

## 0.28~17kV Series Polymeric Housed Metal Oxide Surge Arrester



### 1 Overview

1.1 YH1.5W type 0.28~17kV composite jacket oxide lightning rod (hereinafter referred to “lightning rod”) is a high-performance new overvoltage protection element, suitable for distribution board, switchgear, and power metering box as an overvoltage protection.

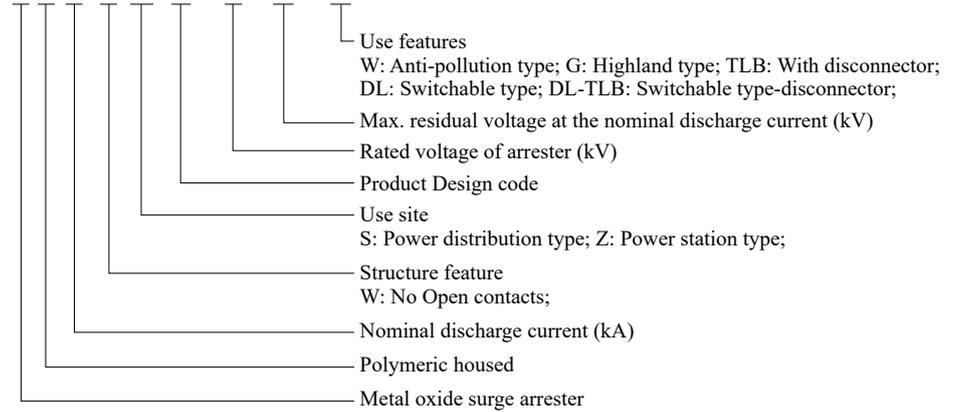
1.2 Standards:

GB/T 11032 Metal-oxide surge arresters without gaps for a.c. systems

GB/T 32520 Metal-oxide surge arresters with external series gap for overhead transmission and distribution lines of a.c. systems above 1 kV

### 2 Type Designation

Y H □ □ □ □ □ / □ - □



### 3 Technical Parameters

Arrester applications	Arrester model	Effective value of rated voltage of arrester (kV)	Effective value of rated voltage of system (kV)	Effective value of continuous operating voltage (kV)	DC 1mA reference voltage not less than (kV)	Maximum residual voltage (kV)			Max. leakage current under 0.75 DC reference voltage, $\mu\text{A}$
						Under steep slope impulse current (peak)	Under lighting impulse current (peak)	Under operating impulse current (peak)	
Low voltage	YH1.5W-0.28/1.3	0.28	0.22	0.24	0.60		1.30		50
Capacitor	YH5WS-17/50 YH5WS-17/50DL YH5WS-17/50TLB YH5WS-17/50DL-TLB YH5WD(B)G-17/50	17	10	13.6	25.0	57.5	50.0	42.5	
Line	YH5CX-13/40	17	10	13.6	24	51.8	45	38.3	

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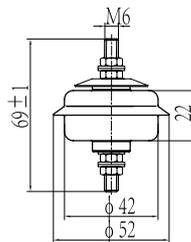
### 4 Operating Conditions

- 4.1 Ambient temperature: Not higher than +55°C, not below than -40°C;
- 4.2 Altitude: Not exceed 2,000 meters;
- 4.3 Pollution degree 3, 4
- 4.3 Power frequency: Not less than 48Hz, not exceed 60Hz;
- 4.4 Earthquake intensity: Not exceed 7 degrees;
- 4.5 The maximum wind speed does not exceed 35m/s;
- 4.6 Specify when ordering if used in highland and polluted areas.

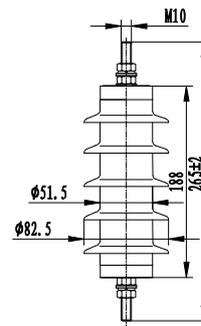
### 5 Features

- 5.1 The zinc-oxide surge arrester is the most advanced overvoltage protector currently with excellent non-linear volt-ampere characteristics, good response characteristics, non-follow current, large discharge current capacity, low residual voltage, strong overvoltage restraint capacity, reliable protection, simple structure, convenient maintenance, and long service life.
- 5.2 Under the normal system working voltage, the zinc-oxide surge arrester is at the high-resistance state, and only microampere current passes through it; under the overvoltage and large current, the arrester is at the low-resistance state, thereby limiting the residual voltages at both ends of arrester.
- 5.3 The polymeric housed metal oxide surge arrester features with excellent weather, pollution and electric arc resistance, with hydrophobicity on its surface, widely used in various power sites.
- 5.4 Under the collaboration of the series gap formed between the current leading ring and the wire and the current limiting element (arrester body), the power frequency follow current can be effectively cut at moment, thus avoiding disconnection accident of the insulating wire due to lightning stroke.

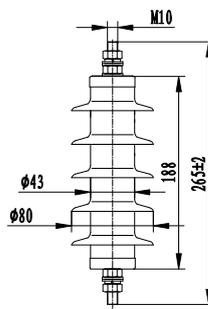
### 6 Outline and Installation Dimensions



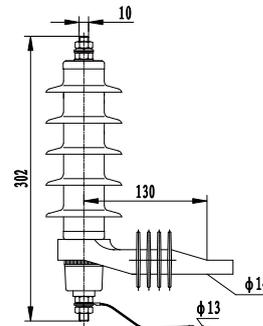
YH1.5W-0.28/1.3



YH5WZ-17/45

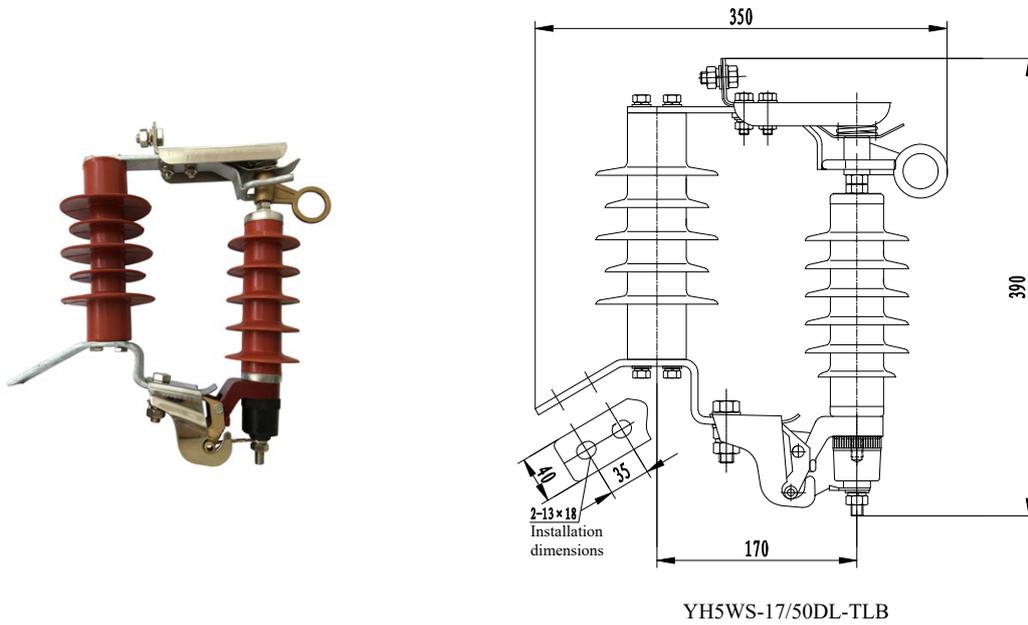


YH5WS-17/50



YH5WS-17/50TLB

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### 7 Ordering Notice

- 7.1 Product model, name, specification, and quantity;
- 7.2 Altitude and pollution grade of the use site;
- 7.3 Names and quantity of accessories.