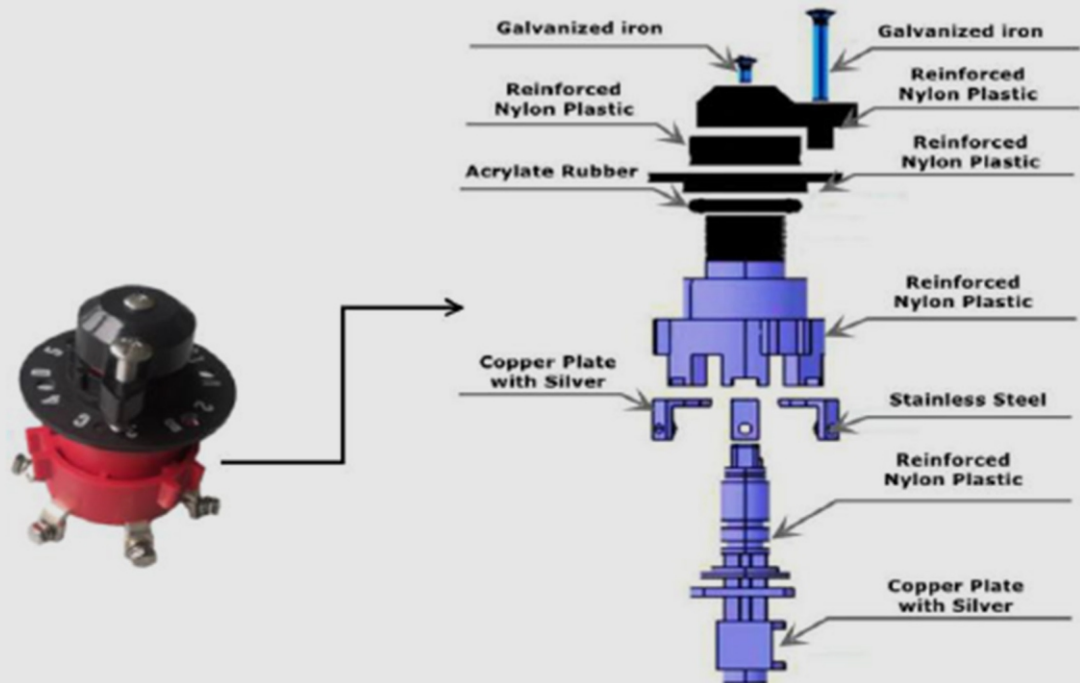
Product structure and parameters

| 规格 Specifications | | WSP63 | WSP125 | WST 250 |
|---|---|--------------------|--------|---------|
| 相数 Phase number | | 三相 three-phases | | |
| 接线方式 Connection mode | | 中部调压 Central point | | |
| 额定通过电流 (A) Rated through current (A) | | 63 | 125 | 250 |
| 短路能力 Short-circuit capacity | 热稳定 (KA/2S) Heat stableness current (KA/2S) | 1.6 | 2.5 | 3.75 |
| | 动稳定 (KA) Dynamic stableness current (KA) | 4 | 6.25 | 9.375 |
| 额定频率 (HZ) Rated frequency (HZ) | | 50~60 | | |
| 绝缘水平 (KV) Insulation level (KV) | 额定电压等级 (KV) Rated voltage (KV) | 10KV | 20KV | 35KV |
| | 工频耐受电压 (50HZ/1min) Power-frequency withstand Voltage (50HZ/1min) | 42KV | 55KV | 95KV |
| | 冲击 (1.2/50 μ S) Impulse (1.2/50 μ S) | 75KV | 125KV | 250KV |
| 密封性 (KPa/24h) Sealing Performance (KPa/24h) | | 60 | | |
| 机械寿命 (千次) Machine life (Thousands of times) | | 2 | | |

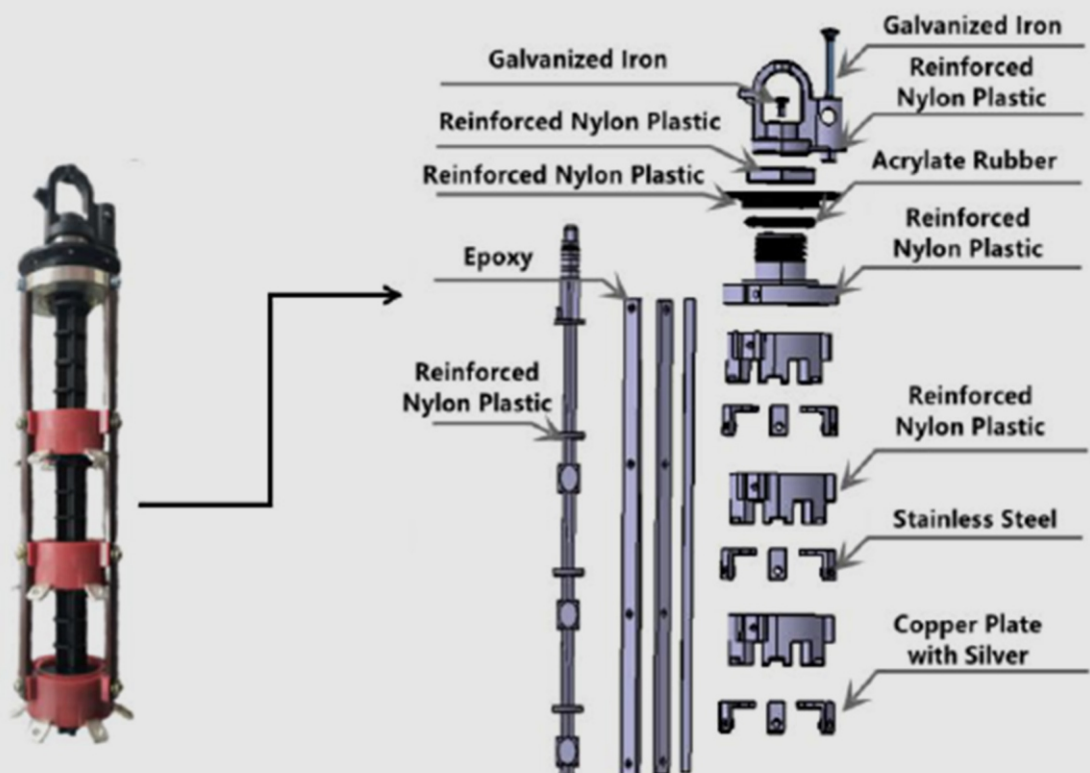
Remarks:

1. The tap changer of 63A current applies to the tank cover thickness of 5-8mm
2. The tap changer of 125A current applies to the tank cover thickness of 6-10mm
3. The tap changer of 250A current applies to the tank cover thickness of 8-12mm
4. Height below tank cover can be adjusted according to request

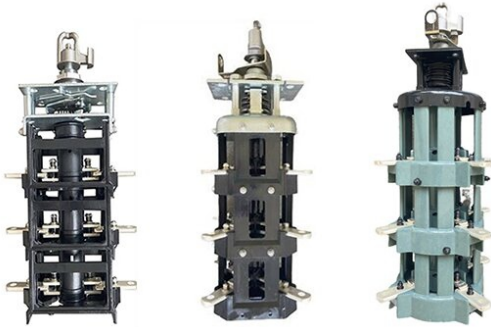
WDP Type



WSP IV Type



Oil Loadbreak switch



With the transformer oil as insulation and arc extinction medium and energy storing spring operating mechanism, this BYFI-40.5 two-position oil immersed load switch applies to the combined transformer with 50~60Hz frequency and 40.5kV rated voltage, it is capable to turn on and off the load current. Equipped with ON and OFF two positions, the clockwise turn is ON, while anticlockwise is OFF, the rotation angle should be controlled within 90 degree. In addition, it can be suitable for end power distribution system or ring-network power distribution system if equipped extra configurations

Product structure and parameters

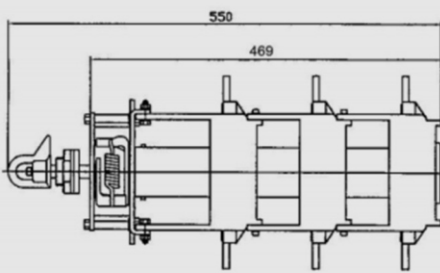


Fig 1

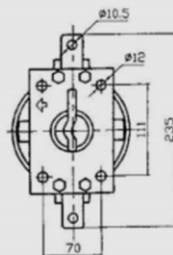


Fig 2

Ratings and Characteristics

| Description | Units | Ratings |
|---|-------------|---------|
| Rated Voltage | kV | 40.5 |
| Power Frequency | Hz | 60 |
| Current Rating | A | 630 |
| Rated thermostable current | 4 second/kA | 25 |
| Rated dynamic current | kA | 63 |
| Impulse Withstand Voltage | | |
| To ground and between phases | kV | 200 |
| Across open contacts | kV | 215 |
| Power Frequency Withstand (1 minute) | | |
| To ground and between phases | kV | 95 |
| Across open contacts | kV | 110 |
| Contacts | | |
| Mechanical life (Minimum Operations) | 2,000 | 2,000 |

Before installation, check if the switching motion is flexible and accurate carefully, only after confirmed to be under good condition, the installation can be implemented, in addition, the load switch must be dried under 65 ± 5 degree condition by 24h.

Porcelain Low Voltage Bushing

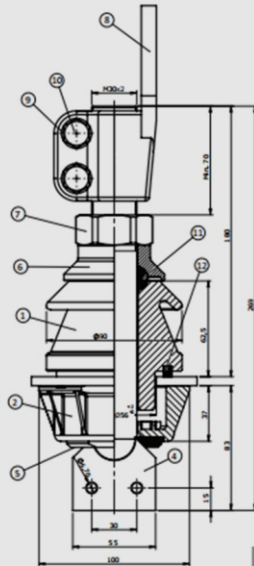
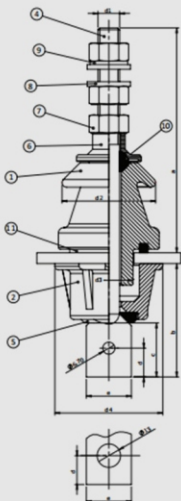
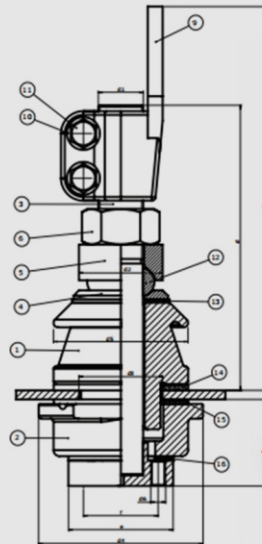
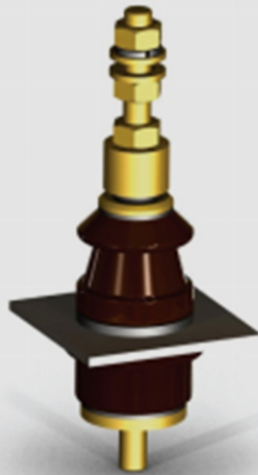
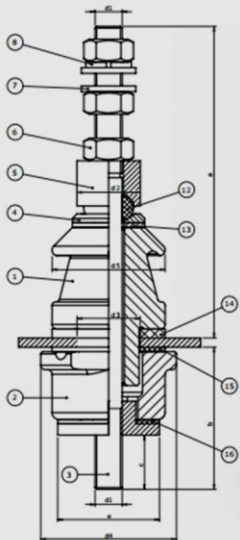


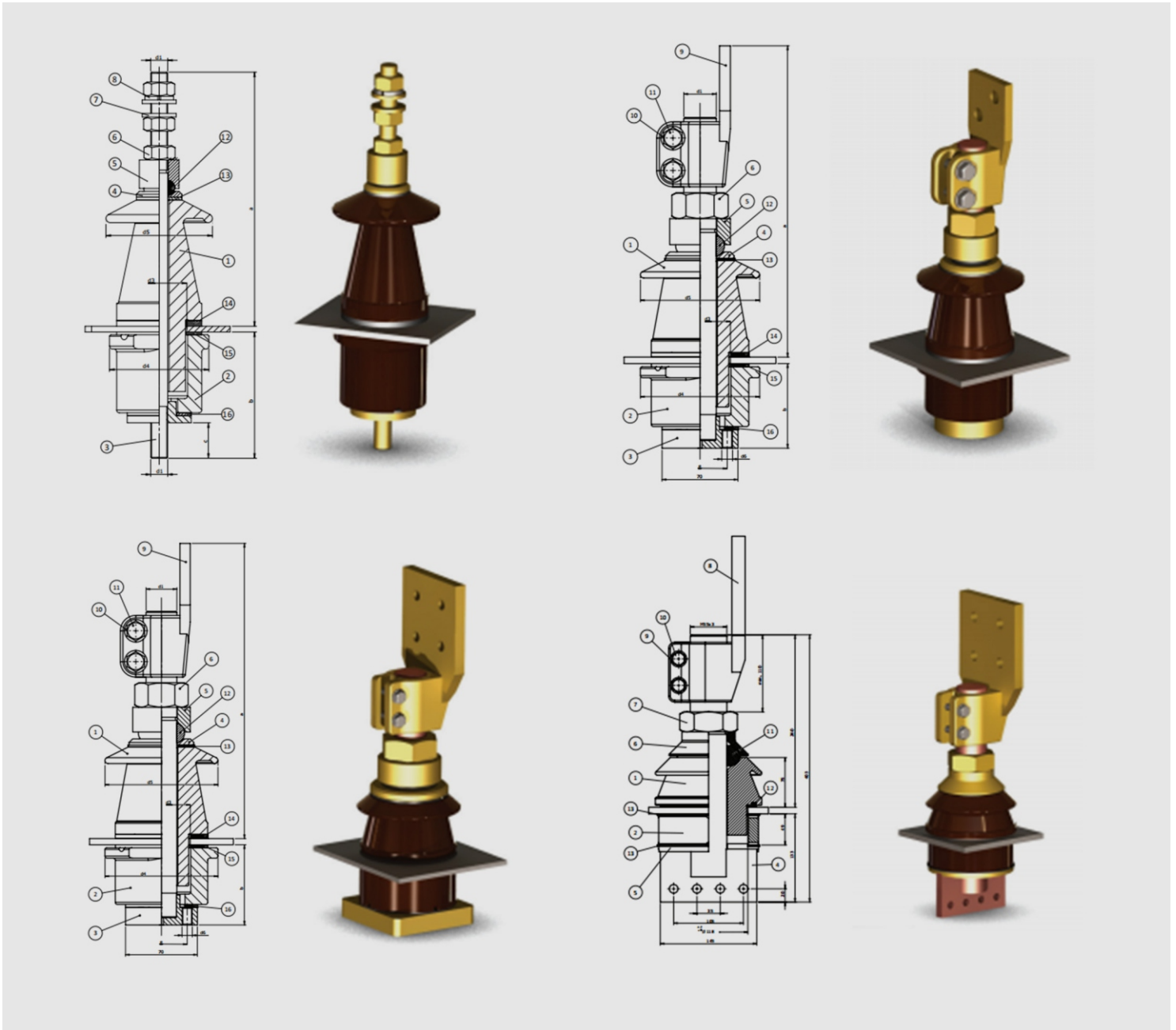
2-36kV/250-630A Oil Type Distribution Transformer
Porcelain Bushing DIN Standard

These bushings are used for oil type distribution transformer, these bushings are available in a variety of designs and can be customized to meet almost any type of customer requirements (eg tinning, special drilling, special connectors, etc.).

The LV series features a porcelain insulator on the oil side; in addition, the rods are available in copper or brass.

Product structure and parameters





Therefore, the transformer bushing has the following requirements:

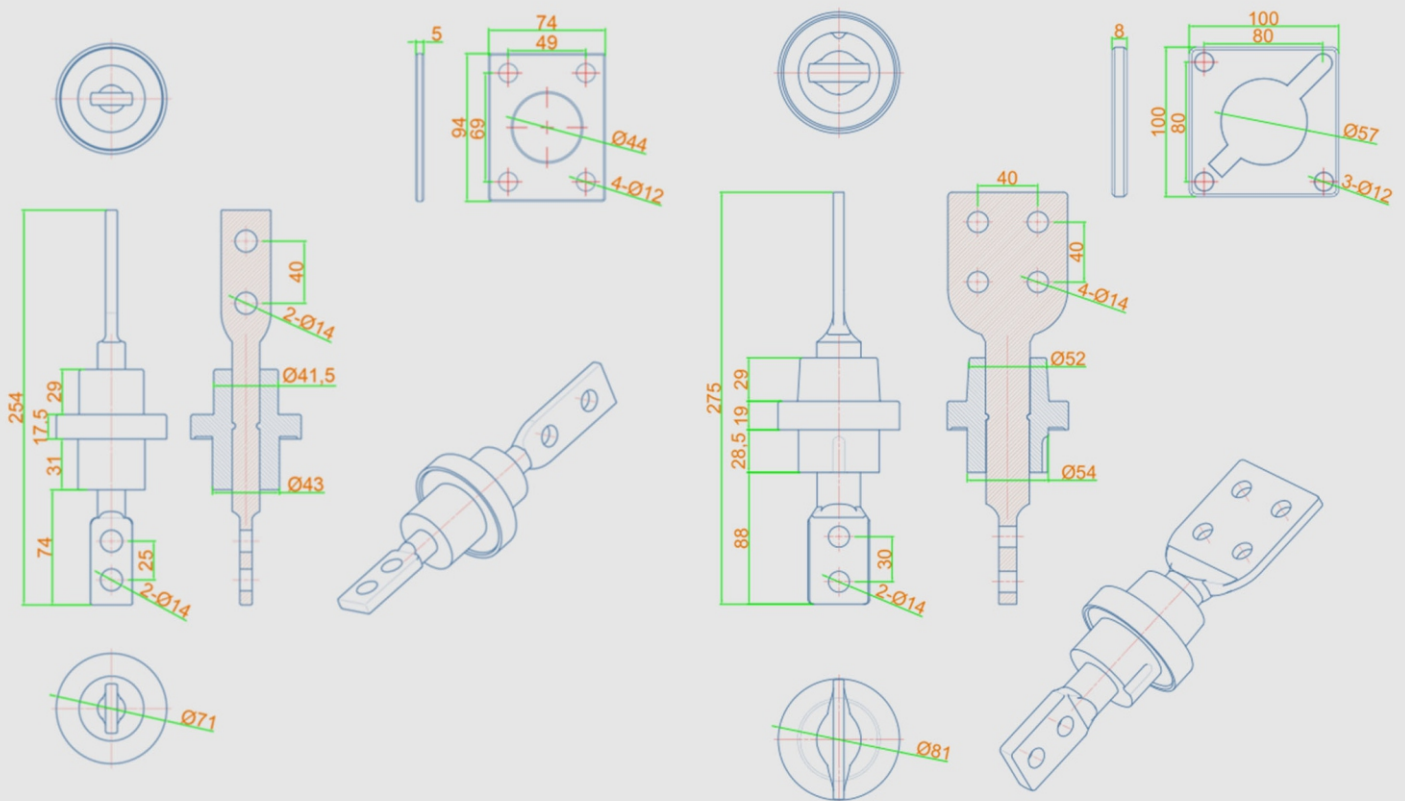
1. Must have specified electrical strength and sufficient mechanical strength.
2. Must have good thermal stability and be able to withstand instantaneous overheating during short circuit.
3. Small shape, small quality, good sealing performance, strong versatility and easy maintenance.

So you can consult us to get more professional design scheme.

Prefabricated LV bushing



Product structure and parameters



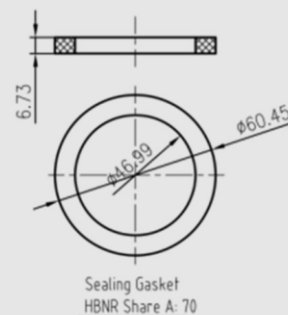
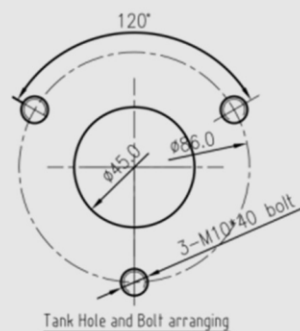
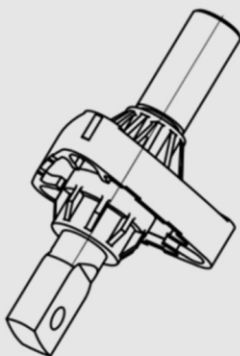
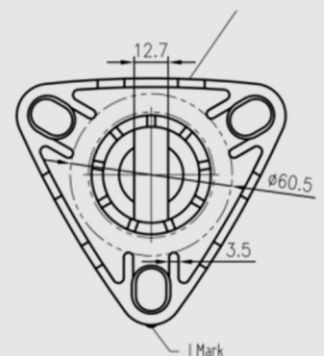
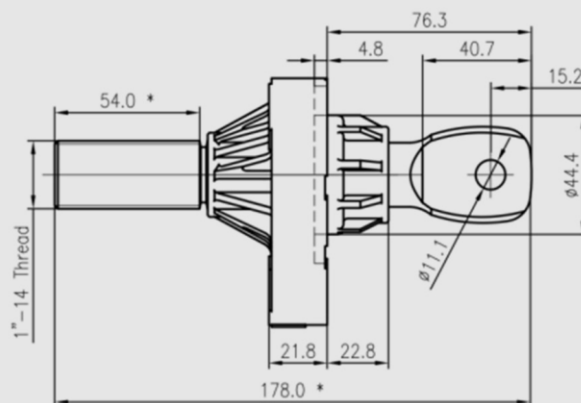
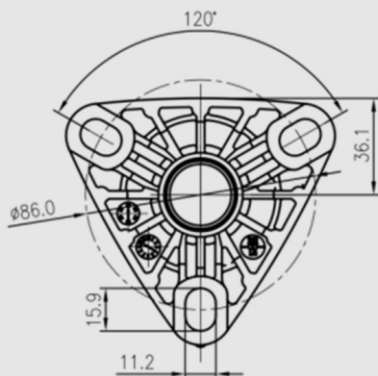
Prefabricated LV bushing



Note:

1. Voltage class 1.2 KV, BIL30KV;
2. Rated current 1200A;
3. Application temperature -40~140'C, Indoor condition without salt fog and chemical corrosion;
4. Conductor material: copper C11000;
5. Color of insulation body: black;
6. Recommended dia.of tank hole:45.0+0.5 mm.
7. Sealing gasket see left view.
8. * dimensions can be changed on customer's request. All dimensions are in mm unless otherwise specified

Product structure and parameters

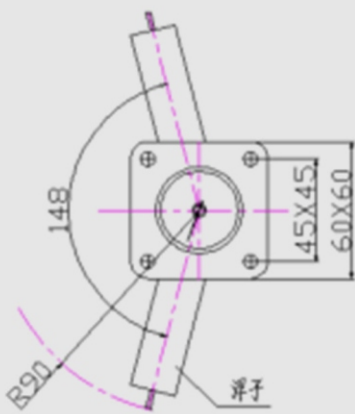


Transformer meters

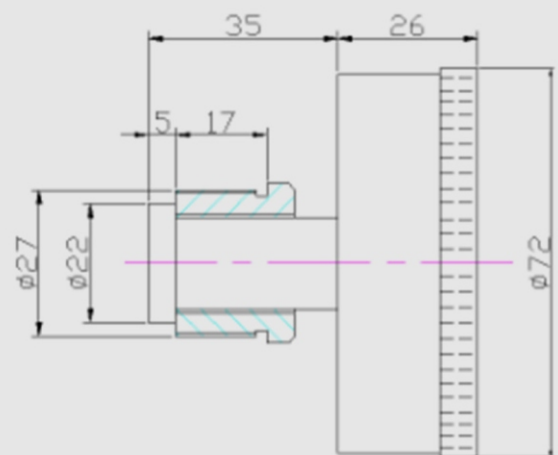
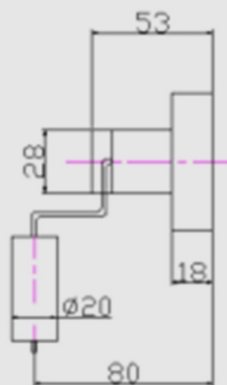


- A BWS-70 Thermometer Gauge
- YSF Pressure Release Valve
- A UHZ-01 Oil Level Indicator to Transformer
- A YZ 70 Pressure Vacuum Gauge

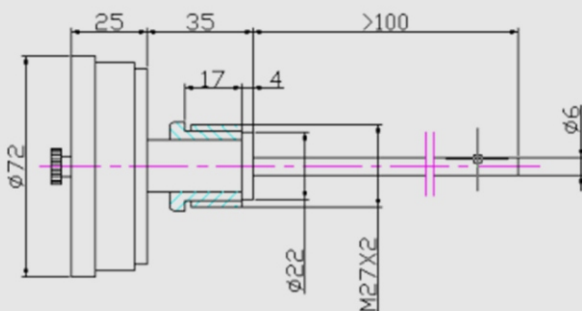
Product structure and parameters



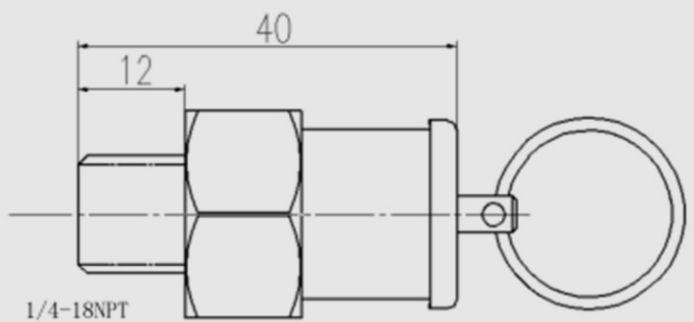
A UHZ-01 Oil Level Indicator to Transformer



A YZ 70 Pressure Vacuum Gauge



A BWS-70 Thermometer Gauge



YSF Pressure Release Valve