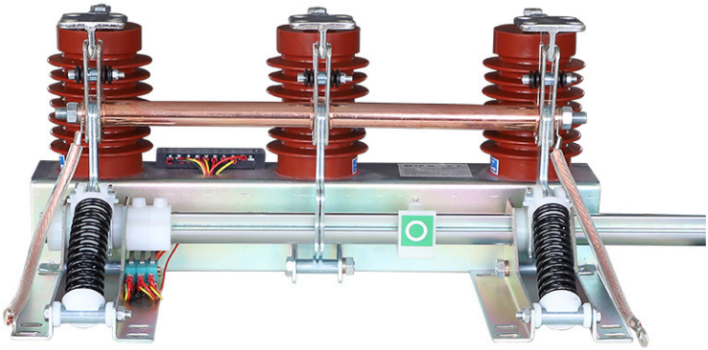


JN15-JN17-JN22B

Indoor high-voltage AC grounding switch

Installation and Operation Manual

1.Product overview

JN type series indoor-earth switches (hereinafter referred to as Next And switches)is the market needs a new design earth switches. Appli-ble to indoor 3~40.5kV three-phase exchanges 50(60)Hz and the frequency of the electricity system High-Vol Switches Cabinets matching models used as a high-Vol electrical equipment can be checked When gro-unded. The simple structure of the earth switches unded. The simple structure of the earth switch convenience and moving good thermal stability.

2.Basic parameters

model	rated working voltage(kV)	rated current term yields (kA)	rated current peak forces (kA)	a short-circuit currents (kA)	the whole wave of shock voltage	The circuit-frequency impatient(kV)	hours after leaving gaps distance not not less than (mm)	note
JN15-rated voltage/31.5 series of	3.6	31.5	80	80	75	42	125	See for structure and dimensions Appendix 1
	7.2	31.5	80	80	75	42	125	
	12	31.5	80	80	75	42	125	
	24	31.5	80	80	125	68	180	
JN17-rated voltage/40 series of	3.6	40	100	100	75	42	125	See for structure and dimensions Appendix 2
	7.2	40	100	100	75	42	125	
	12	40	100	100	75	42	125	
	24	40	100	100	125	68	180	
JN17-rated voltage/50 series of	3.6	50	125	125	75	42	125	See for structure and dimensions Appendix 3
	7.2	50	125	125	75	42	125	
	12	50	125	125	75	42	125	
	24	50	125	125	125	68	180	
JN22B-40.5/31.5 series of	40.5	31.5	80	80	185	95	300	See for structure and dimensions Appendix 4

3、Environment

3.1 The following application envirnment;

3.1.1 altitude of no more than 1000 meters;

3.1.2 environmental temperature no higher than +40℃，

–10℃ not below;

3.1.3 The average relative humidity of not more than 95%, on average less In 90%;

3.1.4 seismic intensity not more than eight degrees.

3.2 The following places are not appropriate:

3.2.1 Availability has serious implications for the existence of installation sites and earth switches insulation Conductive capacity gas, steam, chemical precipitation, smoke, Dust explosion erosion of dirt and other material;

3.2.2 Non installation sites exist frequent violent shock.

4、Structure and operating principles

4.1 The main structure Earth switches form the main structure, grounded knife assembly, static contactu, Fu Ganqi, axie, Sham arm, Yahuang, conductive insulator, soft links(see appendix 1). Gradles into the thin metal welding, bending components and the remainder Assembled parts.

4.2 operating principles When they move the machinerv to operate switch on the earth switches. the role of moment Principal overcome resistance rule 5, 7 to stop along the switch in the direction of rotation Po and Grounded knife on the plane through Yahuang 8 9dead point Yahuang release of energy, The rapid switch in the earth switches in the switch in position, grounded knife components, 9 Diexing spring–loaded knife through the grounded Hejing contactu 6 flange Department (incision) Solid and reliable access. Sub–gate operation, the role moment to overcome the moment and shells around 5 Huang edge to Sham arm 7 pm gates along the direction of motion, and grounded knife 9 Yahuang 8 through death point Yahuangchuneng end. For the next switch on. The switch on the earth switches the operating speed and power and speed–operation Guan.

5、Installation and maintenance

5.1 users opening inspection;

5.1.1 Single random accessories and documents are complete;

5.1.2 check whether the products were damaged in transit;

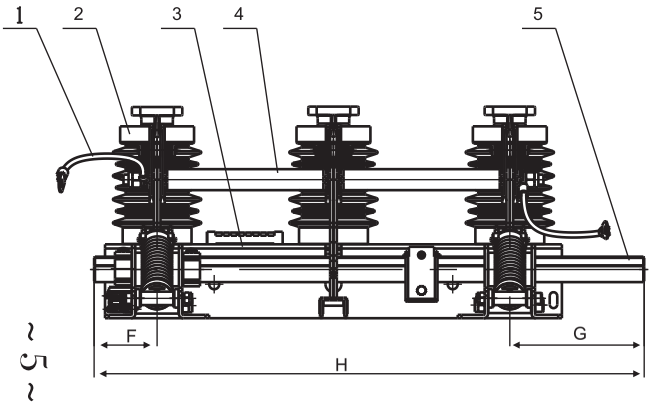
5.2 earth switches to horizontal, vertical, oblique installed.

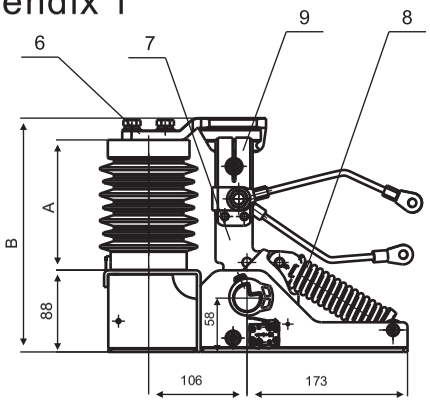
5.3 users may need to adujst the location of Sham arm or train bodies (left or right), Uses two methods are part of the adjustment screw positioning, the first beat with a wooden axle-Tau To the loc.

6、Orders notes:

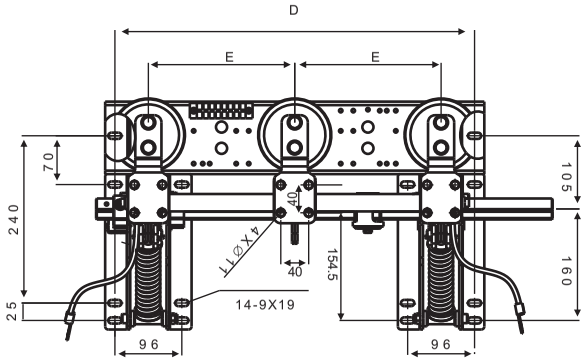
The wide scope of the earth switches, if the user specified models and products Specifications, installation operation Po stop location(left or right), is charged that the allocation of loading Purchase, if users special requirements, orders, rrquests made in advance in consultation with the owners.

Earth switches major structures:





1、Soft link 2、Sensors 3、Cradles 4、Conductive flow 5、Axle 6、Static contactu 7、Sham arm 8、Compression spring 9、Grounded knife assembly



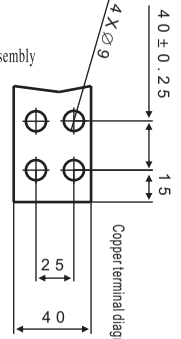
JN15 series installation opening table:

type	E	F	G	H	D
JN15-□/31.5-150	150	75	160	535	396
JN15-□/31.5-165	165	75	160	565	426
JN15-□/31.5-180	180	75	160	595	456
JN15-□/31.5-200	200	50	185	635	496
JN15-□/31.5-210	210	50	185	655	516
JN15-□/31.5-220	220	50	185	675	536
JN15-□/31.5-230	230	50	185	695	556
JN15-□/31.5-250	250	50	185	735	596
JN15-□/31.5-275	275	50	210	810	646

note: □=12,A=140, B=252。 □=24,A=225, B=337。

See appendix 1

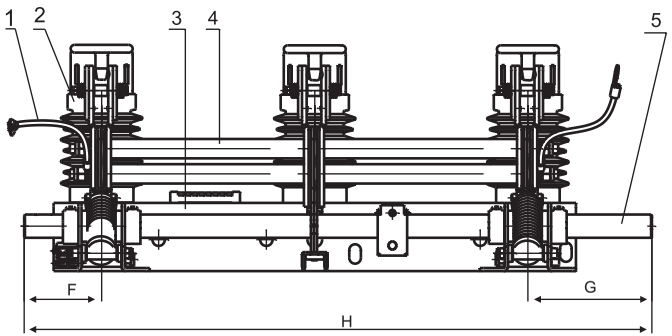
Note: Only used for phase spacing below 180

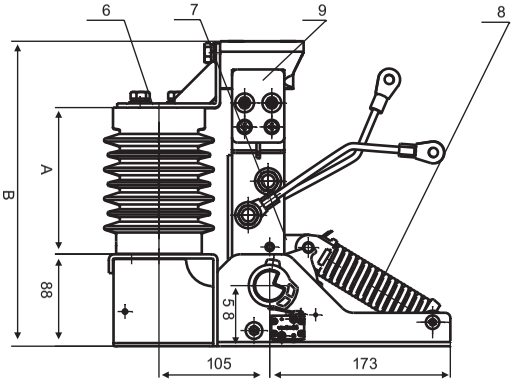


Copper terminal diagram

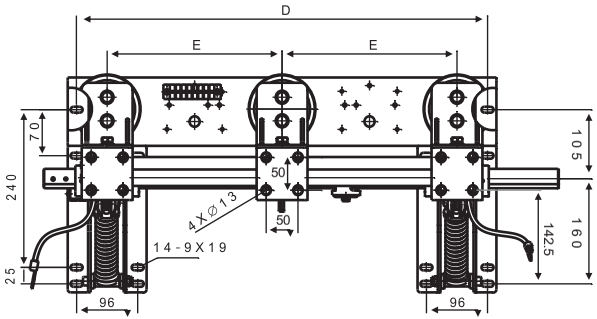
See appendix 2

Earth switches major structures:





1、Soft link 2、Sensors 3、Cradles 4、Conductive flow 5、Axle 6、Static contactu 7、Sham arm 8、Compression spring 9、Grounded knife assembly



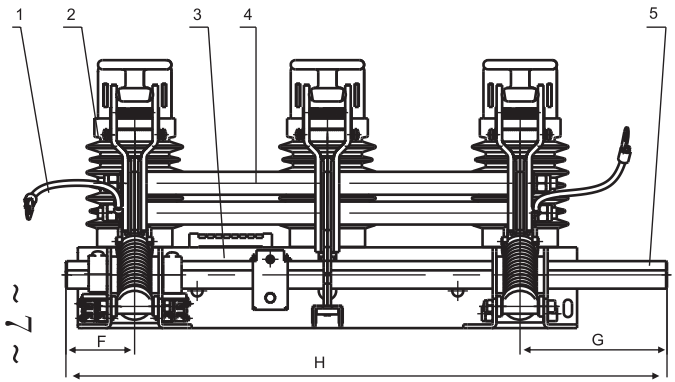
JN17/40 series installation opening table:

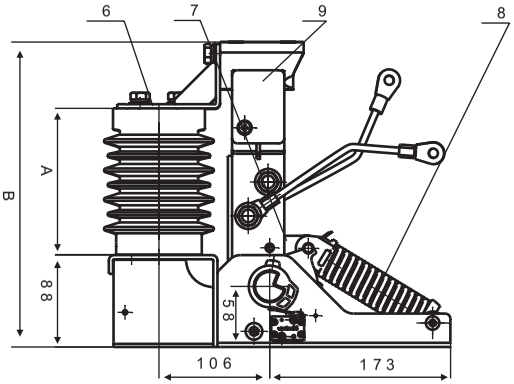
type	E	F	G	H	D
JN17-□/40-210	210	50	185	655	516
JN17-□/40-220	220	50	185	675	536
JN17-□/40-230	230	50	185	695	556
JN17-□/40-250	250	50	185	735	596
JN17-□/40-275	275	50	210	810	646

note:□=12,A=140, B=293。 □=24,A=225, B=378。

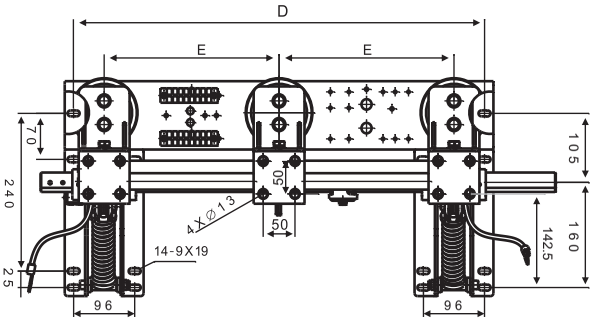
Earth switches major structures:

See appendix 3





1、Soft link　2、Sensors　3、Cradles　4、Conductive flow　5、Axle　6、Static contactu　7、Sham arm　8、Compression spring　9、Grounded knife assembly



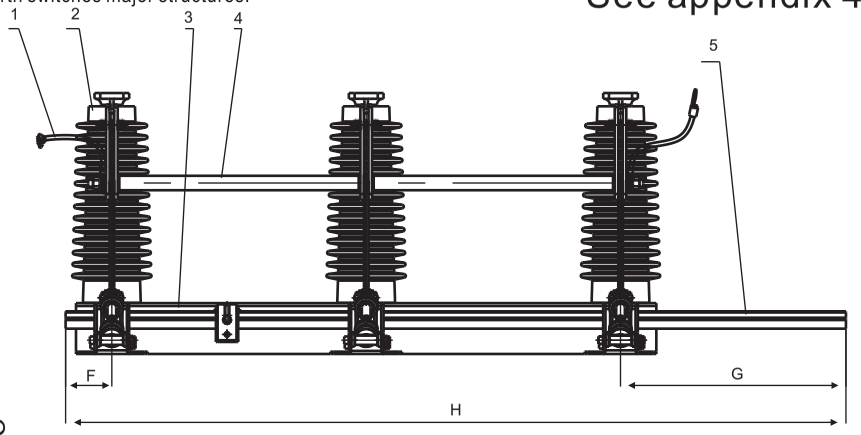
JN17/50 series installation opening table:

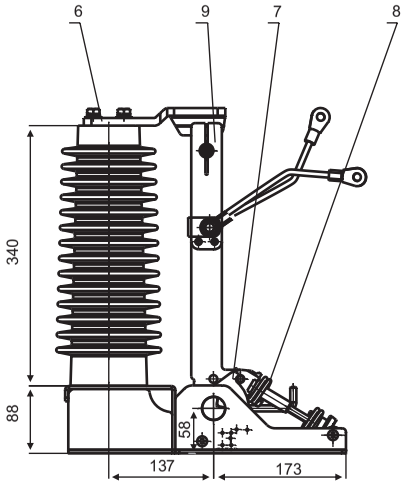
type	E	F	G	H	D
JN17-□/50-210	210	50	185	655	516
JN17-□/50-220	220	50	185	675	536
JN17-□/50-230	230	50	185	695	556
JN17-□/50-250	250	50	185	735	596
JN17-□/50-275	275	50	210	810	646

note:□=12,A=140, B=293。　□=24,A=225, B=378。

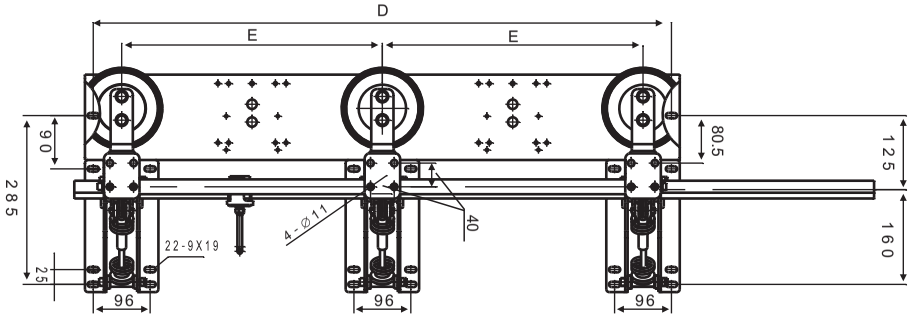
Earth switches major structures:

See appendix 4





1、Soft link 2、Sensors 3、Cradles 4、Conductive flow 5、Axle 6、Static contactu 7、Sham arm 8、Compression spring 9、Grounded knife assembly



JN22B series installation opening table:

type	E	F	G	H	D
JN22B-40.5/31.5-280	280	80	430	1070	656
JN22B-40.5/31.5-300	300	80	390	1070	696
JN22B-40.5/31.5-350	350	80	350	1130	796
JN22B-40.5/31.5-360	360	80	330	1130	816
JN22B-40.5/31.5-400	400	80	430	1310	896
JN22B-40.5/31.5-440	440	80	390	1350	976