

HV SF6 Outdoor Circuit Breaker TYPE LW3-12 I.II

General :

LW3-12 I.II SF6 HV outdoor circuit breaker is a new type product that SF6 is taken for insulating and arc extinguishing. The arc-chute consists of a breaker and an operative mechanism, using rotating arc principle. Compared with the 10KV series outdoor breakers, this kind of product has obvious advantages, such as a simple structure, the higher reliability of insulating and arc extinguishing, a lower operative power, and a higher rated parameter, a longer electrical service life, a long maintenance free duration, and so on.



This kind of product can be divided into two types: Type I and Type II. The main difference is that, type I is fitted with a kind of manual energy -storage mechanism operated by spring, mainly used on the pillar, and type II is equipped with motor-driven energy -storage mechanism operated by spring which not only can be operated by hand directly or be controlled remote, but also can do coincide automatically, mainly used in the mini-medium substation for protecting and controlling.

Type designation :

Technical parameter :

NO	Name		Unit	Data
1	Rated voltage		KV	12
2	Rated insulating level(the pressure of SF6 in the breaker is 0.25Mpa, the temperature is 20)	Lightning impulse withstand voltage (full wave)	KV	75
		Rated 1min power frequency withstand voltage		42

		The voltage withstand test under the condition of raining		34
3	The insulating level under zero pressure (the pressure on the highest phase is 5min)		KV	9
4	Rated current		A	400 630
5	Rated short-circuit breaking current		KA	6.3 8 12.5
6	The breaking current under zero pressure of t		A	400 630
7	Rated short-circuit breaking times		Times	20
8	Rated operative sequence	Type I		Off-180s-on/off-180s- on/off
		Type II		Off -0.5s- on/off -180s- on/off
9	Rated short-circuit breaking current (peak value)		KA	16 20 31.5
10	Rated peak withstand current (peak value)		KA	16 20 31.5
11	Rated short-time withstand time		S	4
12	Rated short-time withstand current		KA	6.3 8 12.5
13	Rated operating pressure		M Pa	0.35
14	The lowest operating pressure		M Pa	0.25
15	Annual leak rate		&	<=1
16	Mechanical Endurance		Times	2000
17	Weight	Type I	Kg	122
		Type II		130

Notes for ordering :

- a. Type and rated parameter;
- b. Quantity;
- c. Delivery date;
- d. If current transformer is fixed, its current ratio and accurate degree shall be 3 (normal ones are 200/5, 400/5 or 400/5, 600/5). The other current transformer with different ratio can also be equipped. Usually there is no current transformer for type II, but it is available upon requirement.