

KYN18-12 Removable AC Metal-clad Switchgear

Summary

KYN18-12 removable AC metal-clad switchgear is a new product designed and developed by HEAG group based on advanced foreign design and technology. Its outstanding advantages as follows:

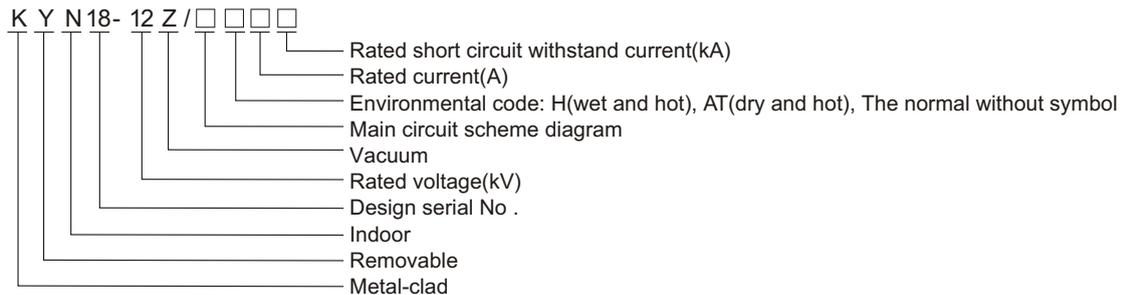
1. The enclosure is completely made of aluminium-zinc plated steel sheet which processed by CNC machine, then assembled with bolts. The structure is free from corrosives and deformation.
2. LV compartment and HV compartment are completely separated by metal sheet. It prevents from spreading to other parts due to IP4X of protection degree.
3. Effective anti-fault interlock assure that each operation step is according to specified procedure.
4. Integrated and reliable performance assure that it is free from maintenance.
5. The handcart is flexible to draw out and change.
6. Earthing switch with rapid open-close operation function has such capacity on short circuit current.
7. Secondary wiring will be buried in metal channel to prevent damages from internal failures.



Ambient condition

1. Ambient temperature: $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
2. Altitude: $\leq 1000\text{m}$;
3. Relative humidity: monthly average $\leq 90\%$, daily average $\leq 95\%$;
4. Applicable occasions should be free from inflammable, explosives and severe vibration.

Model



Structure feature

1. The enclosure is made of aluminium-zinc plated steel sheet or cold rolled iron sheet after processed by CNC machine and multi-bending, so guarantee advantages of high precision and strong corrosion preventions.
2. The complete panel is divided into four separate compartments, those are busbar compartments, handcart compartment, cable compartments and relay compartment. It is equipped with five protection lock device.
3. There is a exhaust channel spreads to the top in every compartment. The coping will open automatically to release pressure and guarantee the security of operator.
4. There is a valve mechanism among handcart compartment, busbar compartment and cable compartment. The valve closes automatically when the handcart is drawn out, then cover the main static contact to guarantee the security of maintenance man.

Technical specification

Rated voltage	kV	12
Rated current	A	630,1250,1600,2000,3150
Rated short time withstand current	kA	25,31.5,40(4s)
Rated short circuit breaking current	kA	25,31.5,40
Rated peak withstand current	kA	63,80,100

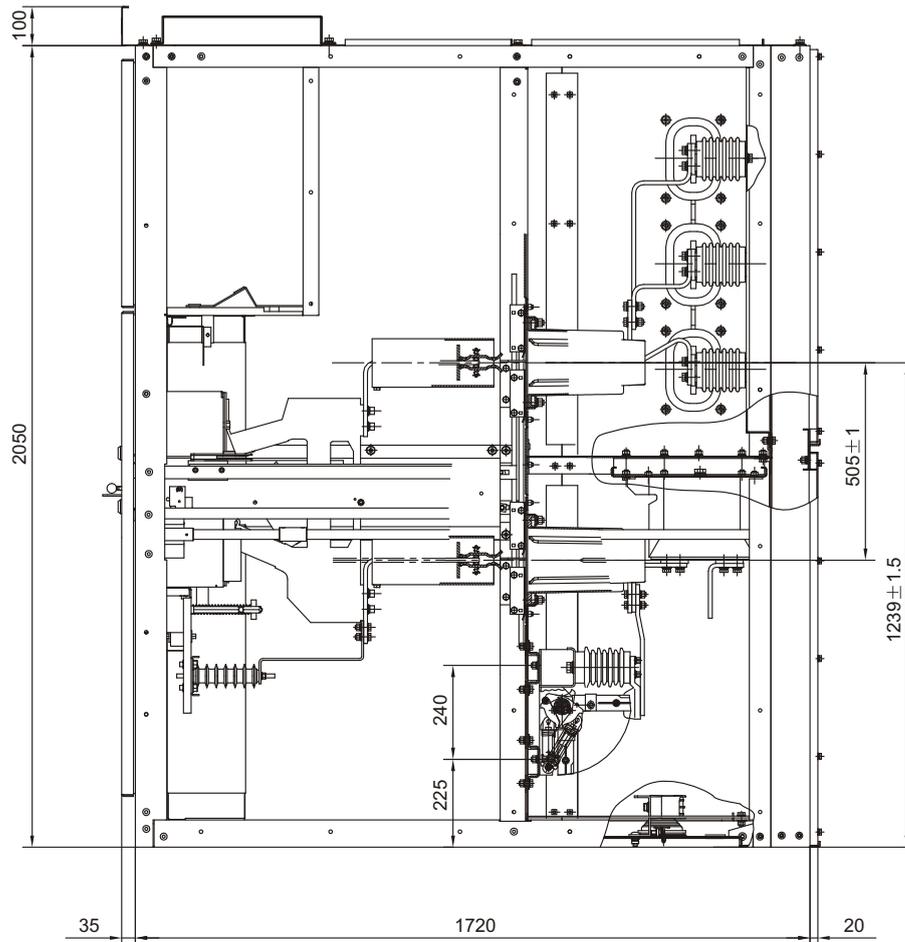
Rated lightning impulse withstand voltage	kV	75
Rated power frequency withstand voltage	kV	42(1min)
Enclosure protection degree		IP4X

Note: Take account of capability of CT withstand short circuit separately.

Technical specification of ZN12-12 VCB

Item	Unit	Data	
Rated current	A	630, 1000, 1250, 1600, 2000	1600~4000
4s short-time withstand current	kA	20, 25, 31.5	31.5, 40, 50
Rated short circuit breaking current	kA	20, 25, 31.5	31.5, 40, 50
Rated peak withstand current	kA	50, 63, 80	80, 100, 125
Rated short-circuit breaking times	Times	50	30
Mechanical life	Times	10000	10000
Operating mechanism		Spring operating mechanism	
Control circuit voltage	V	AC/DC 110/220	
Motor power	W	245	

Outline and installation dimension



KYN18 Metal-clad Switchgear