

MV Load Switch

FZW32-12(40.5) Outdoor Vacuum Load Switch

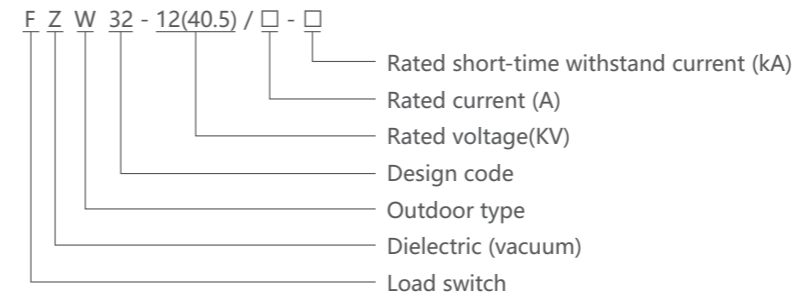
- FZW32-12 (40.5) outdoor MV isolating vacuum load switch is a new type of load switch which is the integration of mature experience of domestic existing load switch and advanced technology design of external. This load switch is composed of isolating switch, vacuum interrupter and operating mechanism and other parts. By using the principle of vacuum interrupter, with strong arcing ability, reliable performance, long service life, small volume, no explosion danger, no pollution etc advantage. The product can be used in transmission and distribution system of electric power, metallurgy, mine, chemical industry and other departments as control equipment, especially suitable for frequent operation place.

General

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Selection



Features

FZW32-12 (40.5) type outdoor high voltage isolating vacuum load switch adopts the vacuum arc extinguish chamber, no explosion danger, no maintenance. The load switch isolation knife linkage with a three-phase vacuum interrupter, breaking and closing operation in good same period, and with reliable isolation fracture when breaking, namely has the function of isolation switch. Most of the switch body parts are made of stainless steel materials, the base frame is made by stainless steel materials or hot dip galvanizing and UV protection coating processing material, can effectively prevent corrosion and rusting, ensure the normal operation in the outdoor environment. Switch knife with a pressure spring, ensure that contact with sufficient contact pressure, such not only convenient operation, and can guarantee the reliability of switching.

The isolating fracture and arc fracture of the load switch are in parallel during the opening and closing process, the arc fracture as arc, does not bear the load current task, while the isolation fracture only undertake the load current and short circuit closing task, not to participate in the arc, which not only simplifies the arc structure, and the whole structure of switch simple, stable performance; installation and operation convenient and reliable, long service life. It is a kind of economic, ideal outdoor switchgear.

The handle hook rod actuator; the operating handle is mounted on the load switch spindle end, and fastened by nuts, both ends of the handle are marked with "opening", "closing" instructions, the operator may according to need to use hook rod to hook the end of "opening" or "closing", to make the spindle rotate, spring past middle mechanism drive the isolation knife assembly and vacuum interrupter actuator motion, namely realize the switch breaking and closing. (this applies to 12kV)

Under rod mechanism operating; the load switch is installed at the upper part of the wire rod, operating mechanism is arranged in the lower part, ensure that the handle keep away from the ground not more than 1100mm, if the operation of connecting rod is more than three meters should add support guide in the middle of rod. (operating mechanism and guide support as the product accessories supply to the user) (this applies to 12kV)

Electric operation (this applies to 12kV/40.5kV)

Operating conditions

- Ambient temperature: upper limit +40°C, lower limit -30°C; Days difference does not exceed 32K;
- Altitude: 1000m and the following areas;
- Wind pressure: no more than 700Pa (corresponding to the wind speed 34m/s);
- Air pollution level: IV class
- Earthquake intensity: do not exceed 8 degree;
- Ice thickness: no more than 10mm.

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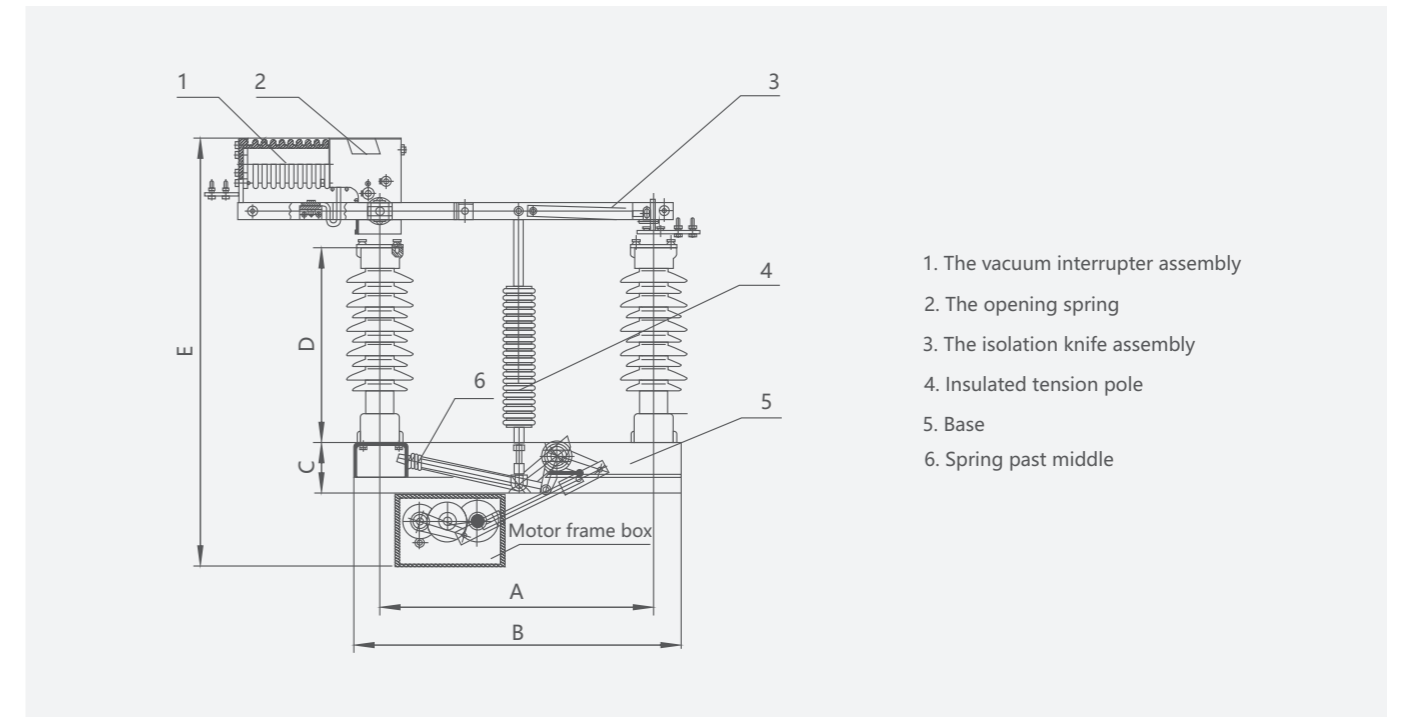
Technical data

Item	Unit	Parameter			
Load switch main technical parameters and mechanical properties					
Rated voltage	kV	12	40.5		
Rated current	A	630	1250		
Rated frequency	Hz	50	50		
Rated peak withstand current	kA	50	63		
Rated short-time withstand current	kA	20	25		
Rated short-time withstand current duration	S	4	4		
Rated active load breaking current	A	630	1250		
Rated closed loop breaking time	A	630	1250		
Rated cable charging breaking current	A	10	10		
5% at rated active load breaking current	A	31.5	63		
Rated no-load transformer breaking current rated capacity	kVA	1250	1250		
Rated short-circuit closing current	kA	50	63		
The main circuit of electronic	$\mu\Omega$	≤ 150	≤ 100		
1min power frequency withstand voltage(RMS)	Dry test	Between poles and poles to the ground	kV	42	95
		Isolating fracture	kV	48	110
	Wet test	Between poles and poles to the ground	kV	30	85
Lightning impulse withstand voltage (peak)	Between poles and poles to the ground	kV	75	185	
	Isolating fracture	kV	85	215	
Mechanical life	Times	10000	10000		
Three-phase, switching in different period	ms	≤ 5	≤ 5		
The contact blade just close position deviation	mm	≤ 2	≤ 2		
The main contact blade pressure	N	300 ± 30	450 ± 50		
The contact blade distance	mm	≥ 180	≥ 380		
Manual operating torque	Nm	≤ 200	≤ 300		
Load switch vacuum arc extinguishing chamber assembly and adjustment technology					
Open clearance between contacts	mm	5 ± 1	18 ± 1		
Average opening speed	m/s	1.1 ± 0.2	1.6 ± 0.2		
Three phase opening different period	ms	≤ 5	≤ 5		
Three phase closing different period	ms	≤ 5	≤ 5		
Distance between the charged body and the pole to ground	mm	> 200	> 380		

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Overall and mounting dimensions(mm)



Model specification	Main dimensions (mm)				
	A	B	C	D	E
FZW32-12/630-20	400	480	80	220	755
FZW32-40.5/1250-25	770	920	100	560	1236