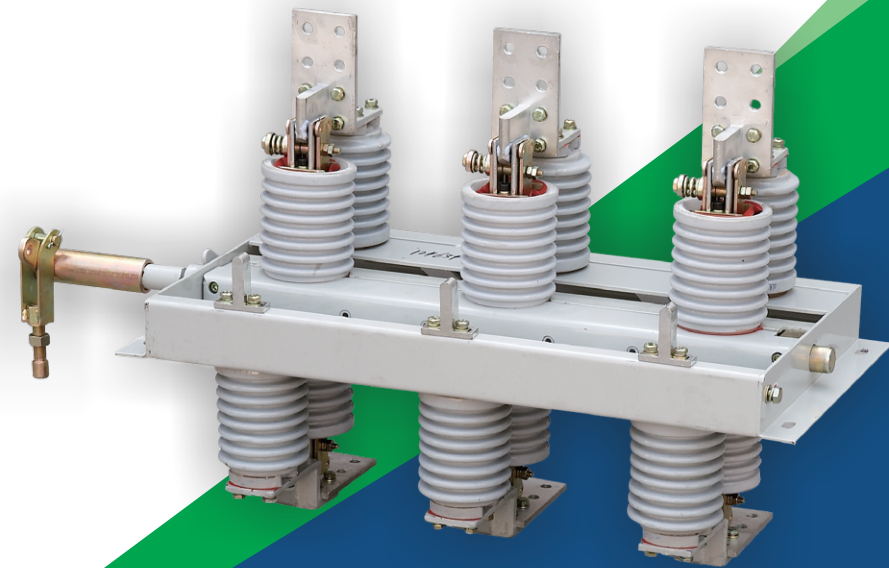




GN30-12

Rotary indoor high-voltage disconnect switch
Product Instruction Manual



Zhejiang Aikai Electric Co., Ltd.

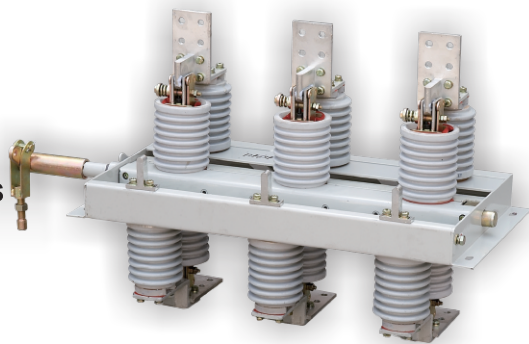
Catalog

Product Overview-----	01
Model Number Meaning-----	01
Operating Environment Conditions-----	01
Technical Data-----	02
External Dimensions-----	02
Ordering Information-----	04

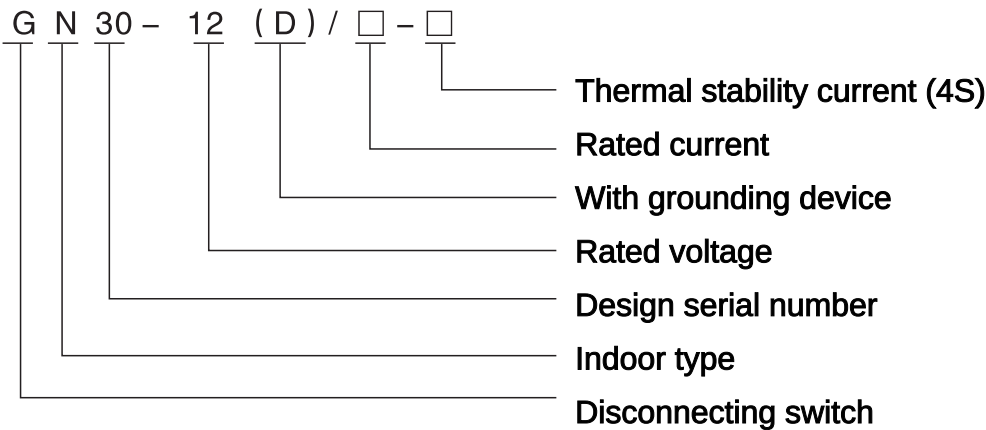
I. Product Overview

The GN30-12 type rotary indoor high-voltage disconnecter is a new type of rotary contact disconnecter. Its main structure consists of two sets of insulators and contacts fixed on the upper and lower planes of a three-phase common base frame. The switch is closed and opened by rotating the contact blades.

The GN30-12D type switch is based on the GN30-12 type switch with the addition of a grounding switch, which can meet the needs of different power systems. This product features a compact design, small footprint, strong insulation, and easy installation and adjustment. Its performance meets the requirements of GB1985-89 "Grounding Switches for AC High-Voltage Disconnecting Switches" and is suitable for indoor power systems with a rated voltage of 10 kV AC 50 Hz and below, used for switching circuits when there is voltage but no load. It can be used in conjunction with high-voltage switchgear or independently.



II. Model Number Meaning



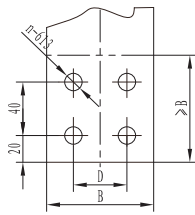
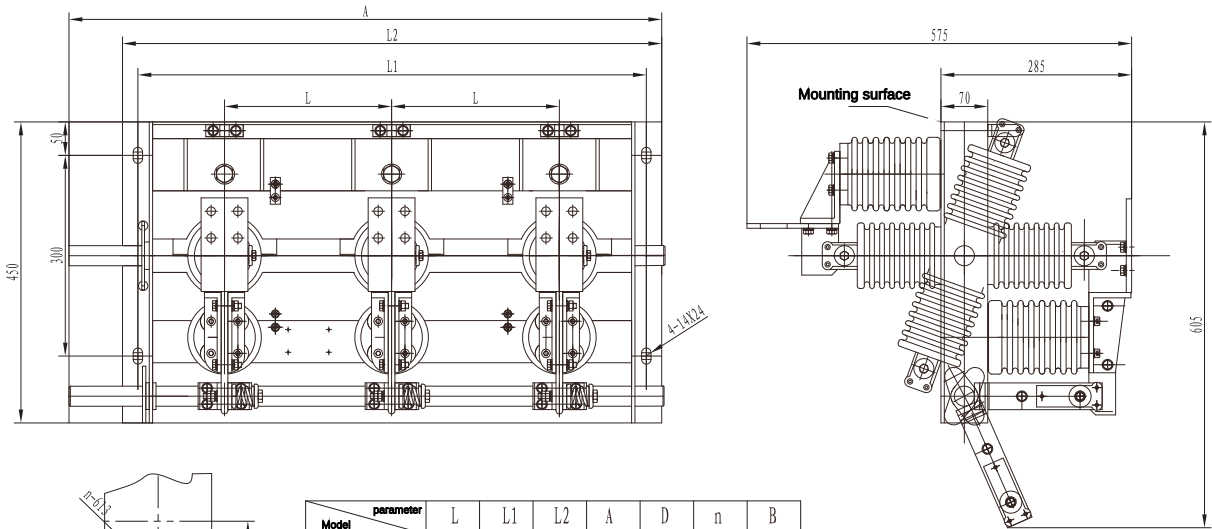
III. Environmental Conditions for Use

- Altitude not exceeding 1000 meters.
- Ambient air temperature: Upper limit +40°C; Lower limit -10°C.
- Relative humidity: Daily average not exceeding 95%; Monthly average not exceeding 90%.
- Seismic intensity not exceeding 8 degrees.
- Locations free from severe dust, chemical corrosiveness, and explosive substances.
- Locations free from frequent and severe vibrations.

IV. Technical Data

Darameter \ Model		GN30-12/400-12.5		GN30-12/630-20		GN30-12/1000-31.5		GN30-12/1250-31.5	
		GN30-12D/400-12.5		GN30-12D/630-20		GN30-12D/1000-31.5		GN30-12D/1250-31.5	
Rated voltage (kV)		10							
Maximum voltage (kV)		11.5							
Rated current (A)		400		630		1000		1250	
Thermal stability current (kV)		12.5		20		31.5			
Thermal stability time (s)		4							
Dynamically stable current (KA)		31.5		50		80			
Rated insulation level	Rated impulse voltage (kV)					75			
	1-minute power frequency withstand voltage (KV)					42			

V. External Installation Dimensions



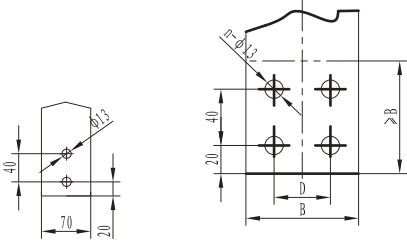
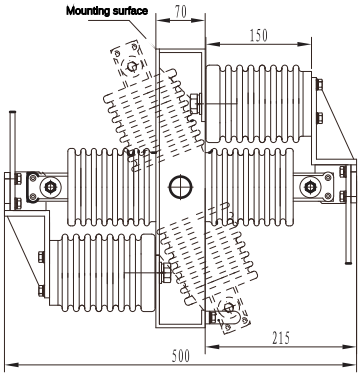
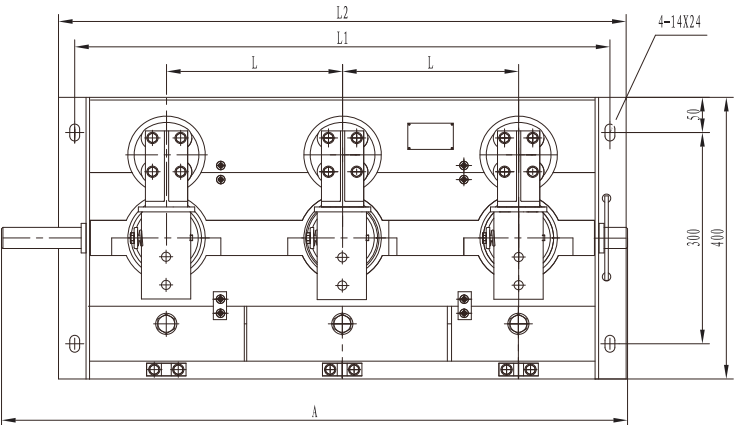
Terminal blocks

parameter		L	L1	L2	A	D	n	B
Model								
GN30-12D I / 630		210	680	726	820	0	2	45
		230	720	766	860	0	2	45
		250	760	806	900	0	2	45
GN30-12D I / 1000, 1250		210	680	726	820	40	4	80
		230	720	766	860	40	4	80
		250	760	806	900	40	4	80

Upper isolation shape and installation dimensions

GN30-12D I / 630-1250

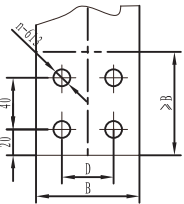
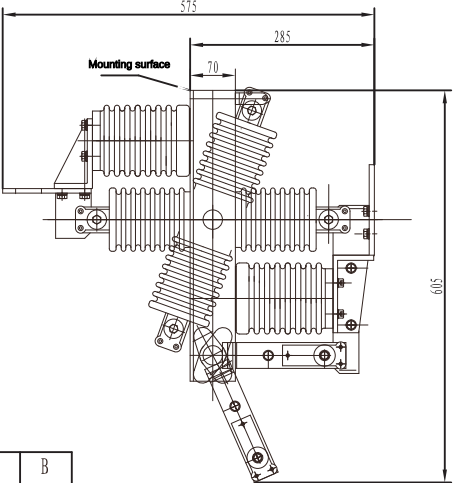
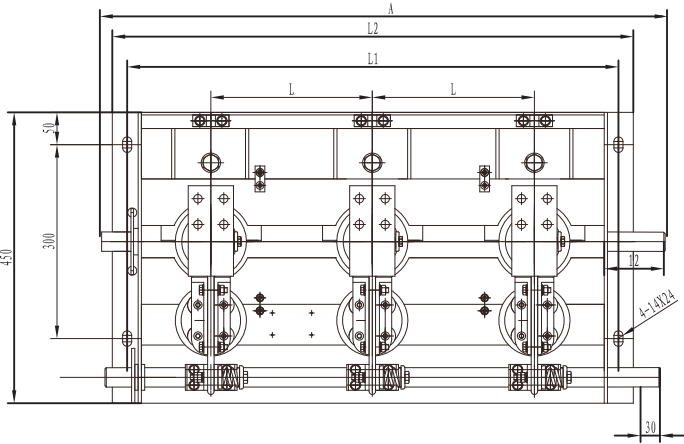
V. External Installation Dimensions



Terminal blocks

Parameter		L	L1	L2	A	D	n	B
Model								
GN30-12/630	210	680	726	820	0	2	45	
	230	720	766	860	0	2	45	
	250	760	806	900	0	2	45	
GN30-12/ 1000, 1250	210	680	726	820	40	4	80	
	230	720	766	860	40	4	80	
	250	760	806	900	40	4	80	

Lower isolation profile and mounting hole dimensions drawing
GN30-12/400-1250



Terminal blocks

Parameter		L	L1	L2	A	D	n	B
Model								
GN30-12D I / 630	210	680	726	820	0	2	45	
	230	720	766	860	0	2	45	
	250	760	806	900	0	2	45	
GN30-12D I / 1000, 1250	210	680	726	820	40	4	80	
	230	720	766	860	40	4	80	
	250	760	806	900	40	4	80	

Lower isolation profile and mounting hole dimensions drawing
GN30-12D I / 630-1250

VI. Ordering Instructions

- When ordering this switch, please specify the model, rated voltage, rated current, and other technical data.
- Special requirements can be discussed with the manufacturer.