

KG N□-12 Fixed Metal-clad Switchgear

Summary

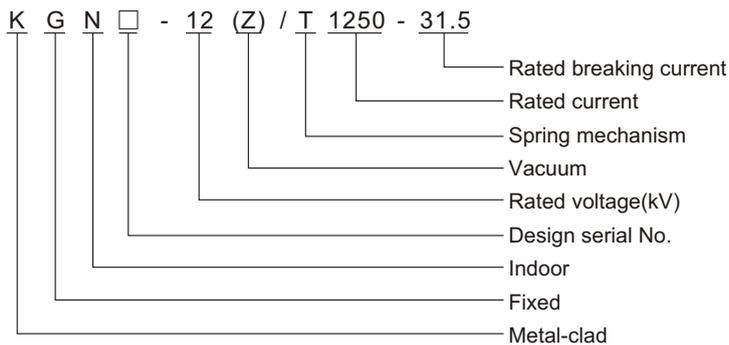
KG N□-12 fixed metal-clad switchgear(short for switchgear as below) applies to 3.6~12KV, 3 phase AC 50/60Hz network for receiving and distributing power energy and also for control, monitor and protection. It can be used in single busbar, single busbar section system. It is manufactured accord s to IEC62271-200 & GB3906 3~35KV AC Metal Enclosed Switchgear, DL404 Order Specification for Indoor AC HV Switchgear and so on. It has reliable prevention function against false operation.



Ambient condition

1. Ambient temperature: -10°C~40°C; daily average: 35°C;
2. Altitude: ≤1000m
3. Relative humidity:daily average: ≤95%,monthly average: ≤90%
4. Earthquake intensity: ≤8 degree;
5. Applicable occasions should be free from inflammables, explosives, corrosives and severe vibration.

Model



Technical specification

4.1 Technical specification of switchgear

Table 1 Technical specification

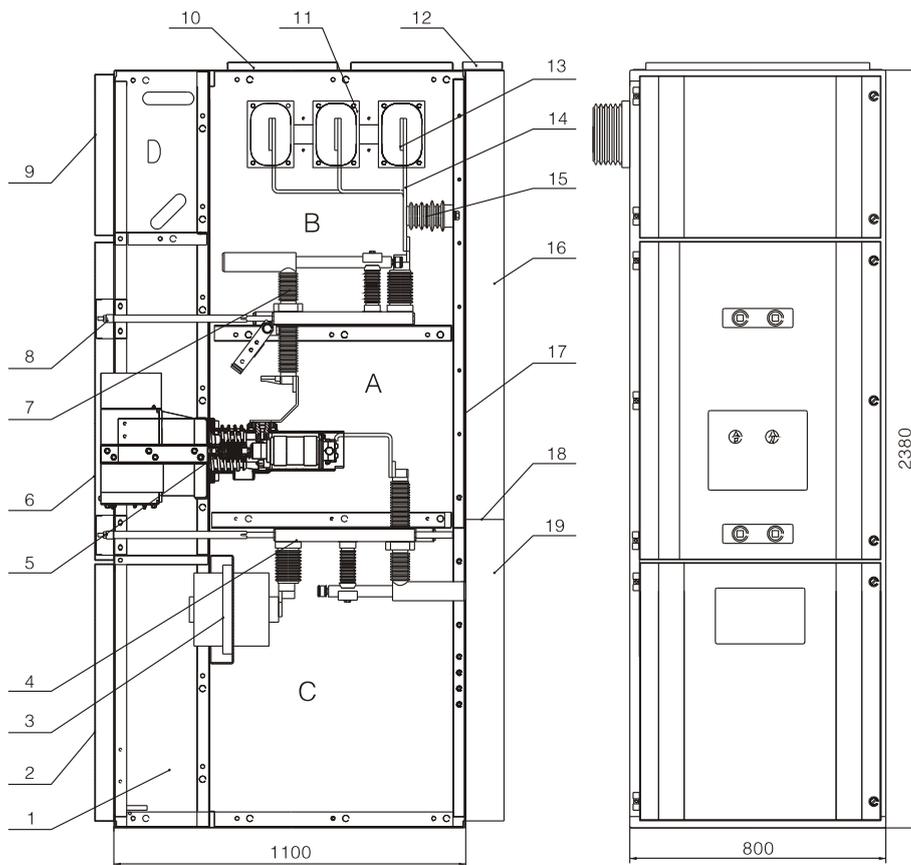
No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated current	A	630, 1250
3	Rated peak withstand current	kA	50, 63, 80
4	Rated short time withstand current	kA	20, 25, 31.5
5	Rated short circuit breaking current breaking time	Times	30
6	Mechanical life	Times	30000
7	Rated short circuit continuous time	S	4
8	Rated short circuit breaking current	kA	20, 25, 31.5
9	1 min P.F. withstand voltage	kV	42(phase to earth)48 (across open contacts)
10	Lightning impulse withstand voltage		75(phase to earth)80(across open contacts)
11	Dimension(WxDxH)	mm	800x1100x2380
12	Protection degree		IP4X

- The capacity of the current transformer will be considerly separately

4.2 Technical specification of ZN□-12 VCB

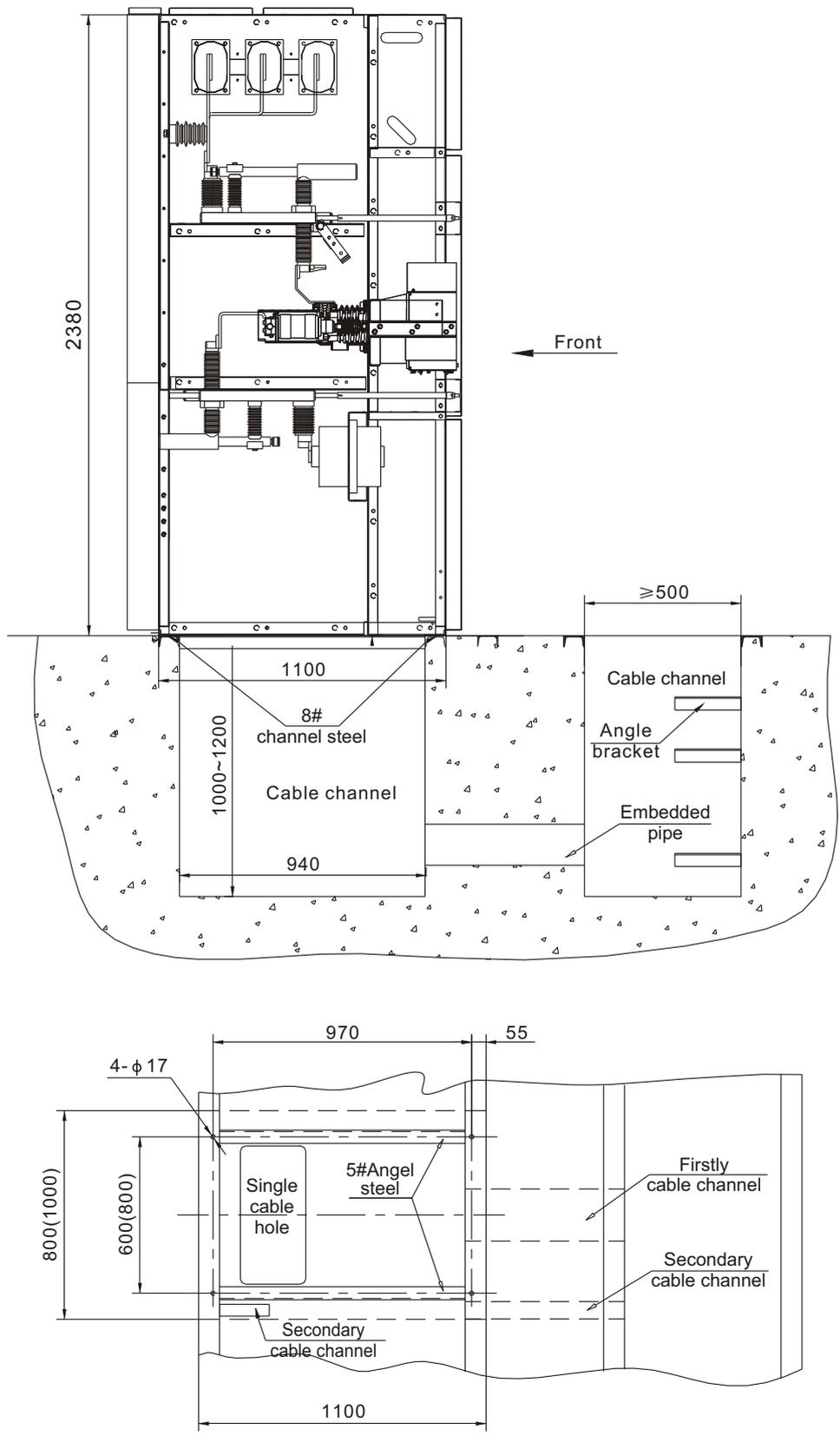
No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated current	A	630, 1250
3	Rated short circuit breaking current	kA	31.5
4	Rated short circuit making current	kA	80, 100
5	Rated peak withstand current	kA	80, 100
6	Rated short time withstand current(4s)	kA	31.5
7	Rated short circuit breaking current breaking time	times	30
8	Breaking time	ms	≤ 100
9	Rated operation sequence		O-03s-CO-180s-CO
10	1 min P.F. withstand voltage	kV	42
11	Lightning impulse withstand voltage	kV	75
12	Mechanical life	times	30000
13	Closing time	ms	≤ 90
14	Opening time	ms	≤ 60

Outline and Installation dimension



A: CB compartment B: Busbar compartment C: Cable compartment D: Instrument compartment

1. Encloser 2. Cable compartment door 3. Current transformer 4. Bottom disconnect 5. CB 6. CB compartment door
7. Up disconnect 8. Operation mechanism of disconnect 9. Instrument compartment door 10. Pressure releasing of busbar compartment
11. Busbar bushing 12. Pressure releasing of back encloser 13. Main busbar 14. Branch busbar 15. Support insulator
16. Rear door 17. Pressure releasing of CB compartment 18. Pressure releasing of cable compartment 19. Bottom door



KGN□-12 Fixed type switchgear sketch of foundation installation