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GW9 – 24/(400, 630)

ISOLATION SWITCH / DISCONNECTOR

OUTDOOR / THREE-PHASE / HIGH-VOLTAGE



登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.

GW9 – 24 OUTDOOR DOOR ISOLATION SWITCH / DISCONNECTOR

1. SUMMARY

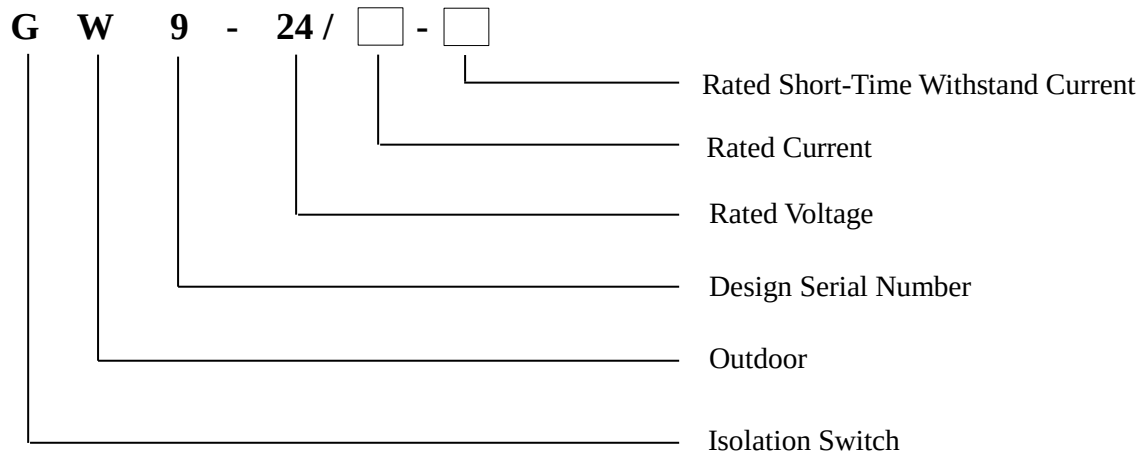
GW9-24 series outdoor high-voltage AC single pole isolation switches (hereinafter referred to as "isolation switch") are outdoor high-voltage power distribution equipment with a rated voltage of 24kV and three-phase AC 50Hz, which are applicable to 20kV high-voltage transmission lines to cut off and close single-phase or three-phase circuits without load and voltage. The rated current of the isolation switch is 200A, 400A, 600A, and 1000A.

The isolation switch is composed of a low-voltage, porcelain post insulator, a conductive part, and a mechanical part. The knife switch structure is adopted for opening and closing to cut off and close the electrical circuit. Each phase of the knife switch is composed of two conductive blades. Compression springs are installed on both sides of the blade. The contact pressure required for the knife switch can be obtained by adjusting the height of the spring. When the isolation switch is opened and closed, the insulating hook bar operating mechanism can be opened and closed. The disconnector has no self-locking device.

Isolation switches are generally suitable for transformers on three-phase line systems. The utility model has the advantages of simple structure, beautiful appearance, simple operation, and maintenance.

The isolation switch shall comply with the technical standards such as High Voltage AC Disconnectors and Earthing Switches (GB/T 1985-2004) and Technical Conditions for Ordering AC High Voltage isolation switches and Earthing Switches (DL/T 486-2000)..

2. MODEL AND MEANING



GW9 – 24 OUTDOOR DOOR ISOLATION SWITCH / DISCONNECTOR

3. USAGE: ENVIRONMENTAL CONDITIONS

1. The altitude does not exceed 3000m.
2. The ambient air temperature: Maximum:+40 ℃; Minimum:-30 ℃, Paramus:-40 ℃
3. The wind pressure does not exceed 700Pa. (corresponding to 34m/s wind speed).
4. Atmospheric relative humidity: Daily average does not exceed 95%, Monthly average does not exceed 90%
5. The installation site of an ordinary type isolator should be kept away from gas, smoke chemical deposition, salt-spray fog, dust, and other explosive and corrosive matters that affect seriously the insulation and conduction capability of the isolator.
6. Pollution-proof type isolator is applied to severe filthy conduction areas; however, it shouldn't be any explosive matters and matters causing a fire.

4. TECHNICAL PARAMETER TABLE

NO.	ITEM	UNIT	DATA	
1	Rated frequency	Hz	50	
2	Rated voltage	kV	12	
3	Rated current	A	400	630
4	Rated Short-time Withstand Current	kA	16	20
5	Rated Peak Withstand Current	kA	40	50
8	Rated Short-time Withstand Current Continuous Time	s	4	
9	1 min Power Frequency Withstand Voltage	kV	65/79 (Fracture)	
10	Rated Lightning Impulse Withstand Voltage	kV	125/145 (Fracture)	
11	Mechanical Life	Times	2000	
Note: If the altitude is over 1000m, the rated insulation level should be modified as appropriate.				

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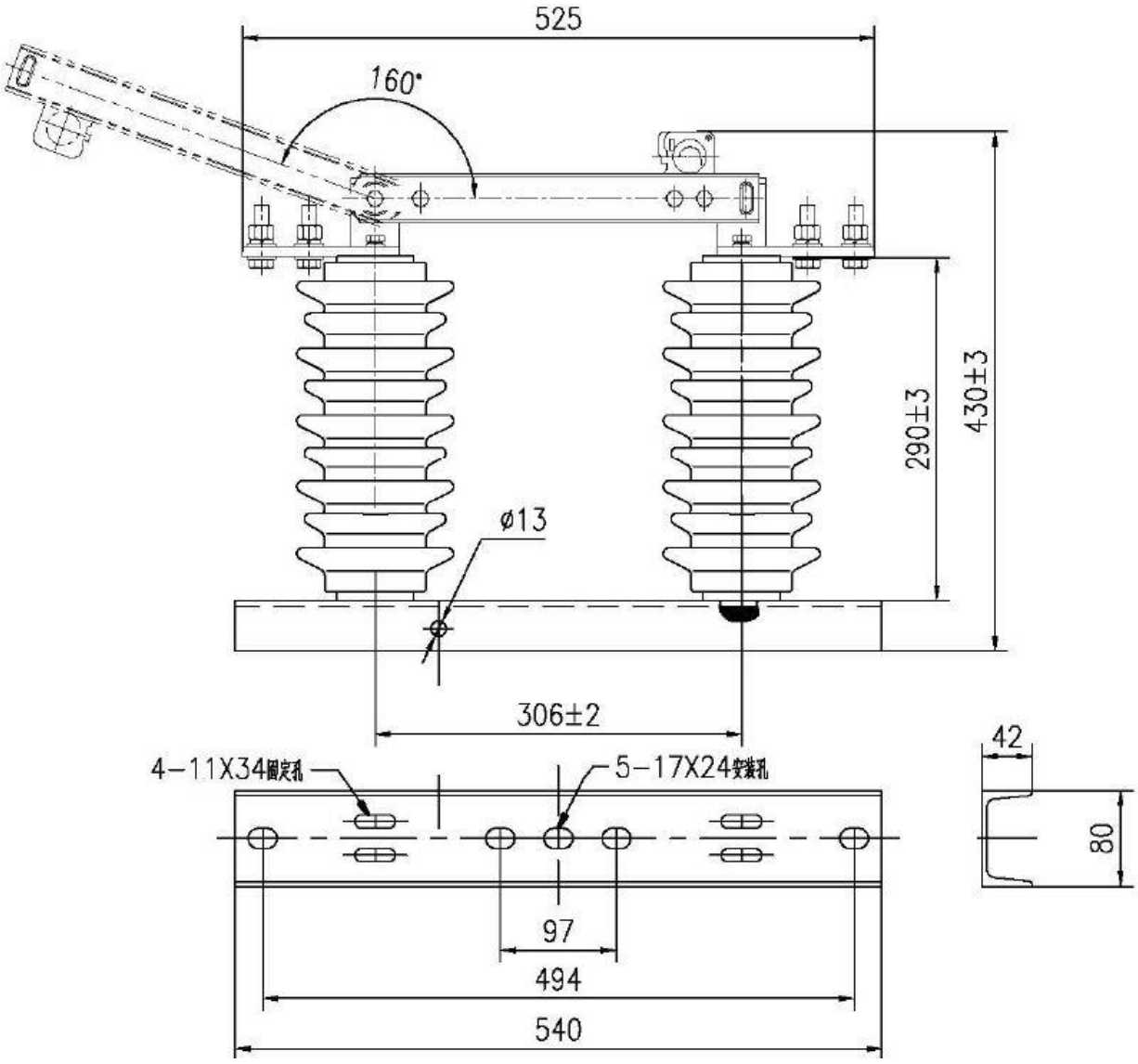
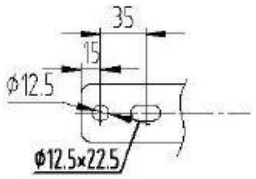
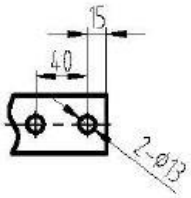
5. OUTLINE AND INSTALLATION DIMENSION





GW9-24/630接线安装孔图



GW9-24/1250接线安装孔图

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登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.
HEADQUATERS: NO. 208 WEI WU ROAD, ECONOMIC DEVELOPMENT ZONE, YUEQING-WENZHOU, ZHEJIANG-CHINA
PHONE NUMBER: 0577 – 57576678
EMAIL ADDRESS: sale@dggpower.com

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