

Combined (Indoor)AC Metal-clad Switchgear Type - XGT3-12

General:

XGN3-12 Combined (Indoor) AC Metal-clad RMU Switchgear (hereafter refer to as "Ring Main Unit") is a new generation of HV assembled electric products which are designed, developed by ourselves. This RMU is up to GB3906 [3-35KV AC Metal-clad Switchgear] and Electric Power Department DL404 [Ordering Technical Requirement of Indoor AC HV Switchgear] as well as IEC 298 standard [1kV to 52kV Alternative Current Metal-clad Switchgear] and control equipments. At the same time, it has the function of "Wu Fang" interlock.

This product is designed by introduction of foreign advanced technology, in order to prevent the problems of high accident rate and oversize incurred in the similar switchgear. It is small in size, only 60% of the size of the ordinal switchgear; The circuit breaker has reliable performance; the "Wu Fang" interlock mechanism is simple but reliable.



Product features:

a. It is assembled by high intensity and anti-corrosion zinc plates coated with aluminium, which are in the process of rinsing, cutting and being bent, and then by high intensity bolts. It is durable and beautiful without welding.

b. It has an integration operating mechanism, an integration circuit breaker, a quick off and on disconnecter, All these above make the structure compact and less occupied areas.

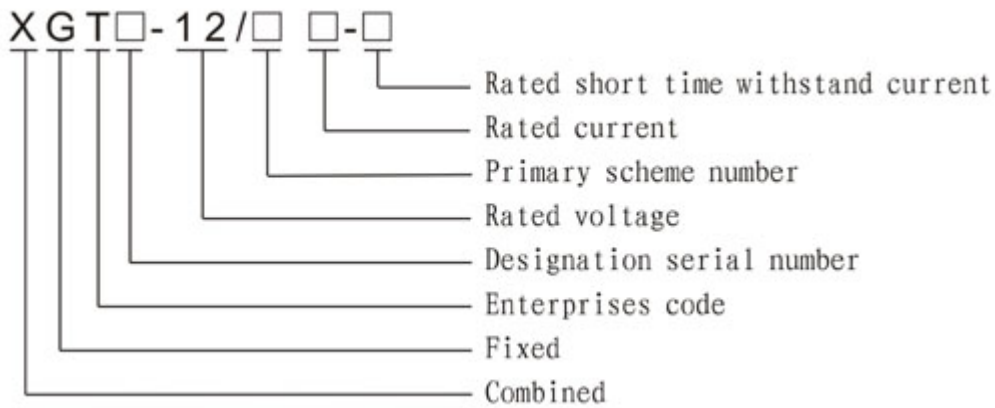
c. Programming operation mechanism is adopted between up down disconnecter and earthing switch; Because the operating sequence has been record in the operation mechanism, the complete set of operation is simply made by turning the rocker clockwise or counter clockwise. It ensures that any malfunction will not occur and the equipments and personnel are safe.

d. The protection level is IP3X;

e. It is up to "Wu Fang" requirement;

f. It could be fitted all types of integration vacuum circuit breaker, SF6 circuit breaker, circuit breaker cubicle, measurement cubicle, disconnecting cubicle and etc. functional units. They can be combined with the switchgear randomly.

Type designation :



Technical parameter :

Switchgear technical parameter table

| No. | Item | | Unit | Data | | |
|-----|---|---|------|---------------|----------------|----------------|
| 1 | Rated voltage(that is Max working voltage) | | kV | 12 | | |
| 2 | Rated insulation level | 1min power frequency withstand voltage, | kV | 42 | | |
| | | Lightning impulse withstand voltage | kV | 75 | | |
| 3 | Rated frequency | | Hz | 50 | | |
| 4 | Rated current of main busbar | | A | 630 | 1250 | 2000 2500 3150 |
| 5 | Rated current of branch busbar | | A | 630 | 1000 1250 | 2000 2500 3150 |
| 6 | 4s short-time withstand current | | kA | 20 | 31.5 | 40 |
| 7 | Rated peak withstand current | | kA | 50 | 80 | 100 |
| 8 | Protection degree | | | IP3X | | |
| 9 | Dimension(width*depth*height) | | mm | 900x1050x2300 | 1000x1050x2300 | |

Technical parameter table of vacuum circuit breaker:

| No. | Type | ZN28B-12/ĵō-31.5(20) | | | | | ZN28B-12/ĵō-40 |
|-----|---|----------------------|------|------|------|------|----------------|
| 1 | Rated voltage (kV) | 12 | | | | | |
| 2 | Rated current (A) | 630 | 1250 | 2000 | 1600 | 2500 | 3150 |
| 3 | Lightning impulse withstand voltage (kV) | 75 | | | | | |
| 4 | Power frequency withstand voltage (kV) | 42 | | | | | |
| 5 | Rated frequency (Hz) | 50 | | | | | |
| 6 | Rated short circuit breaking current (kA) | 20 | 31.5 | | | 40 | |
| 7 | 4s short-time withstand current(kA) | 20 | 31.5 | | | 40 | |

| | | | | |
|----|--|-------------------|-------------|----------|
| 8 | Peak withstand current (kA) | 50 | 80 | 100 |
| 9 | Breaking current of capacitor bank (A) | 400 | | |
| 10 | Short circuit making current(kA) | 50 | 80 | 100 |
| 11 | Rated operating sequence | 0-0.3s-CO-180s-CO | | |
| 12 | Mechanism fitted | CD17-I | CD17-II | CD17-III |
| | | CT19-I | CT19-II | CT19-III |
| 13 | Mechanical endurance | 10000 times | 10000 times | |
| 14 | Breaking times of rated short circuit | 500 | 30 | |
| 15 | Breaking times of rated current | 10000 | 10000 | |
| 16 | Main circuit resistance (i!l.) | <=35 | <=25 | |

Ordering notice :

Please provide the followings

- a. Main wiring scheme code and sing line system diagram an pareto diagram;
- b. Wiring principle diagram of secondary circuit and terminal pareto diagram;
- c. Type, specification and quantity of electric elements in the switchgear;
- d. The material, specification of main busbar and busbar are up to the manufacturer's requirement if not be requested.
- e. please indicate that if the switchgear is used in special condition;
- f. Please indicate the variety and quantity, if the accessories and spare parts are needed.