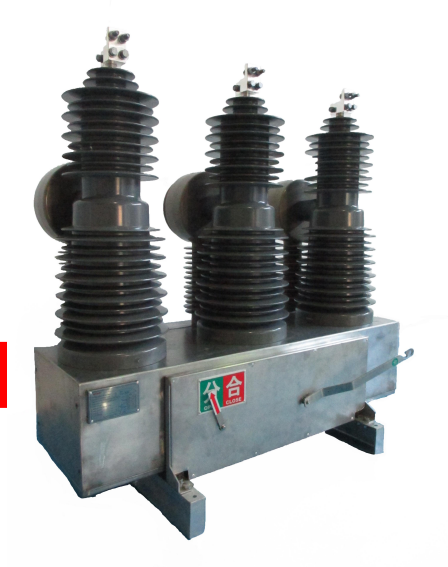
HEAG ® 华仪

ZW37S-40.5 Outdoor MV Vacuum Circuit Breaker

Summary

ZW37S-40.5 Outdoor MV Vacuum Circuit Breaker is researched and developed by our company. It is suitable for 40.5 kV power transmission and distribution network system as a kind of outdoor switchgear on the poles in the intelligent power distribution. It consists of circuit breaker, control equipment, cable jumper, current transformer and voltage transformer (or capacitance PT). It complies with the relevant requirements of GB.



Ambient Condition

1 Environmental air temperature: -25℃ ～+40℃;

2 Altitude ≤ 1000m;

3 The earthquake intensity is not exceeding 8 degree.

4 Wind pressure not exceeding 700Pa (wind speed =34m/s);

5 Tolerance air polluted degree: Ⅳ;

6 Installation site: without fire risk, explosion hazard, heavy pollution, chemical corrosion and violent vibration;

Model

Z W 37S–40.5 / M 1600- 25 Outdoor MV Vacuum Circuit Breaker

- 25 — Rated short-time breaking current（kA）
- 1600 — Rated current (A)
- M — Operating mechanism（permanent magnet）
- 40.5 — Rated voltage（kV）
- 37S — Design serial No.（S: small）
- W — Operating environment（outdoor）
- Z — Arc-extinguishing medium（vacuum）

Technical Parameters

5.1 Rated parameters of the switch

No.	Item	Unit	Technical parameters
1	Rated voltage	kV	40.5
2	Rated current	A	1600
3	Rated frequency	Hz	50
4	Power frequency withstand voltage	kV	95
5	Lightning impulse withstand voltage	kV	185
6	Rated thermal stability current	kA/S	25/4
7	Rated dynamic current	kA/S	63/0.3
8	Loop resistance	μ Ω	≤40
9	Mechanical life	time	10000
10	Protection grade		IP66

5.2 Parameters of the CB

No.	Item		Unit	Technical parameters
1	Clearance between open contacts		mm	17±1
2	Contact overtravel		mm	4.5±1
3	Average closing speed		m/s	1.0±0.3
4	Average opening speed		m/s	16+0.3
5	Closing & opening synchronism of the three-phase		ms	≤3
6	Closing trip time		ms	≤3
7	Closing time		ms	≤60
8	Opening time		ms	≤45
9	Mechanical life		time	10000

Main Feature

1. The product adopts three poles structure, three embedded poles are packed in a mechanism case together.

2. The enclosure of embedded poles is high quality outdoor epoxy resin, adopt advanced casting process, with the characteristic of prevent condensation aging, high temperature resistant, cold resistant, etc.. Avoid the imperfection and problems of SF_6 switch and oil switch. Reach free maintenance level.

3. The body of mechanism case is made of high quality stainless steel plate bending forming, adopting mature welding and sealing process, to ensure that inside the switch is without

condensation, corrosion, etc..

4. The product can be equipped with a variety change than current transformer with different ratio flexibly, used for protection, measurement and metering, the user can choose according to the requirements.

5. Inside the controller is equipped with battery, continue to work without power supply in 24 hours. If users need to work longer hours without power supply can negotiate with the manufacturer.

6. The intelligent permanent magnetic has control functions of quick-break protection, over-current protection, reclosing protection, equipped with RS485 / RS232 communication interface, and can realize optical fiber and wireless remote monitoring and fault information transmission.

7.Small volume, light weight, simply and reliably, new structure.