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High Voltage Switchgear Components and Accessories - H1-GP-201812



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TO THE FUTURE**

- High Voltage Switchgear
Components and Accessories



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global procurement & manufacture

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LIGHTS UP THE WAY
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- *Environment Friendly*
- *Save Energy and Resource*
- *One-Stop Solutions Concept*
- *Customer Value Increasing*



About Us

Green Power promotes environmental awareness, and aims to create unprecedented happiness and wealth for our investors, employees, clients and partners. By focusing in the mid-to-high voltage and low voltage field, and professionally working on R&D, manufacturing, marketing and service of high-end green intelligent switchgears, equipments and products. GreenPower sets to become a well-respected global company in the power industry.

GreenPower, is jointly established by a number of state-owned excellent industrial electrical professional manufacturers, we committed to meet the procurement needs of clients. It is a professional procurement service provider with entity of industrial electrical.

GreenPower provides ONE-STOP solutions service for all customers in the International area. It is located in the time-honored electrical industrial city, a collection of world-class brand of industrial electrical products, excellent brand of domestic electrical products as the basis.

Innovative business philosophy, strong professional supply team, expert technical guidance, advanced Information network management platform, fast logistics, which makes GreenPower as your procurement expert by your side.

GreenPower adheres to its own brand and multi-brand integration, marketing differentiated development strategy. The products involving low voltage, medium voltage and high voltage transmission and distribution products and industrial automation products.

It covering all aspects of distribution, logistics, warehousing, professional and technical engineering services, systems integration and complete sets of manufacturing. Stable business foundation for cooperation with customers and suppliers, and has established a good reputation to maintain its leading position in the market competition.

Human quests for transcendence, with transcendence we make progress, when the pursuit of unlimited become a belief, our dream began to realize.

Hard-working, dedicated GreenPower people, will be adhering to its past glory, beginners mind, let go sailing, to face the fierce competition in the future, and always help customers make the best choice, and strive to become the best and most reliable procurement service provider in the field of industrial electrical.

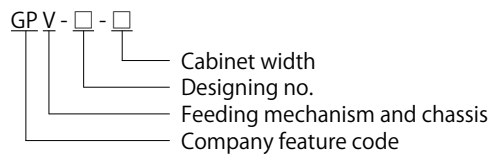


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Feeding Mechanism for GPN1-40.5kV Switchgear

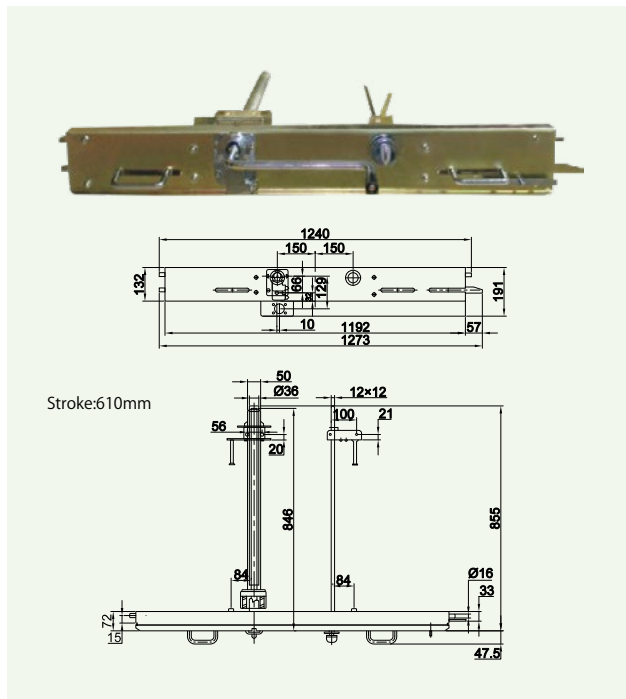
Type and model meaning



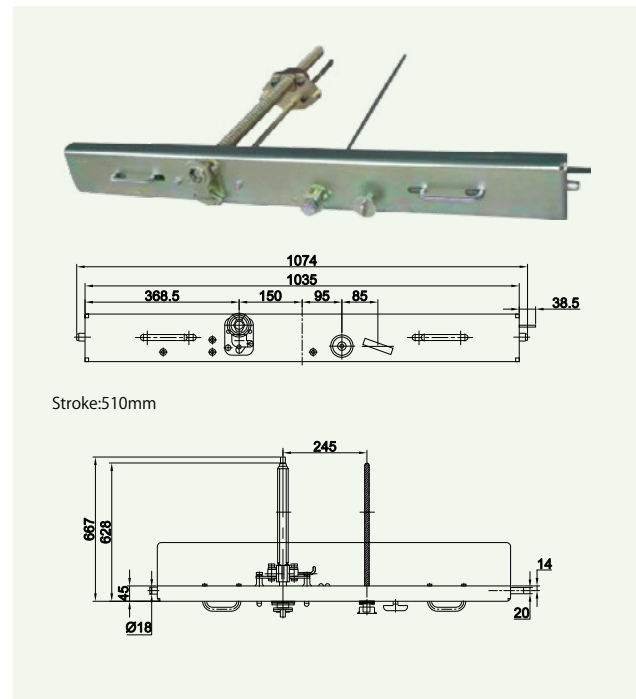
Usage

This feeding mechanism is the accessories for GPN1-40.5 switchgear, for feeding the movable parts of GPVN-40.5 series circuit breaker, isolation handcars and trolleys.

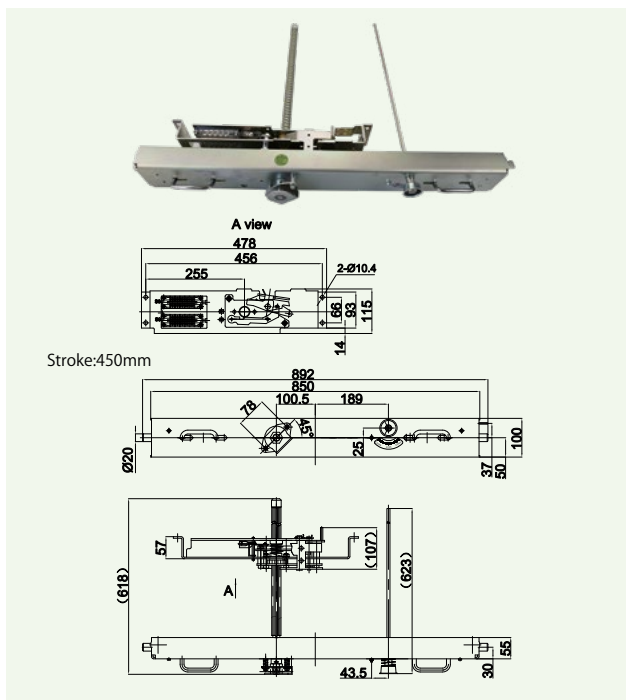
GPV-1-1400 Feeding mechanism (For GPVN-40.5)



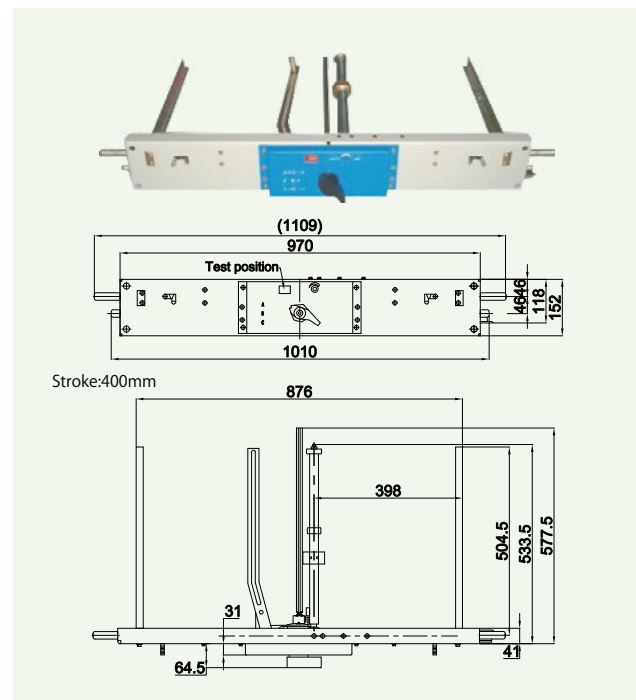
GPV-2-1200 Feeding mechanism (For GPVN-40.5A)



GPV-3-1200 feeding mechanism (For VD4-40.5 similar type trolley)

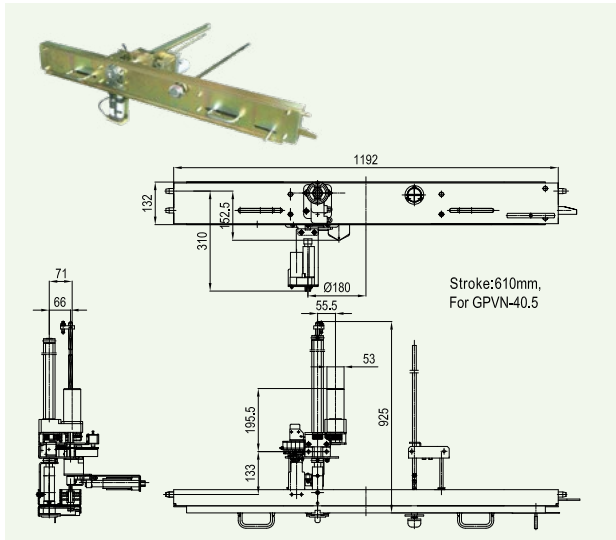


GPV-4-1400 feeding mechanism (For GPVN-40.5B)

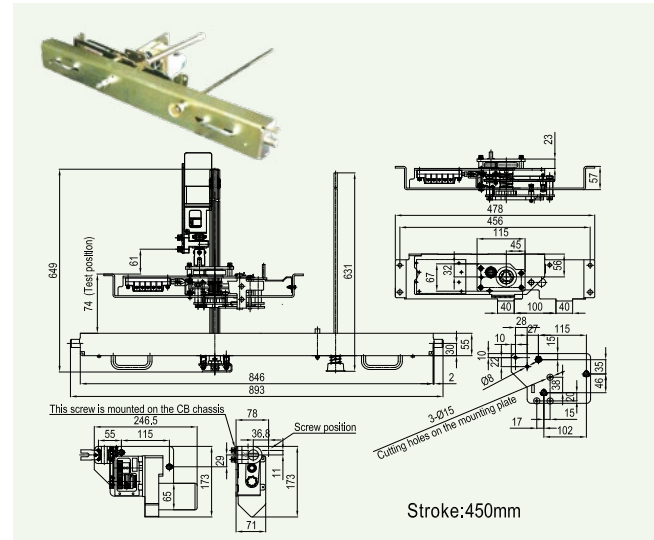


Feeding Mechanism for GPN1-40.5kV Switchgear

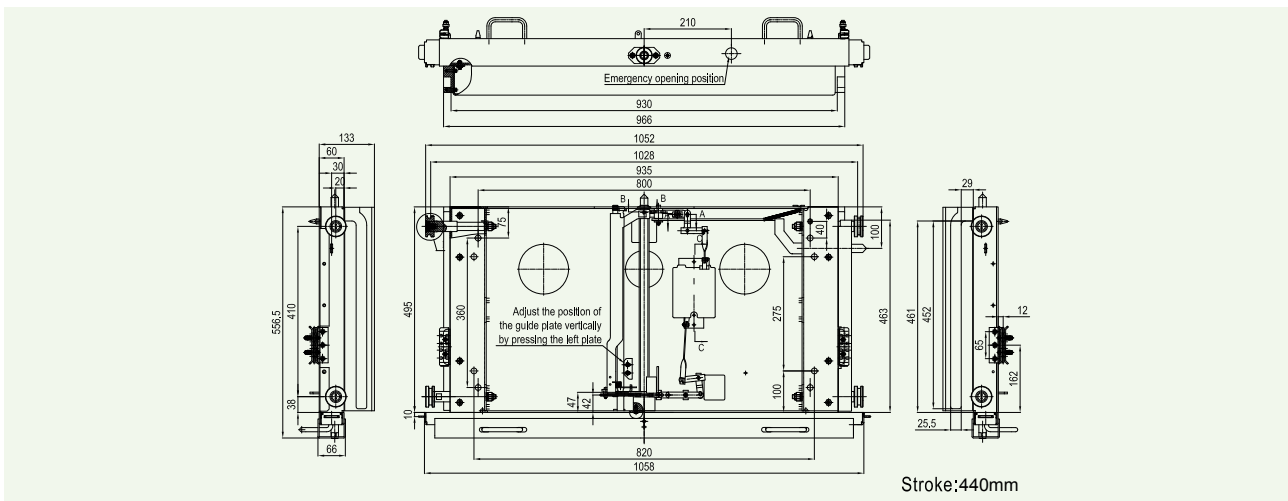
● GPV-1D-1400 Motorized feeding mechanism(3VA3 mechanism)



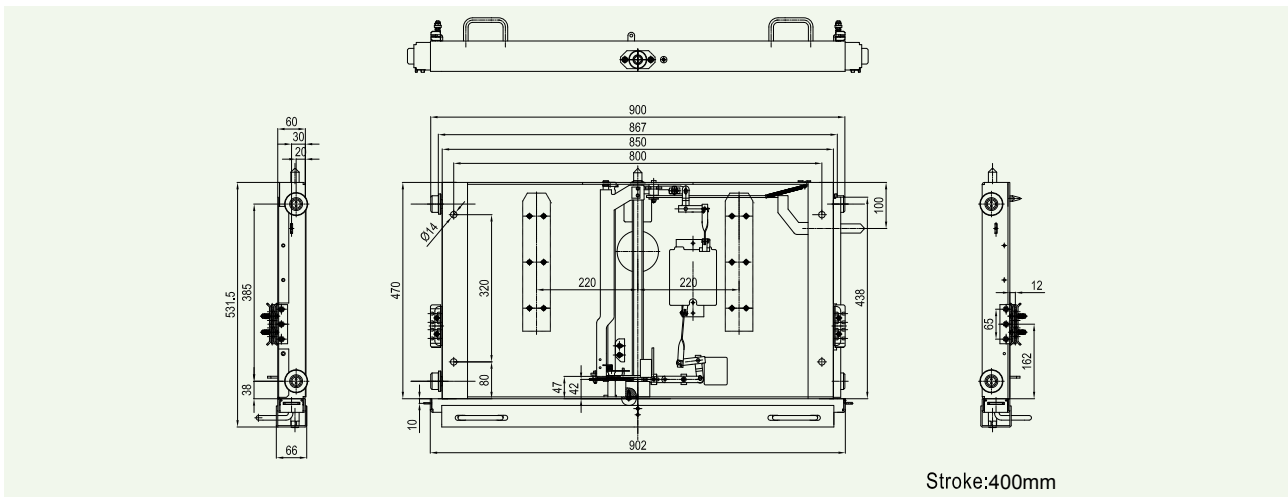
● GPV-3D-1200 Motorized feeding mechanism(VD4 type)



● GPV-40.5-1200 VCB chassis (middle-placed type)

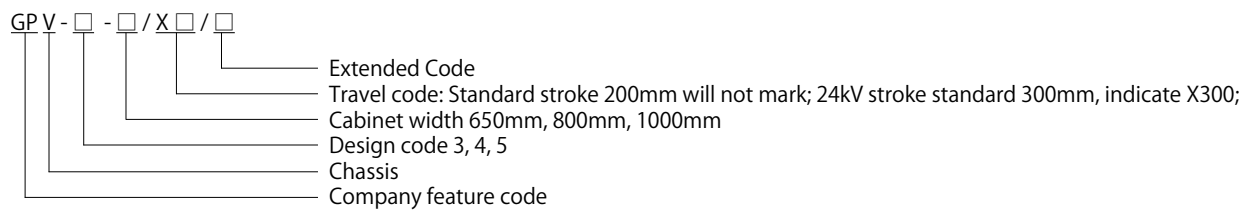


● GPV-40.5-1200-X400S VCB Chassis (middle-placed type)



Chassis for GPN1-12/24kV Switchgear

GPV chassis model and meaning

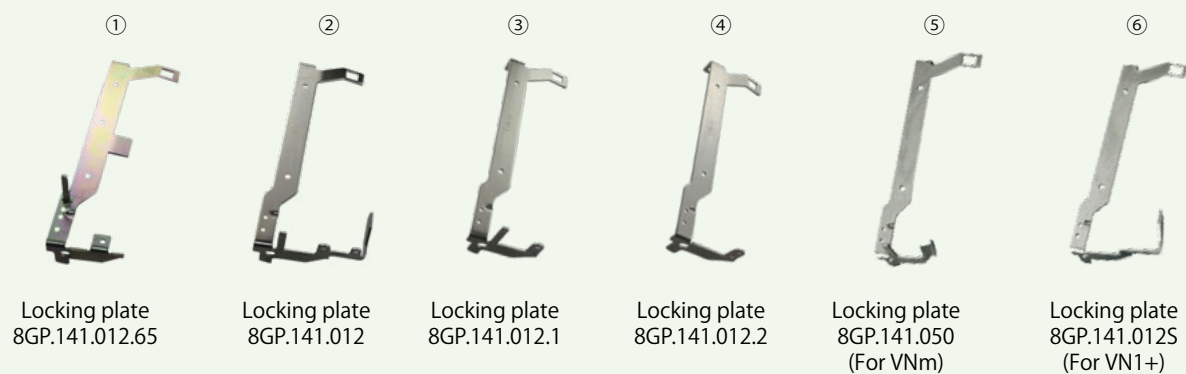


Usage and function

The chassis is mainly for withdrawable switchgear equipment as installing the circuit breakers, transformers and other components, to pushed in and withdraw, as auxiliary operations of components connected with the bus. When the internal structure of chassis and circuit breakers working together with other interlocks of the cabinet to meet IEC62271-100/GB3906 "Five Safety" interlock requirements, specific functions are as follows:

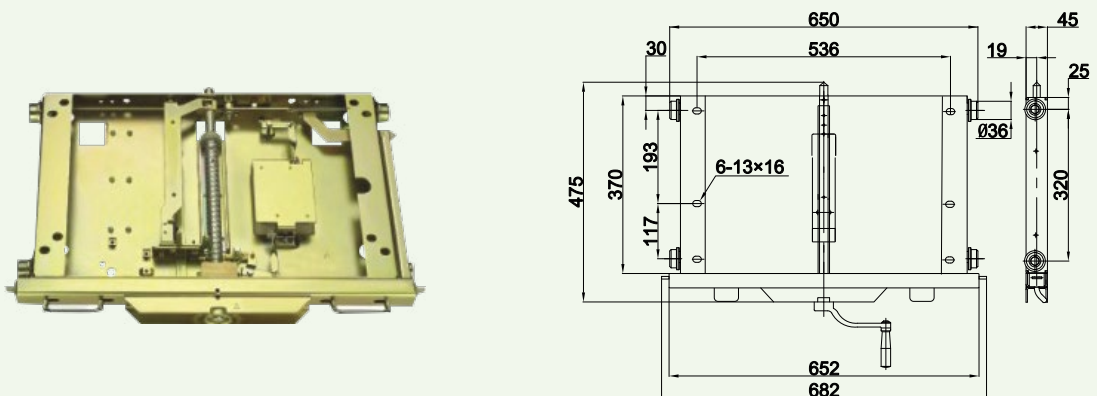
1. Handcart only in test / disconnected or working position, the circuit breaker can switch on, and after the circuit breaker switches on, the handcart cannot move, so as to prevent the situation of misconnection the isolating contacts when on load.
2. The handcart in the working position or leave the test / disconnected position about 10mm, earthing switch cannot switch on, to prevent misconnection the earthing switch when on live.
3. When the earthing switch is closed, the handcart cannot move from the test / isolated position to the working position, to prevent the earthing switch in the closing position to closing the circuit breaker.
4. After the chassis into the cabinet, once it leave the test / isolated position, the handcart cannot be withdrawn from the cabinet.

Locking plate arranged for chassis

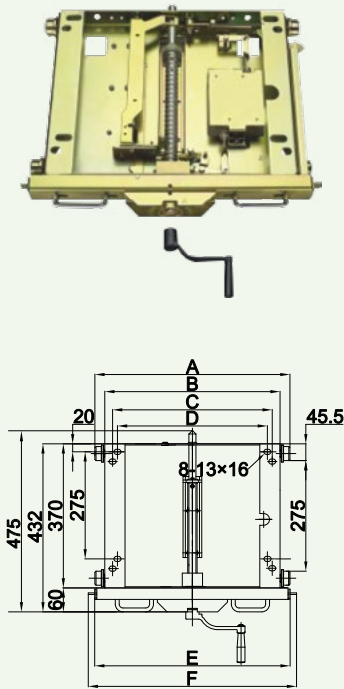


Note: GPV chassis has more than 6 kinds of locking plate for option, Standard with 8GP.141.012.2, if need other kinds of locking plate, please specify when ordering.

GPV-3-800 Chassis outline and installation dimension

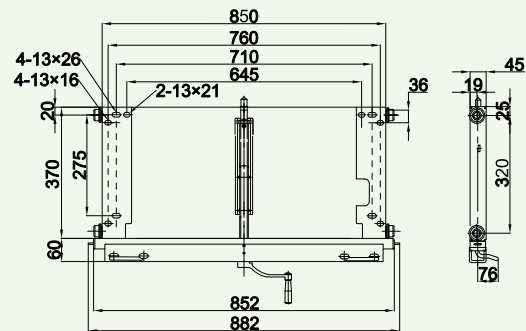
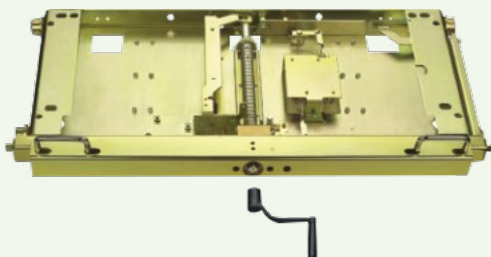


GPV- 4- □ Chassis outline and installation dimension

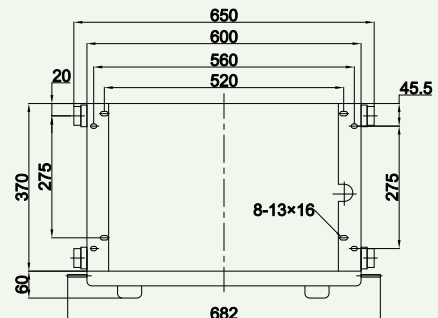
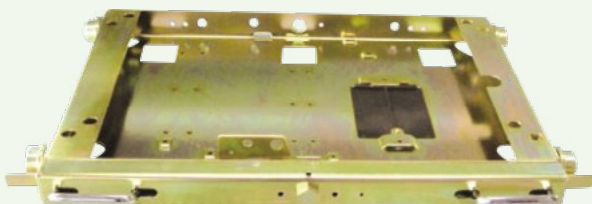


Model	A	B	C	D	E	F
GPV-4-650	500	450	410	385(Installation hole 13X30)	502	532
GPV-4-750	601	550	510	470	602	632
GPV-4-800	650	600	560	520	652	682
GPV-4-840	690	640	600	560	692	722
GPV-4-900	750	700	660	620	752	782
GPV-4-1000	850	800	760	720	852	882
GPV-4-1200	1050	1000	960	920	1052	1082

GPV-4-1000/T Chassis outline and installation dimension

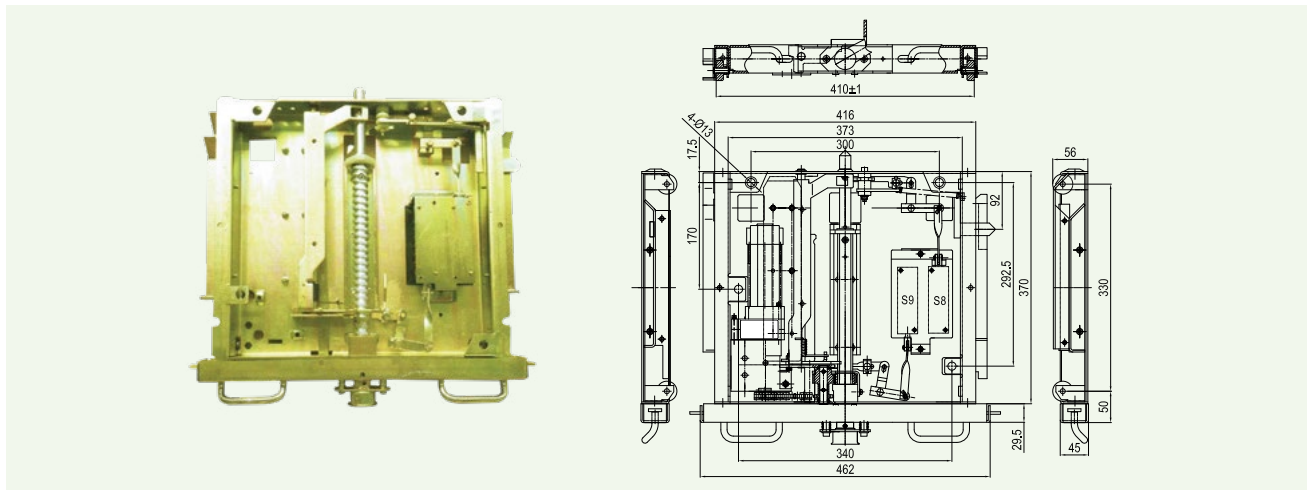


GPV-4-800/XC2 Chassis (For down layer use)outline and installation dimension

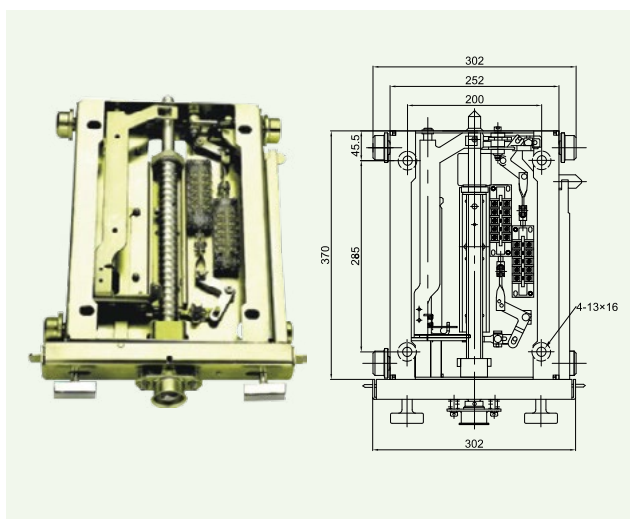


Chassis for GPN1-12/24kV Switchgear

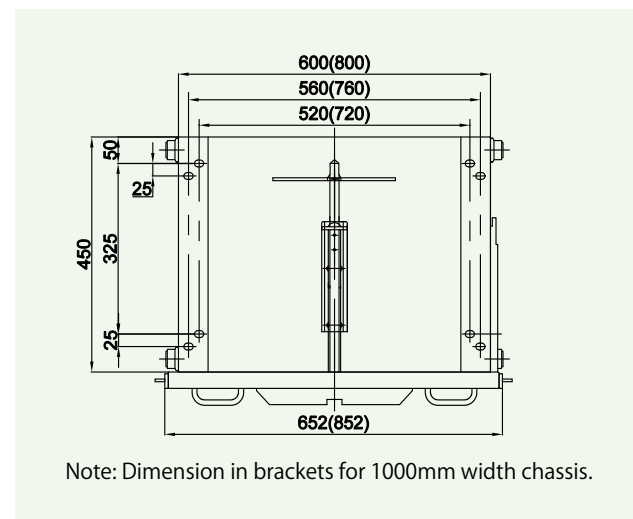
GPV-max-550 Chassis and GPV-max-550/DD3 Motorized Chassis



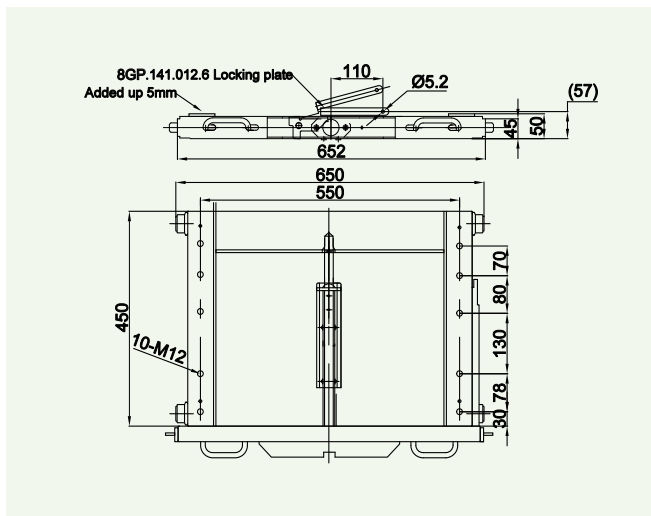
GPV-4-450 Chassis



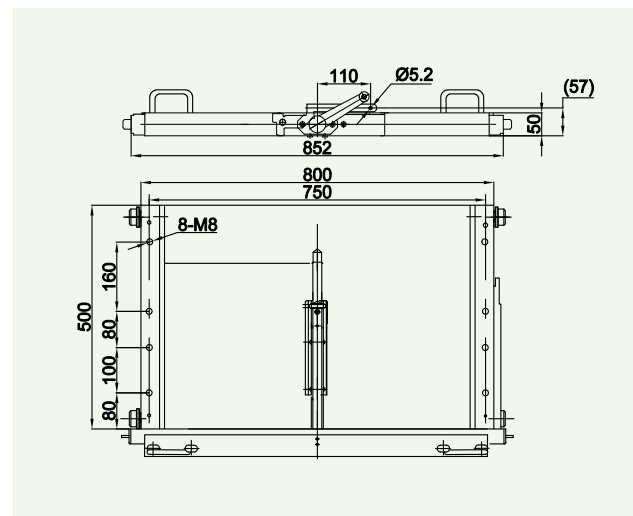
GPV-4-⁸⁰⁰/₁₀₀₀/YDF Deepened chassis



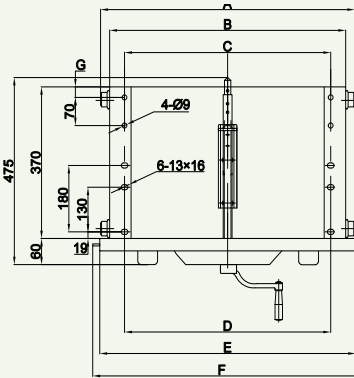
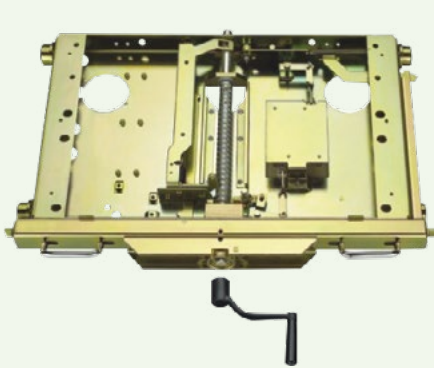
GPV-4-800/YH3 Deepened chassis



GPV-4-1000/YH3 Deepened chassis



GPV-5- □ Chassis (For VBI mechanism)



Model	A	B	c	D	E	F	G
GPV-5-800	650	600	520	520	652	682	25
GPV-5-1000	850	800	720	700	852	882	45

Note:

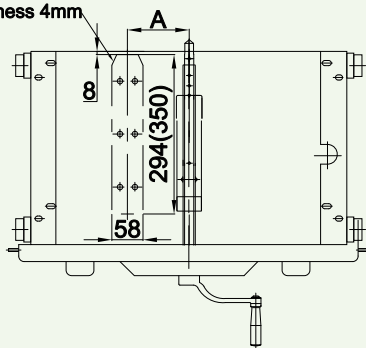
1. Above deepened chassis can match with 3AH, VN12, VN28, VN65 etc. fixed circuit breaker modifying to handcart type.
2. GPV-4⁸⁰⁰/₁₀₀₀/YH3 with locking plate
8GP.141.012.6 if need other locking plate, please specify when ordering.

Earthing way of the chassis

Earthing bus

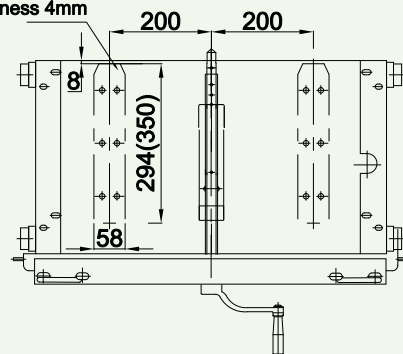
Earthing bus GPV- □ -1000

Earthing bus thickness 4mm



Model	A
GPV- □ -650	100
GPV- □ -800	160

Earthing bus thickness 4mm

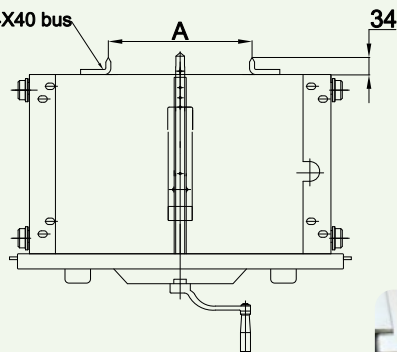


Note: dimensions in brackets for 24kV chassis

Earthing contact installation dimension

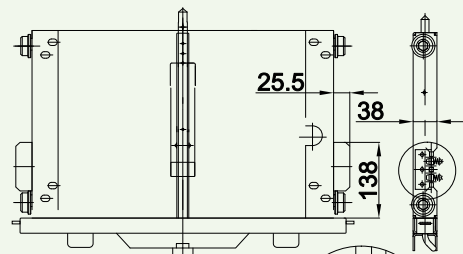
Earthing contact

Earthing contact 4X40 bus

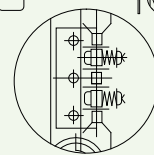


Model	A
GPV- □ -650	180
GPV- □ -800	296
GPV- □ -1000	496

Earthing clamp



Earthing clamp



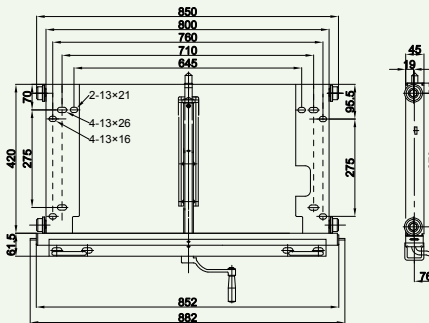
Chassis for GPN1-12/24kV Switchgear

● GPV-4-1000/24 deepened type 24kV chassis



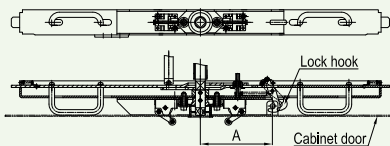
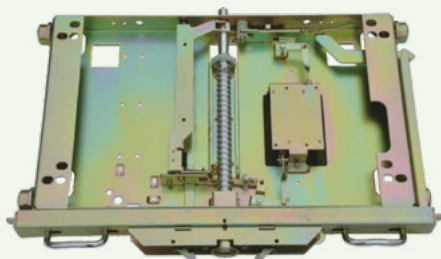
GPV-4-1000/24 deepened type 24kV chassis

Only change the stroke of the original standard 24kV chassis to 300mm, after it changed to 300mm, the screw guide of original 300 chassis cannot be installed, only deepened the frame deepened 50mm for installation.
24kV deepened chassis is not only improve the performance of itself, it is also plays a significant role on the stability of center of gravity of the circuit breaker.



GPV-4-1000/24 deepened 24kV chassis installation dimension.

● Special function chassis: GPV- □□ - □ /G5 /S5 chassis(12/24kV)



1. GPV- □ - □□ /G5 Chassis

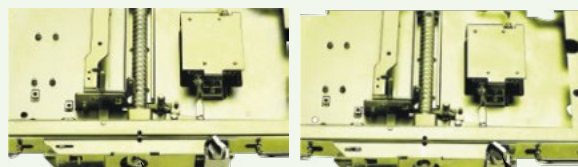
This model of chassis only increased the function of closing door operation, that is, when the door open, you cannot plug the handle into chassis and shake it, only shake when close the door. This interlock function without changes on the cabinet door.

2. GPV- □ - □ /S5 Chassis

This model of chassis added a key lock function on the basis of a, that is, when the handcart leave the test position, the cabinet door is locked, you cannot open, only return to the test position, the door could be open, this interlock function needs changes on cabinet door.

Model	A
GPV- □ -650/S5	101
GPV- □ -800/S5	130
GPV- □ -1000/S5	130

● Special function chassis GPV- □ - □ /2+1 with 2-in 1-out interlock device(12/24kV)



Locking position

Unlock position

Key

General

The interlock device is mainly used to prevent two handcars into the working position in the same time. The main interlock function is: two chassis controlled by a key, any one chassis in the working position, the key cannot be pulled out, the other chassis would not have the key to unlock, the handle cannot be plugged in, chassis cannot shaking, so as to achieve the purpose of preventing it enter the working position.

Ordering notice:

Need this interlock device please add /2+1 after the model, 1 set includes 2 chassis with 1 key.

GPV- □ - □ Chassis ordering notice:

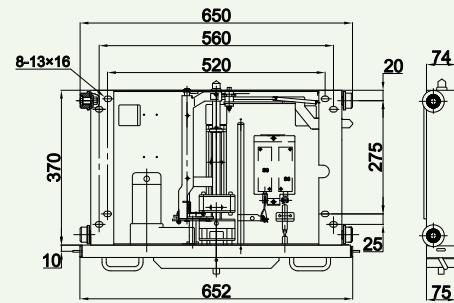
1. Indicating the chassis model, lock plate code, auxiliary switch specifications, grounding methods.
2. Auxiliary switch specification means auxiliary switch specification itself (means specification still not installed on the chassis). Generally has 5 groups, 6 groups' contacts, also available in 10 groups (by 2 auxiliary switch in series connection).
3. 24KV chassis only modify the stroke from 200mm to 300mm, others remain, add /X300 on original model.
4. Any special requirements, please consultation with GreenPower.

Special function chassis

- A. Chassis with voice alerts
Enter into test, working position voice reminder.
Prevent incorrect operation voice reminder.
- B. Chassis with micro-switch
Test, working position plugged in handle, micro-switch transfers.

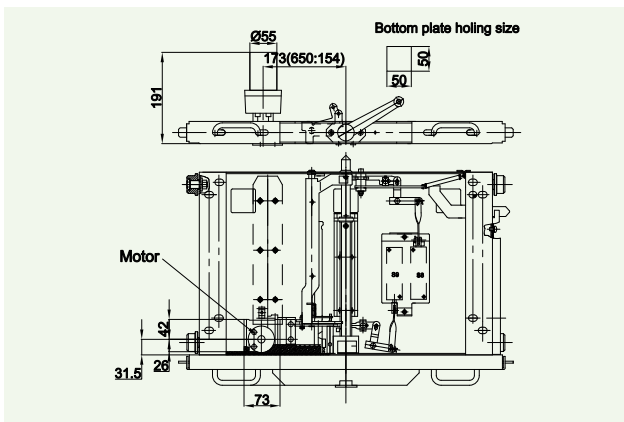
Special function chassis: motorized operation function.

Chassis increased motorized operating functions, which is the necessary hardware infrastructure to realize the intelligent switchgear, procedures, remote control, etc. Electric mechanism by motor vehicle chassis installation is divided into vertical and horizontal structures, both of which are installed in the original chassis dimensions, without changing the shape of the original manual chassis dimensions, interlock function, manual / electric are facilitate to change. GPV-□ / DD2 electric mechanism because the motor is vertical, shall be inserted into the circuit breaker mechanism box, versatility is not strong, but a wide range of motor selection, low prices, and the motor replacement is also convenient. Motor GPV-□ / DD3 electric mechanism for the special micro-motors, use the extra space to install the chassis, do not change the original chassis dimensions, it has strong versatility.

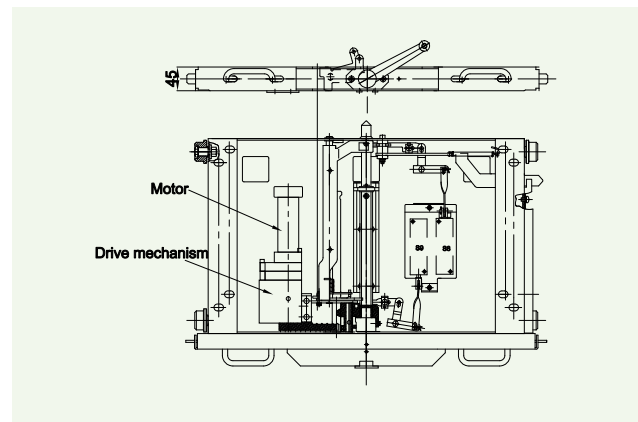


Manual, Electric automatic change
Test, working position with clutch, idling when reach the place.

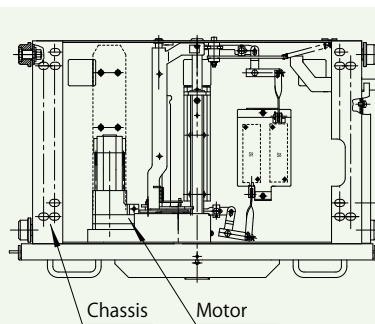
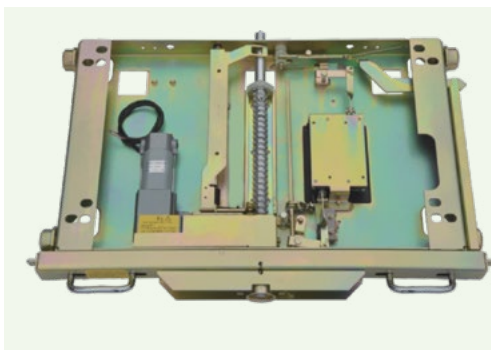
GPV-□ / DD2 electric mechanism chassis



GPV-□ / DD3 electric mechanism chassis

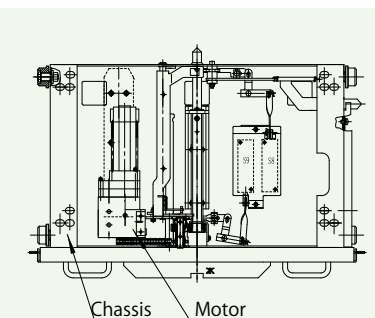


Electric chassis manual priority S



Overview: The manual priority of the electric chassis is to increase the manual priority function based on the original electric chassis. The chassis car adds a micro switch. Associated with the crank operation hole, when the chassis has a manual priority function, the joystick is inserted and the controller button cannot be operated (see Control Circuit for details). When it is necessary to install, add S: GPV-DD4S to the original electric chassis GPV-DD4.

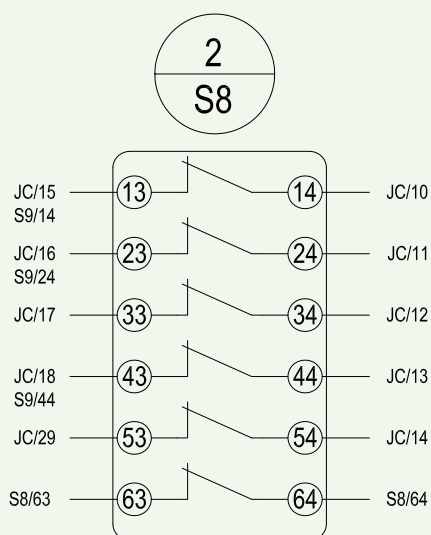
Electric chassis wiring



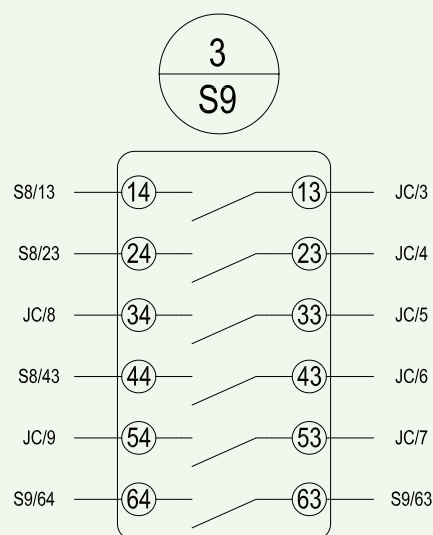
Overview: The model is suitable for the GPV/DD3 (JX) wiring diagram. When the chassis is in the test position, the conventional auxiliary switch (6060) is configured. The reserved length of the wiring is 400mm, the wire is 1mm², and the terminal block is connected with a red pin terminal. Use a black cable tie, the direction of the number tube should be the same, and the wire is wrapped with a winding tube.

Chassis for GPN1-12/24kV Switchgear

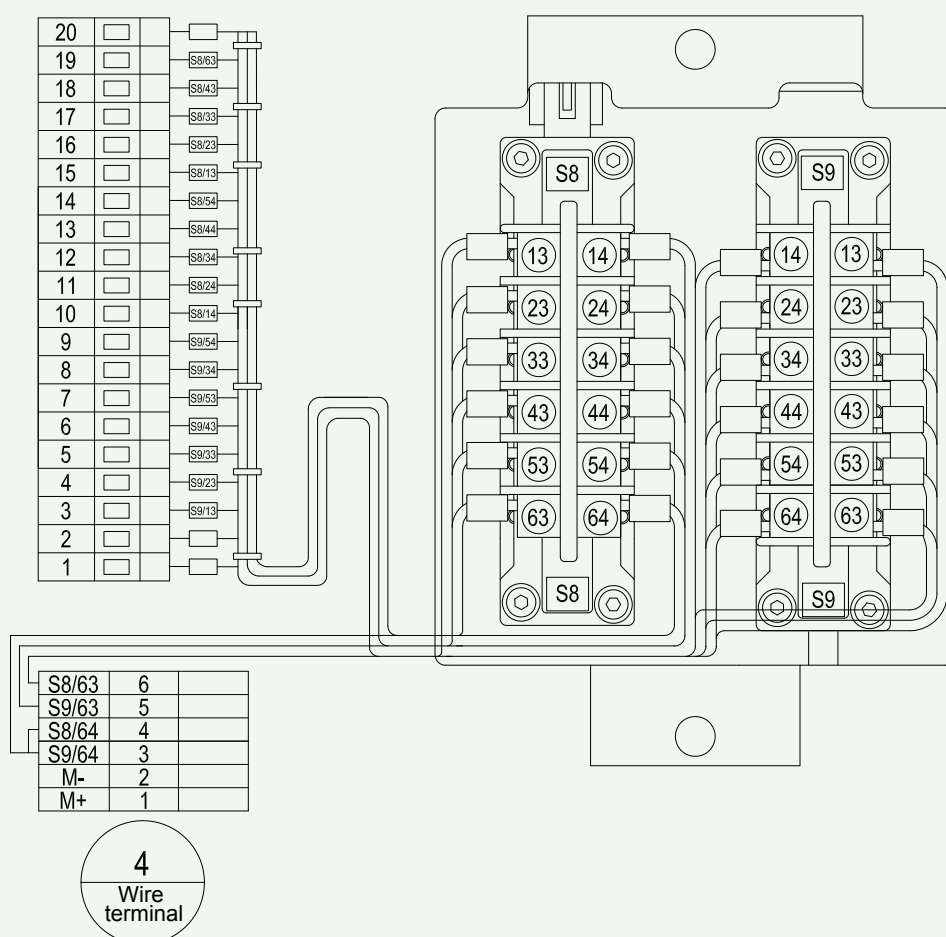
Motorized chassis wiring



Auxiliary switch on test position



Auxiliary switch on working position



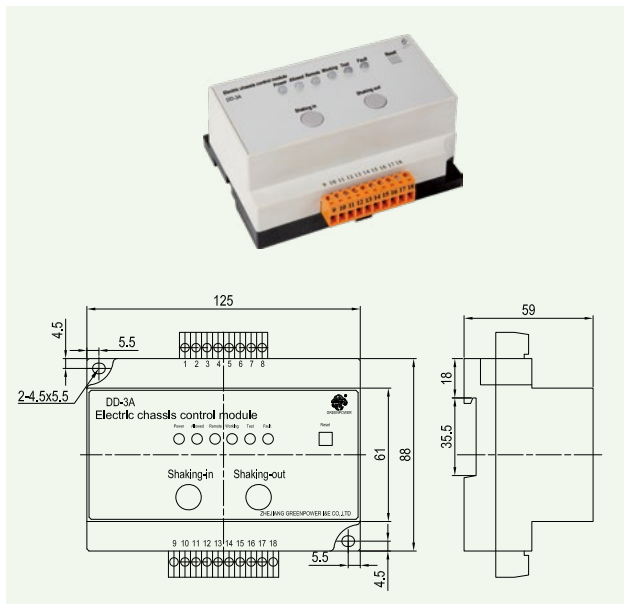
● Matching DD-3A/3B/3C electric trolley control module

Motorized chassis is to provide a drive scheme, and how to control and protect the electric chassis is required with the corresponding control module to realize and meets the requirements, the control module has the following features:

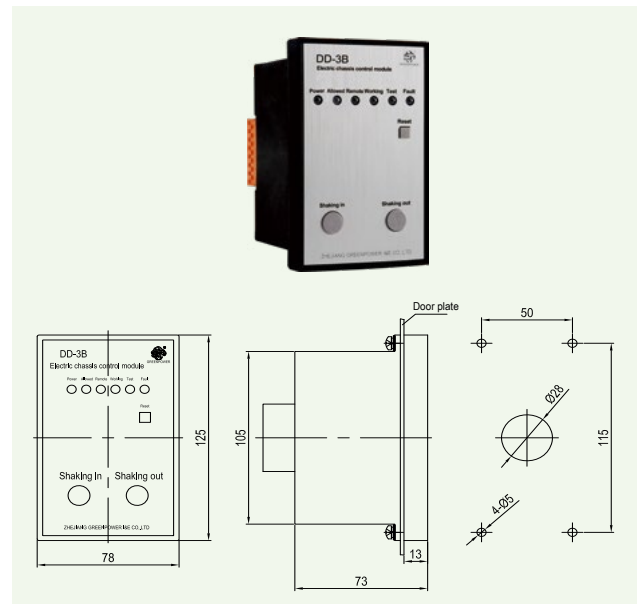
1. Meet the basic control requirements of chassis racking in and shake out, as well as interlock requirement of the circuit breaker, earthing switches, etc.
2. Motor over-current protection, over-current can be adjusted.
3. Overcurrent return function, when the motor is overcurrent, can return to test position, can also choose a half circle return.
4. Overtime protection function, the control module will stop automatically if the chassis into position signal not be detected within a setting time.

Sr. No.	Model	Installed location	Control
1	DD-3A	Installed In the cabinet	Earthing switch
2	DD-3B	Panel surface installed	VCB chassis
3	DD-3C	Installed on the motorized earthing switch.	Earthing switch and VCB chassis 2 in 1

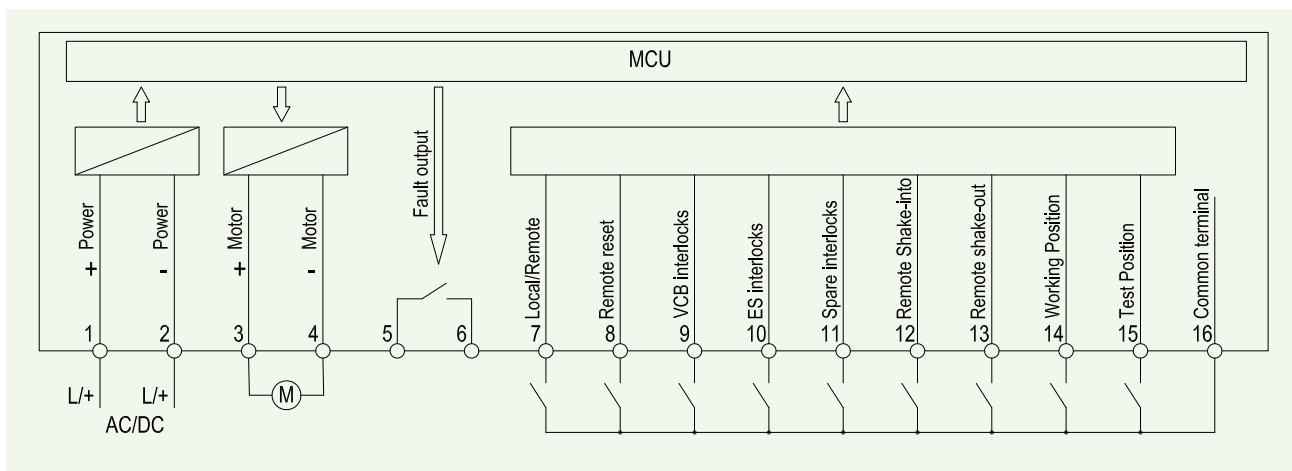
● DD-3A Electric Earthing Switch Controller



● DD-3B Electric VCB Chassis Controller

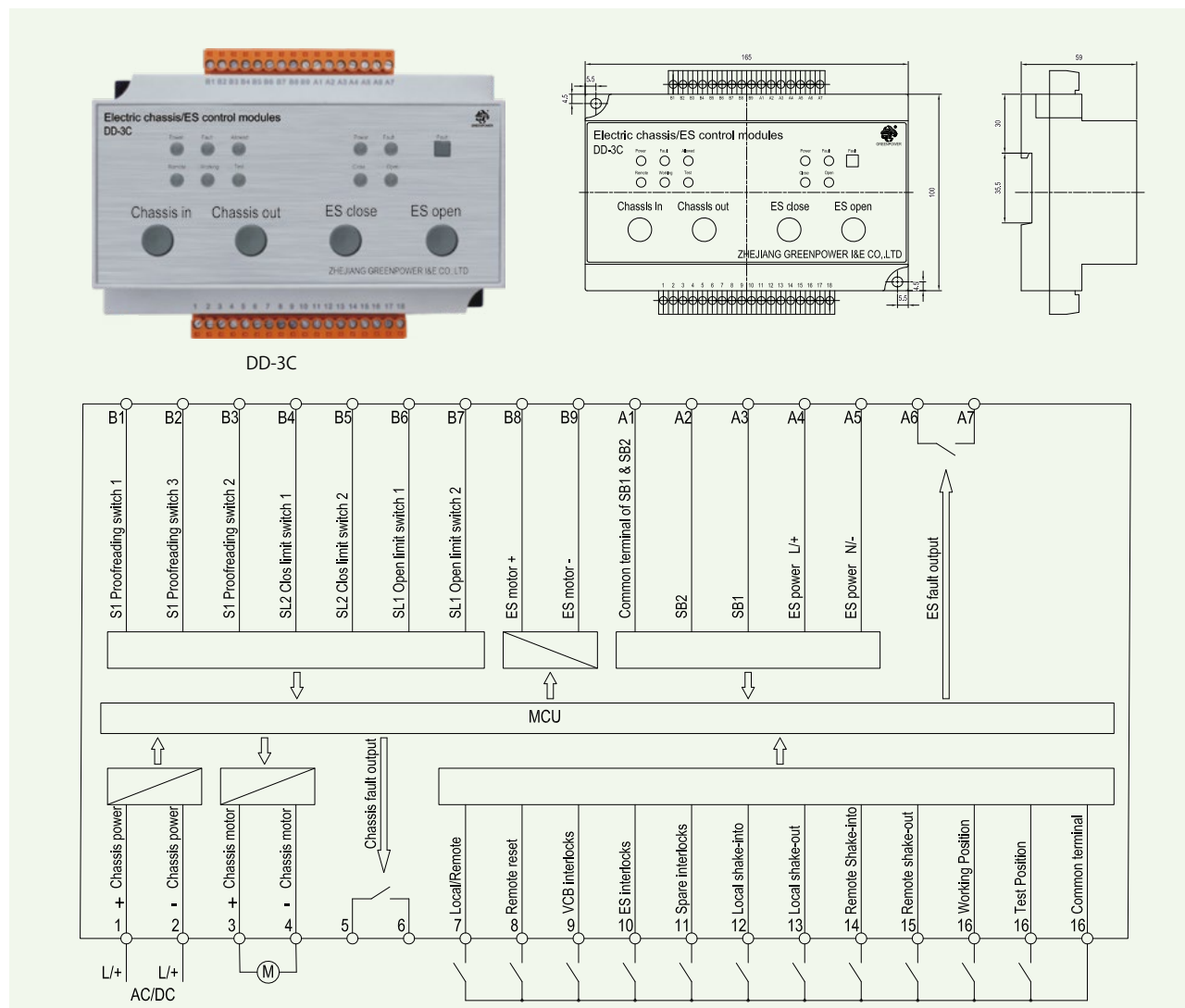


Wiring diagram for DD-3A and DD-3B

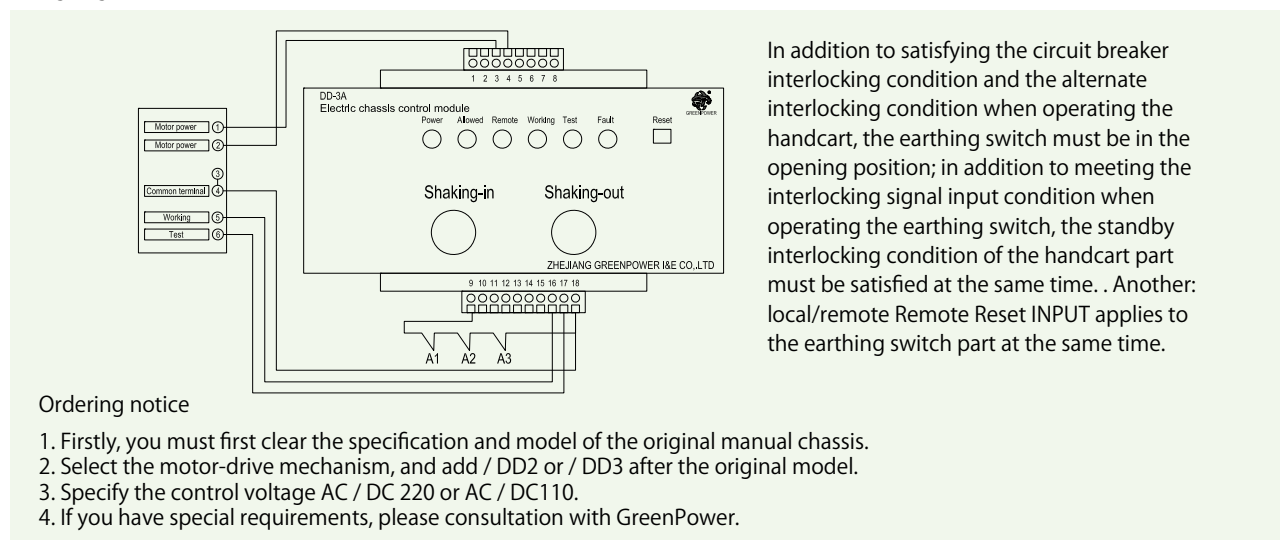


Chassis for GPN1-12/24kV Switchgear

DD-3C Earthing switch and VCB chassis 2 in 1 Controller

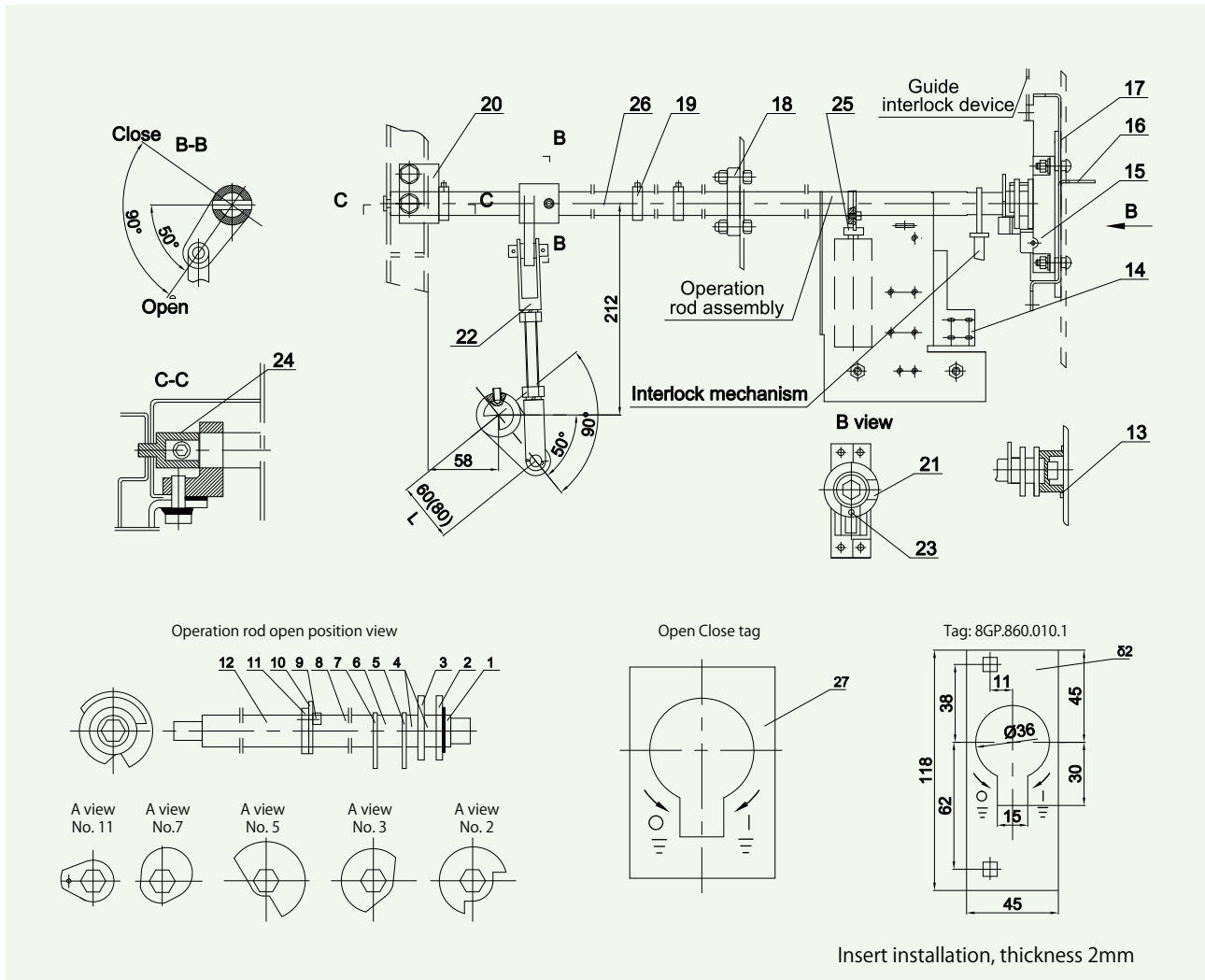


Wiring diagram for DD-3A



Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

● Installation view of earthing switch operation mechanism interlock device (For connection arm drive operation) 5GP.363.010



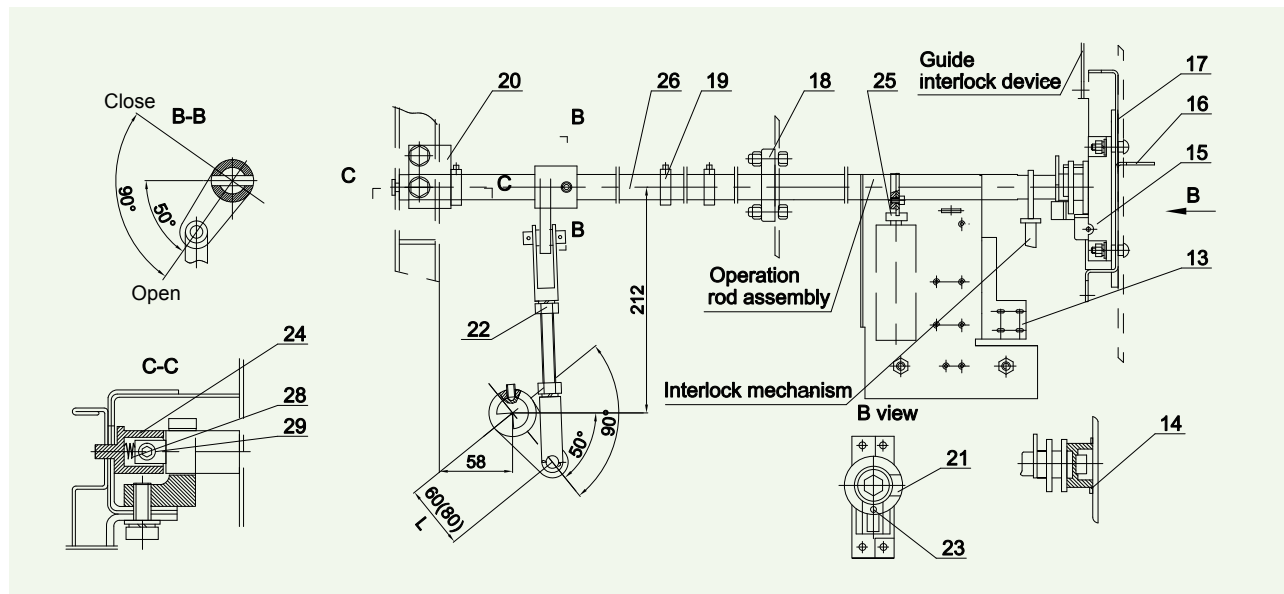
Arrangement list of earthing switch operation mechanism interlock device (For connection arm drive operation) 5GP.363.010

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Bearing	8GP.263.011	1	14	Supporting plate	8GP.161.058	1
2	Sector	8GP.192.010	1	15	Bracket	8GP.161.058.1(For option)	1
3	Sector	8GP.192.011	1	16	Supporting plate	5GP.043.022	1
4	Axis sleeve	8GP.021.014.1	2	17	Slider	8GP.161.059	2
5	Sector	8GP.151.041	1	18	Axis sleeve	8GP.143.010	2
6	Axis sleeve	8GP.211.061	1	19	Stopper sleeve	8GP.221.057	3
7	Sector	8GP.151.039	1	20	Support base	8GP.043.019	1
8	Axis sleeve	8GP.211.062	1	21	Close indicating	8GP.886.010	1
9	Bolt M5 × 12	GB70-85	1	22	Connection rod assembly	8GP.233.030.1	1
10	Sector	8GP.151.042	1	23	Open indicating	8GP.233.030.3(For option)	1
11	Sector	8GP.151.043	1	24	Axis sleeve	8GP.866.011	1
12	Operation rod	8GP.200.010.1 8GP.200.010.4(Earthing switch be installed in the middle of cabinet) (Long 1432 for cabinet 1500 depth cabinet) 8GP.200.010.2 8GP.200.010.5(Earthing switch be installed in the middle of cabinet) (Long 1592 for cabinet depth 1660)	1	25	Tooth plug plate	8GP.211.059	1
13	Cover	8GP.017.011.1	1	26	Axis sleeve	8GP.151.044	1
				27	ES marks	8GP.211.060	2
						8GP.860.010	1

Note: The connection rod in No. 22 connection rod assembly has two size: Standard is 60mm center distance, if user need 80mm center distance, please check page 17 the connection arm assembly instruction, and specify when ordering.

Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

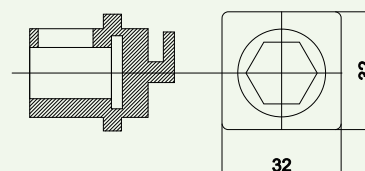
● Earthing switch operation mechanism interlock device (For connection arm drive operation) 5GP.363.010.1 assembly diagram



Instruction of interlock device:

The interlock device is added the reverse interlock with the rear door which designed on the basis of original 5GP.363.010 earthing switch operation mechanism interlock device. That is, after the earthing switch is closed and open the rear door (sealing plate), the original interlock could still operating the earthing switch, but this interlock could not. You must first shut the rear door (sealing plate) in order to operate the earthing switch.

The working principles of the interlock device is changed the No. 24 locking sleeve to what showed on right and added spring on the basis of the original 5GP.363.010. When the rear door (sealing plate) open, the lock sleeve enter into the square hole of the cabinet (recommended size 35X35), earthing switch cannot be operated.



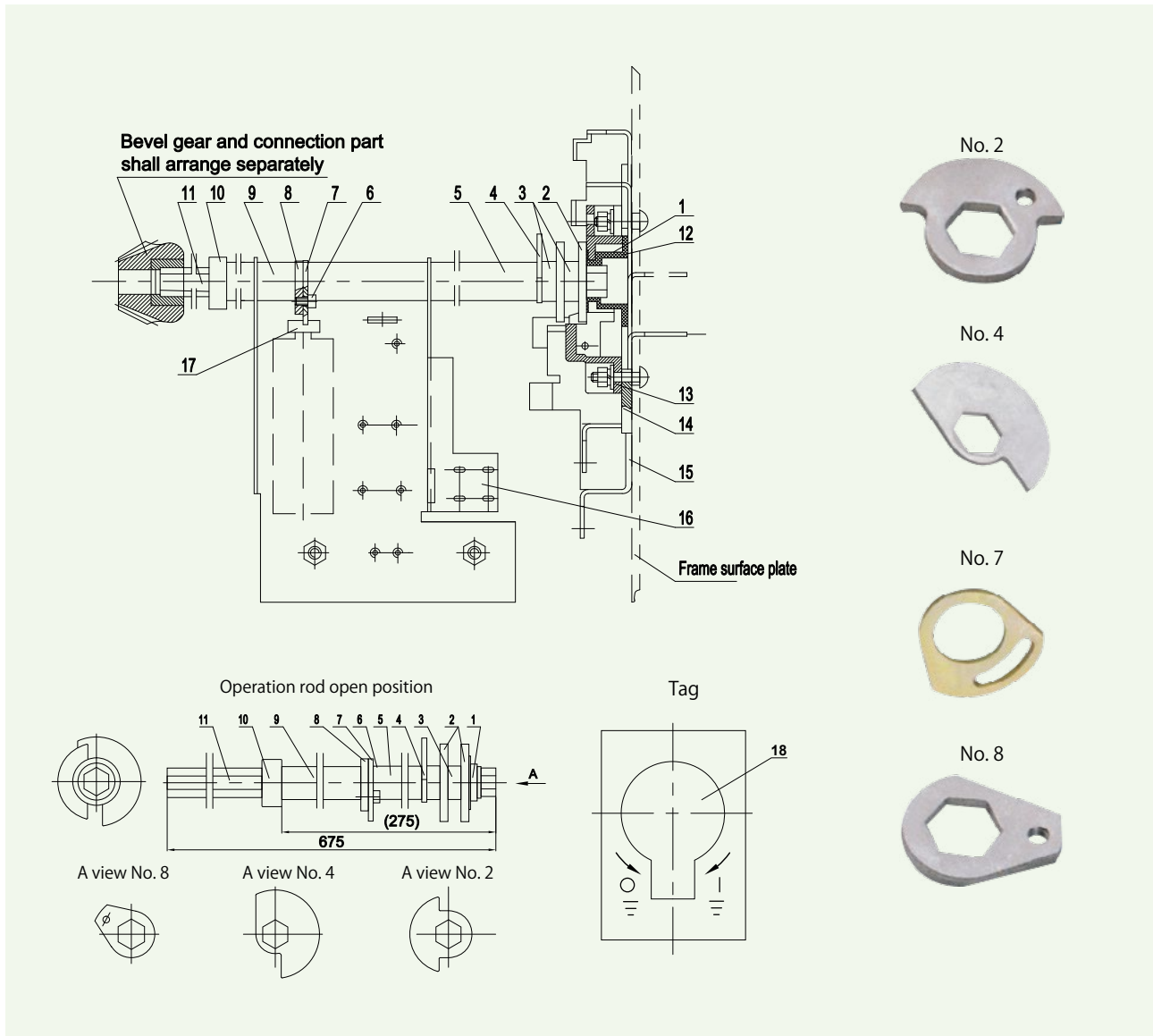
Earthing switch operation mechanism interlock device (For connection arm drive operation) 5GP.363.010.1 arrangement list.

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Bearing	8GP.263.011	1	14	Cover	8GP.017.011.1	1
2	Sector	8GP.192.010	1	15	Bracket	5GP.043.022	1
3	Sector	8GP.192.011	1	16	Supporting plate	8GP.161.059	1
4	Axis sleeve	8GP.210.014.1	2	17	Slider	8GP.143.010	2
5	Sector	8GP.151.041	1	18	Axis sleeve	8GP.211.058	1
6	Axis sleeve	8GP.211.061	1	19	Stopper sleeve	8GP.211.057	3
7	Sector	8GP.151.039	1	20	Support base	8GP.043.019	1
8	Axis sleeve	8GP.211.062	1	21	Close indicating	8GP.866.010	1
9	Bolt M5 × 12	GB70-85	1	22	Connection rod assembly	5GP.233.030.1	1
10	Sector	8GP.151.042	1			5GP.233.030.3(For option)	1
11	Sector	8GP.151.043	1	23	Open indicating	8GP.866.011	1
12	Operation rod	8GP.200.013.1 (Long 1432 for cabinet depth 1500 depth)	1	24	Locking sleeve	8GP.211.201	1
		8GP.200.013.2 (Long 1590 for cabinet depth 1660)	1	25	Tooth plug plate	8GP.151.044	1
13	Supporting plate	8GP.161.058	1	26	Axis sleeve	8GP.211.060	2
		8GP.161.058.1(For option)	1	27	Tag	8GP.860.010	1
				28	Pressure spring	8GP.282.201	1
				29	Locking sleeve fixing Bolt	8GP.920.002	1

Note:

- No. 1~12 see the previous page.
- No. 22 Connection rod assembly, the connection arm has two size: Cabinet center distance 60mm in common. If need 80mm center distance please check page 17 the connection arm assembly instruction, and specify when ordering.

● Earthing switch operation mechanism interlock device (For bevel gear drive operation) 5GP.577.1001



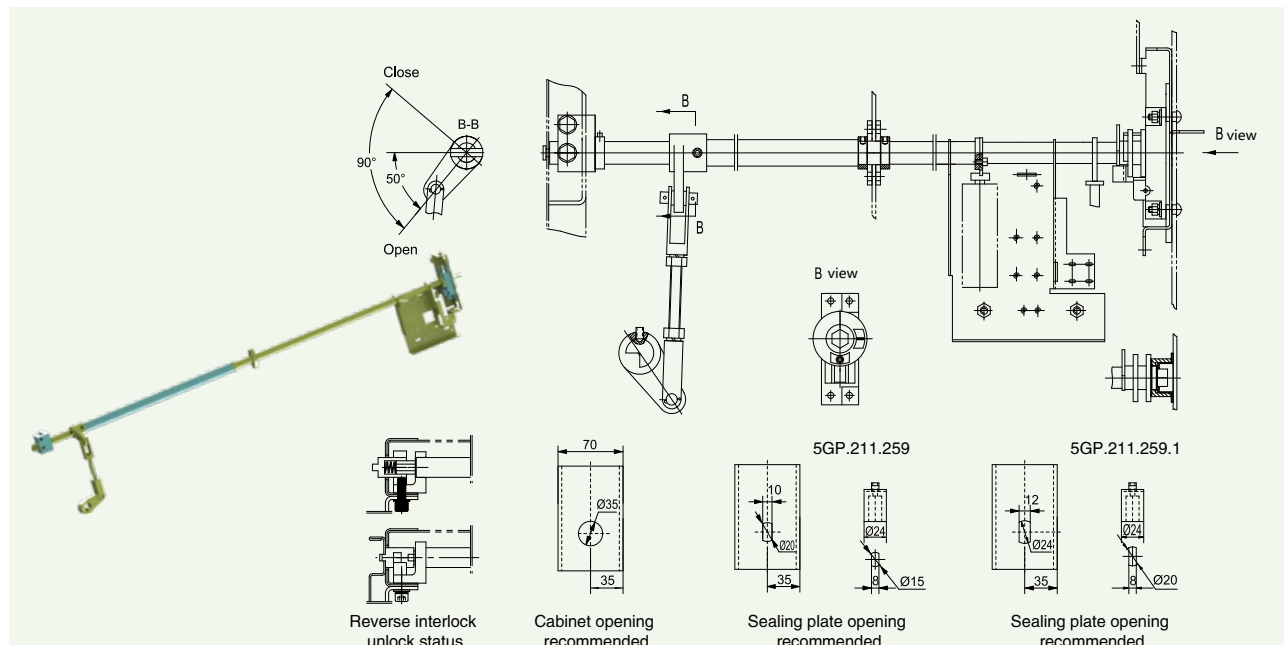
Earthing switch operation mechanism interlock device (For bevel gear drive operation) 5GP.577.1001 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Bearing	8GP.263.011	1	10	Stopper sleeve	8GP.210.322	1
2	Stopper plate	8GP.151.084	2	11	Operation rod	8GP.174.214	1
3	Axis sleeve	8GP.210.014.1	2	12	Cover	8GP.017.011.2	1
4	Sector	8GP.151.041	1	13	Support base	5GP.043.022	1
5	Axis sleeve	8GP.210.014.2	1	14	Slider	8GP.143.010	2
6	Bolt M 5X12	GB70-85	1	15	Supporting plate	8GP.161.059	1
7	Sector	8GP.151.042	1	16	Supporting plate	8GP.161.058	1
8	Sector	8GP.151.043	1	17	Tooth plug plate	8GP.151.044	1
9	Axis sleeve	8GP.210.014.3	1	18	Tag	8GP.860.010	1

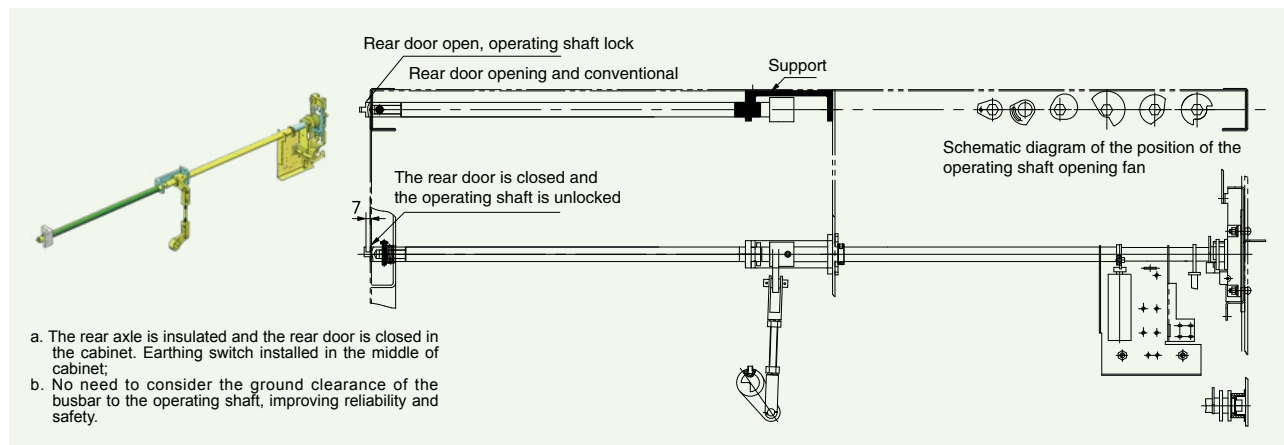
Note: 1. This mechanism need interlocked with down door, please specify when ordering.

Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

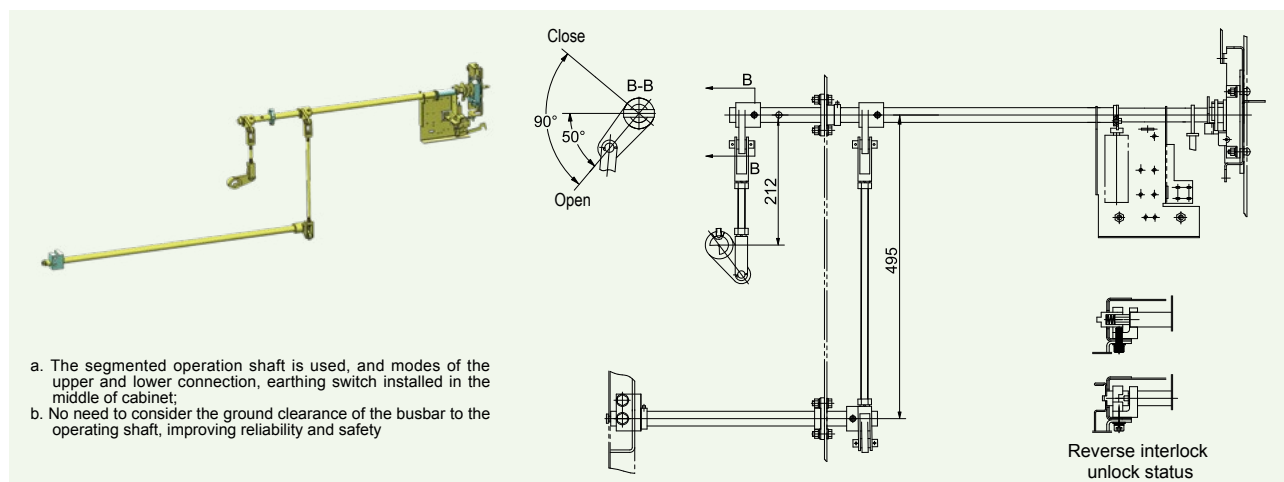
● Earthing switch operation mechanism(For connection arm drive) 5GP.363.010.3



● Earthing switch operation mechanism(type of insulating rod) 5GP.363.010.3/JY

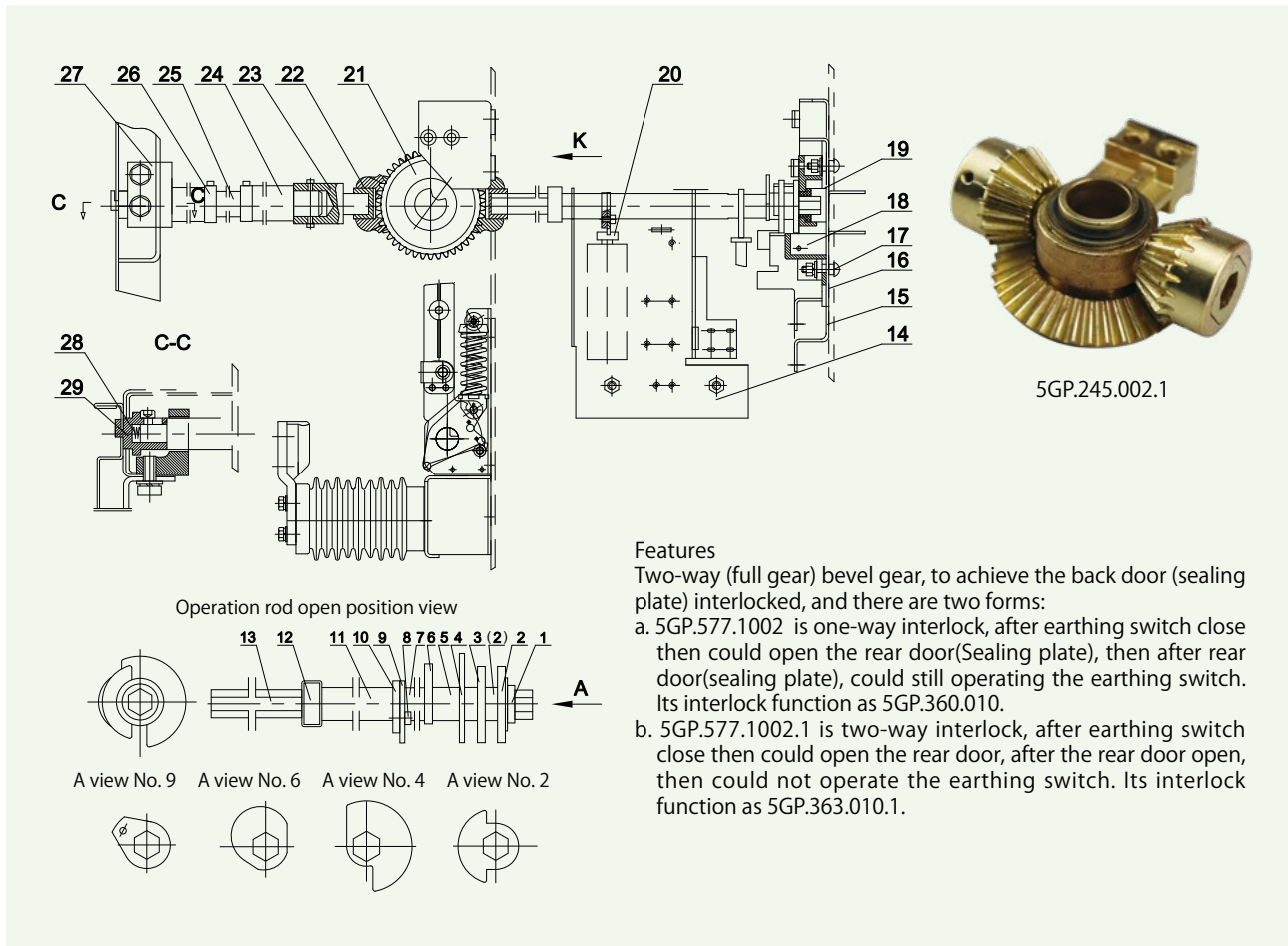


● Earthing switch operation mechanism(type of Split) 5GP.363.010.3/FT



Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

Earthing switch operation mechanism interlock device(For two-way bevel gear drive operation) 5GP.577.1002/ 5GP.577.1002.1



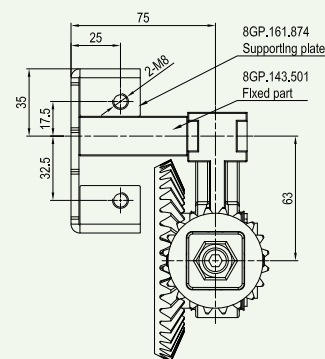
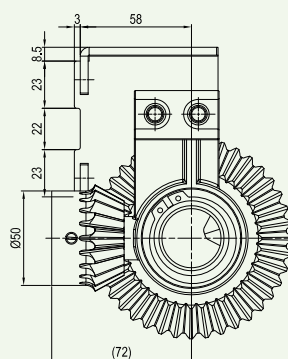
Earthing switch operation mechanism interlock device(For two-way bevel gear drive operation) 5GP.577.1002 / 5GP.577.1002.1 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)
1	Bearing	8GP.263.011	1
2	Stopper plate	8GP.151.084	2
3	Axis sleeve	8GP.210.014.1	2
4	Sector	8GP.151.041	1
5	Axis sleeve	8GP.210.061	1
6	Sector	8GP.151.039	1
7	Axis sleeve	8GP.211.062	1
8	Bolt M5X12	GB70-85	1
9	Sector	8GP.151.042	1
10	Sector	8GP.151.043	1
11	Axis sleeve	8GP.210.014.3	1
12	Stopper sleeve	8GP.210.322	1
13	Operation rod	8GP.174.214	1
14	Supporting plate	8GP.161.058	1
15	Supporting plate	8GP.161.059	1
16	Slider	8GP.143.010	2
17	Bolt M6X25	GB12-88	2
18	Support base	5GP.043.022	1
19	Cover	8GP.017.011.2	1
20	Tooth plug plate	8GP.151.044	1

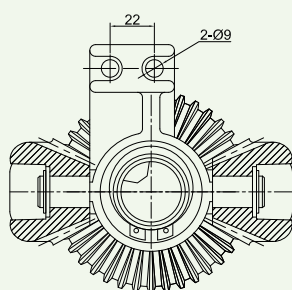
No.	Name	Drawing no.	Qty. (pc/set)
21	Bevel gear assembly	5GP.245.002.1	1
22	Link part	8GP.143.108.2	1
23	Link sleeve	5GP.259.001.1	1
24	Axis sleeve	8GP.211.060	2
25	Operation rod (Matching 5GP.577.1002)	8GP.200.011.1 For cabinet depth 1500	1
		8GP.200.011.2 For cabinet depth 1660	
		8GP.200.012.1 For cabinet depth 1500	
		8GP.200.012.2 For cabinet depth 1660	
26	Stopper sleeve	8GP.211.057	2
27	Support base	8GP.043.019.7	1
28	Pressure spring	8GP.282.201(For 5GP.577.1002.1)	1
29	Locking sleeve	8GP.211.059(For 5GP.577.1002) 8GP.211.201(For 5GP.577.1002.1)	1
30	Supporting plate	8GP.161.874	1
31	Fixed part	8GP.143.501	1
32	Tag	8GP.860.010	1

Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

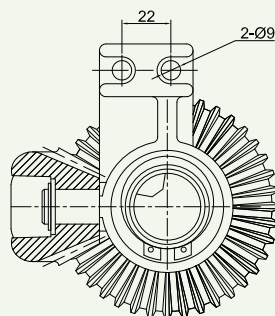
Bevel gear assembly model and installation dimension



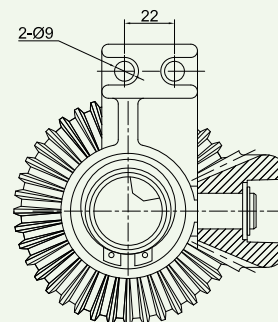
Note: a. When ordering please specify the model of bevel gear; b. Model 8GP.161.874 Supporting plate and 8GP.143.501 are for option, will not arrange with gear if not special specify when ordering.



Double way bevel gear assembly 5GP.245.002.1

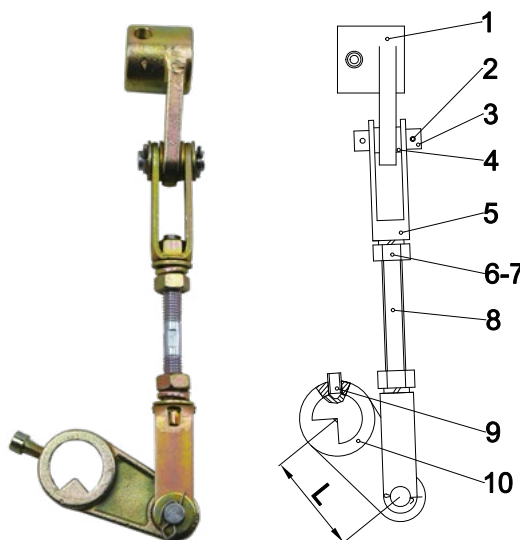


Single way bevel assembly 5GP.245.001



Single way bevel gear assembly(Reverse) 5GP.245.001.5

Connection arm assembly 5GP.233.030

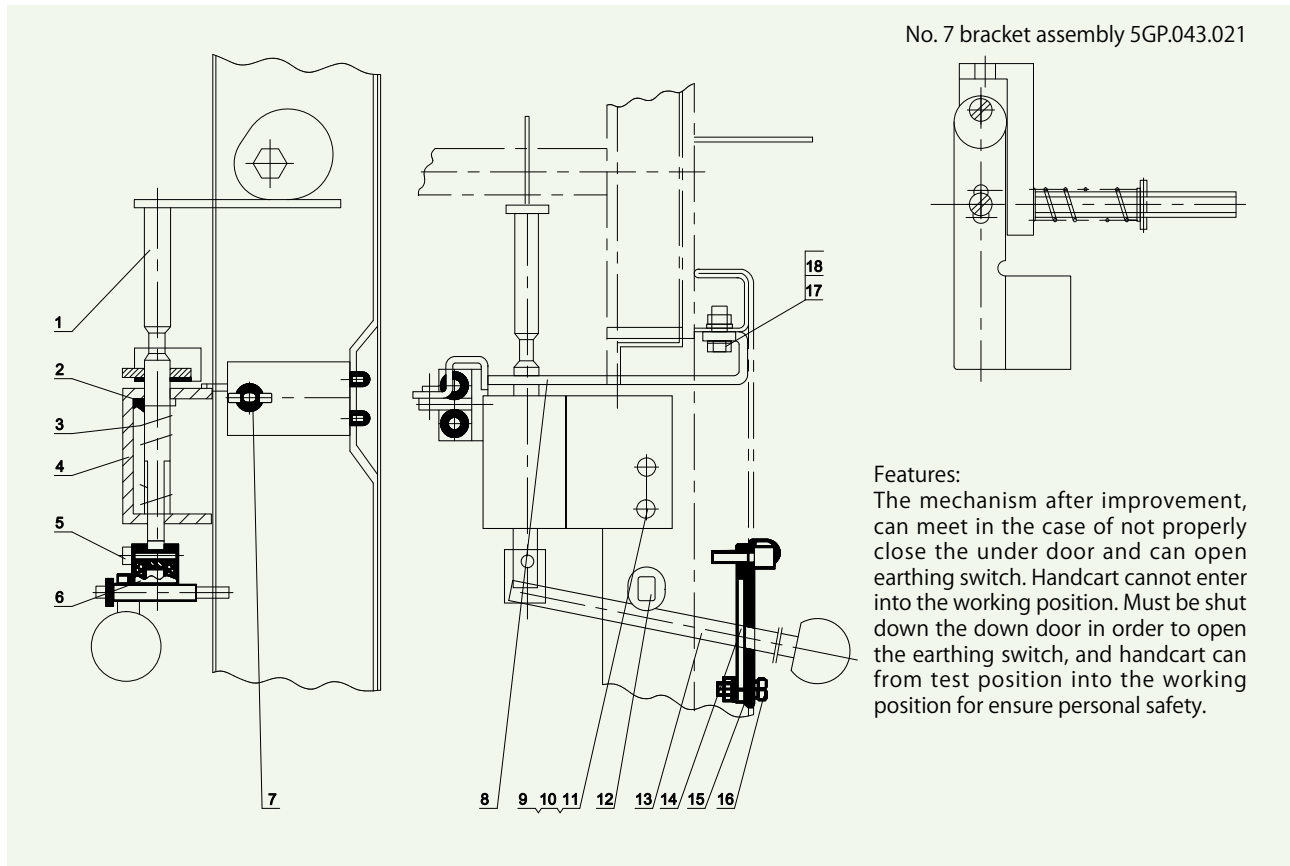


No.	Name	Drawing no.	Qty. (pc/set)	L
1	Connection arm	5GP.151.016.1	1	
2	Cotter pin 4X20	GB91-86	4	
3	Pin with hole 12X40	GB880-86	2	
4	Washer	8GP.950.010	4	
5	Clamp fork	8GP.257.010	2	
6	Nut M12	GB6170-86	2	
7	Washer 12	GB93-87	2	
8	Bolt M12X120	GB901-88	1	
9	Bolt M8X16	GB78-85	1	
10	Connection arm	5GP.233.030.1 Connection rod	1	60
		For 5GP.151.017		
		5GP.233.030.3 Connection rod	1	80
		For 5GP.151.017.1		

Note: Connection arm assembly arranging common connection arm L=60.
If user need connection arm L=80, shall specify when ordering.

Earthing Switch Interlock Device For GPN1-12/24kV Switchgear

Down door interlock mechanism 5GP.239.010



Down door interlock mechanism 5GP.239.010 arrangement list

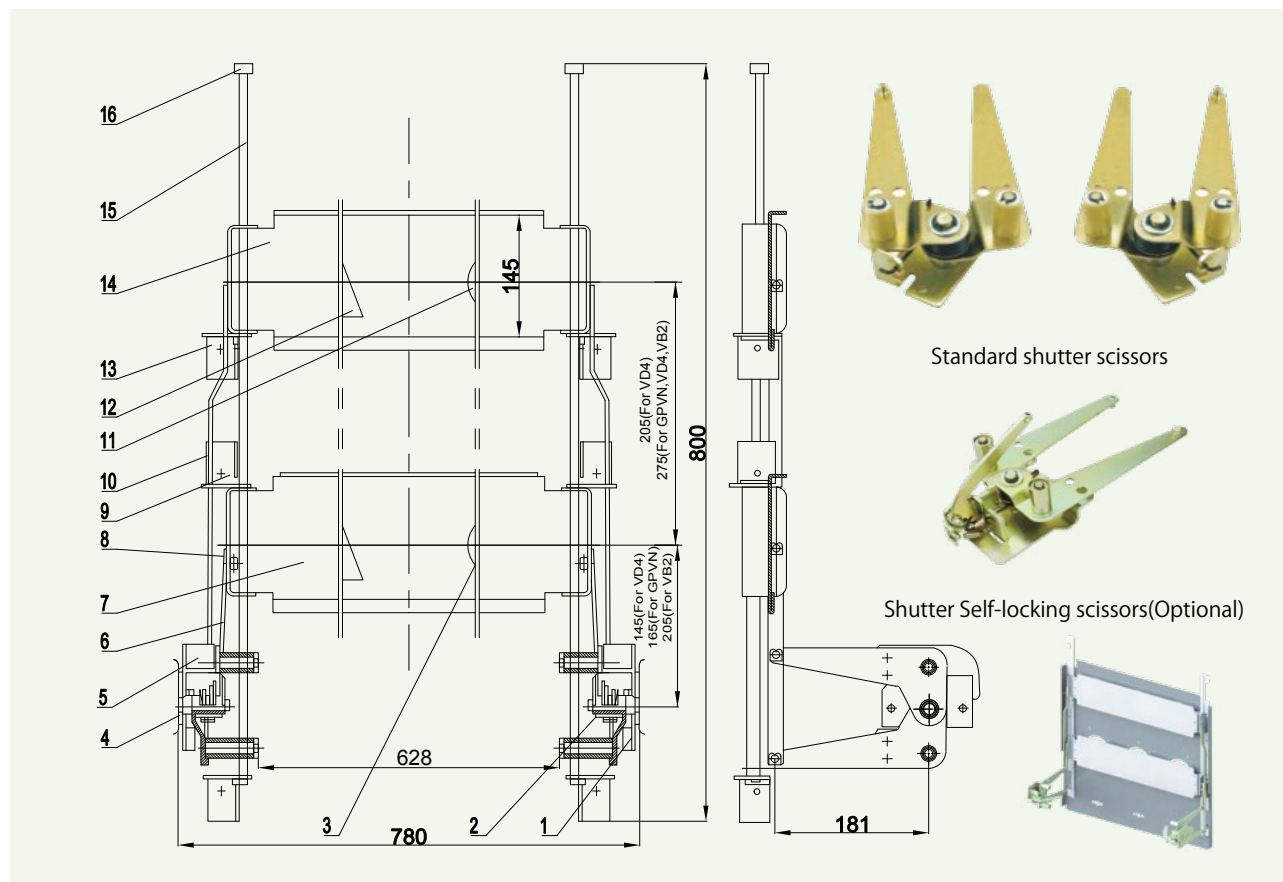


No.	Name	Drawing no.	Qty. (pc/set)
1	Pin axis welding	5GP.234.013	1
2	Pressure spring	8GP.282.021	1
3	Pin3X20	GB879-86	2
4	Support base	8GP.043.020	1
5	Bolt M5X12	GB70-85	1
6	End cap	8GP.017.010	1
7	Bracket assembly	5GP.043.021	1
8	Locking part	8GP.060.012	1
9	Bolt M6X20	GB70-85	3

No.	Name	Drawing no.	Qty. (pc/set)
10	Washer 6	GB93-87	5
11	Washer 6	GB97.1-85	7
12	Pin	8GP.200.015	1
13	Handle	5GP.253.010	1
14	Backing plate	8GP.156.011	1
15	Supporting plate	8GP.161.055	1
16	Pin	8GP.993.051	2
17	Bolt M6X20	GB5783-85	2
18	Nut M6	GB6170-86	2

Shutter Assembly for GPN1-12/24kV Switchgear

● (800mm width middle-placed switchgear) Shutter assembly 5GP.320.010 installation diagram



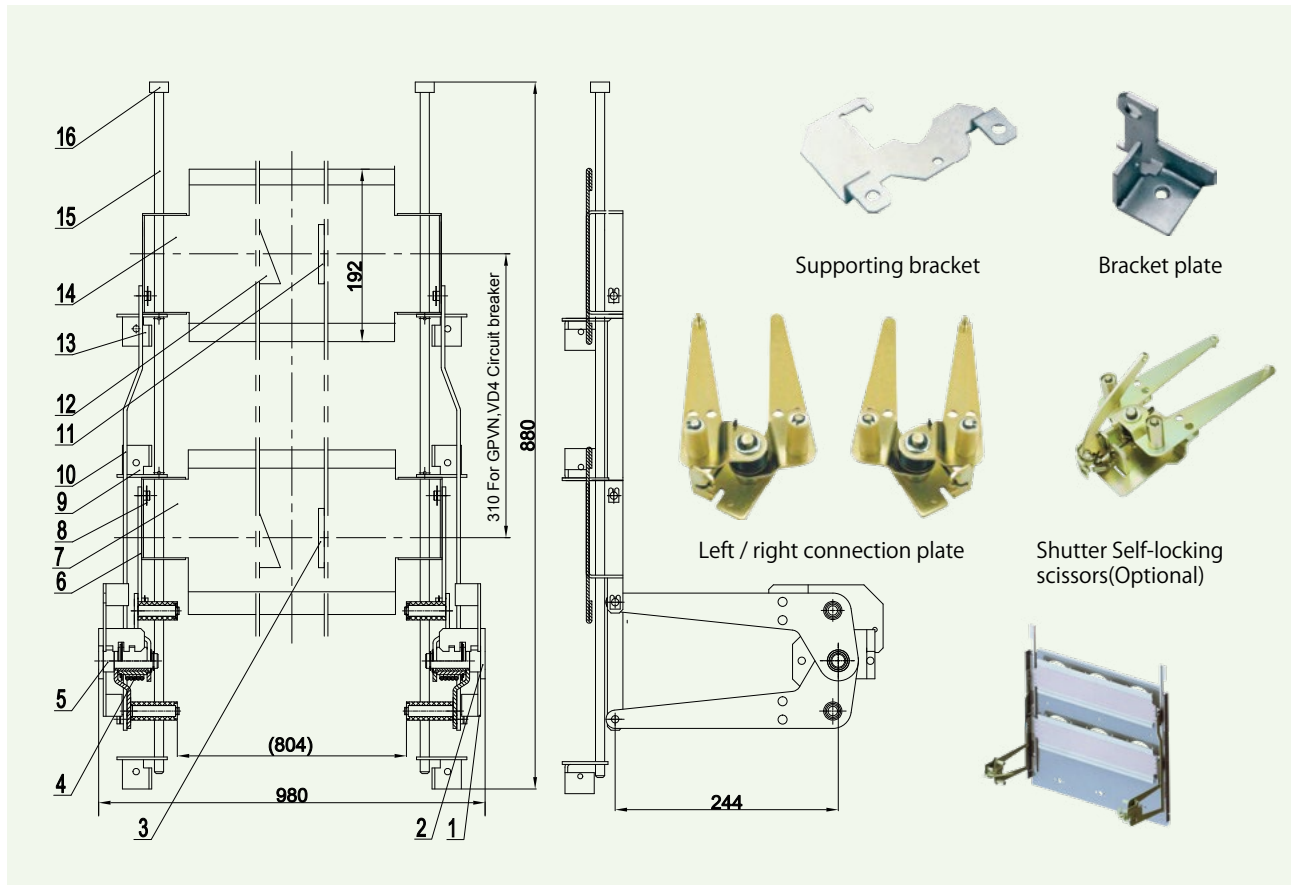
(800mm width middle-placed switchgear) Shutter assembly 5GP.320.010 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Right supporting bracket	8GP.123.011	1	10	Connection welding	5GP.174.015.1(For VD4, 40kA) 5GP.174.015.2(For VD4, 31.5kA) 5GP.174.015.3(For GPN) 5GP.174.015.4(For VB2)	2
2	Right connection plate	5GP.235.011	1	11	Indicating tag	8GP.866.012	1
3	Indicating tag	8GP.866.014	1	12	Indicating tag	8GP.866.013	2
4	Left connection	5GP.235.010	1	13	Bracket plate	8GP.123.012	3
5	Left supporting bracket	8GP.123.010	1	14	Upper shutter	8GP.320.011	1
6	Connection welding	5GP.174.016.1(For VD4) 5GP.174.016.2(For GPN) 5GP.174.016.3(For VB2)	2	15	Guide rod	8GP.234.011(For VD4, GPN) 8GP.234.011.1(For VB2)	2
7	Down shutter gate	8GP.320.010	1	16	Stopper sleeve	8GP.210.011	2
8	Block jammed 8	DK-8	8				
9	Bracket plate	8GP.123.013	3				

Other specification shutter arrangement list

Code	5GP.320.010.1	5GP.320.010.2	5GP.320.010.3	5GP.320.010.4	5GP.320.010.5
Cabinet width	650mm	700mm	840mm	900mm	1000mm
Upper gate	8GP.320.011.1	8GP.320.011.2	8GP.320.011.3	8GP.320.011.4	8GP.320.011.5
Down gate	8GP.320.010.1	8GP.320.010.2	8GP.320.010.3	8GP.320.010.4	8GP.320.010.5

● (1000mm width middle-placed switchgear) Shutter assembly 5GP.320.011



(1000mm width middle-placed switchgear) Shutter mechanism device 5GP.320.011 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Right supporting bracket	8GP.123.276	1	9	Bracket plate	8GP.123.278	3
2	Right connection plate	5GP.235.012	1	10	Connection welding joint	5GP.174.282	2
3	Indicating tag	8GP.866.014	1	11	Indicating tag	8GP.866.012	1
4	Left connection plate	5GP.235.013	1	12	Indicating tag	8GP.866.013	2
5	Left supporting bracket	8GP.123.275	1	13	Bracket plate	8GP.123.277	3
6	Connection weld assembly	5GP.174.281	2	14	Upper shutter	8GP.320.274	1
7	Down shutter	8GP.320.273	1	15	Guide rod	8GP.234.272	2
8	Block jammed 10	DK-10	8	16	Stopper sleeve	8GP.210.011	2

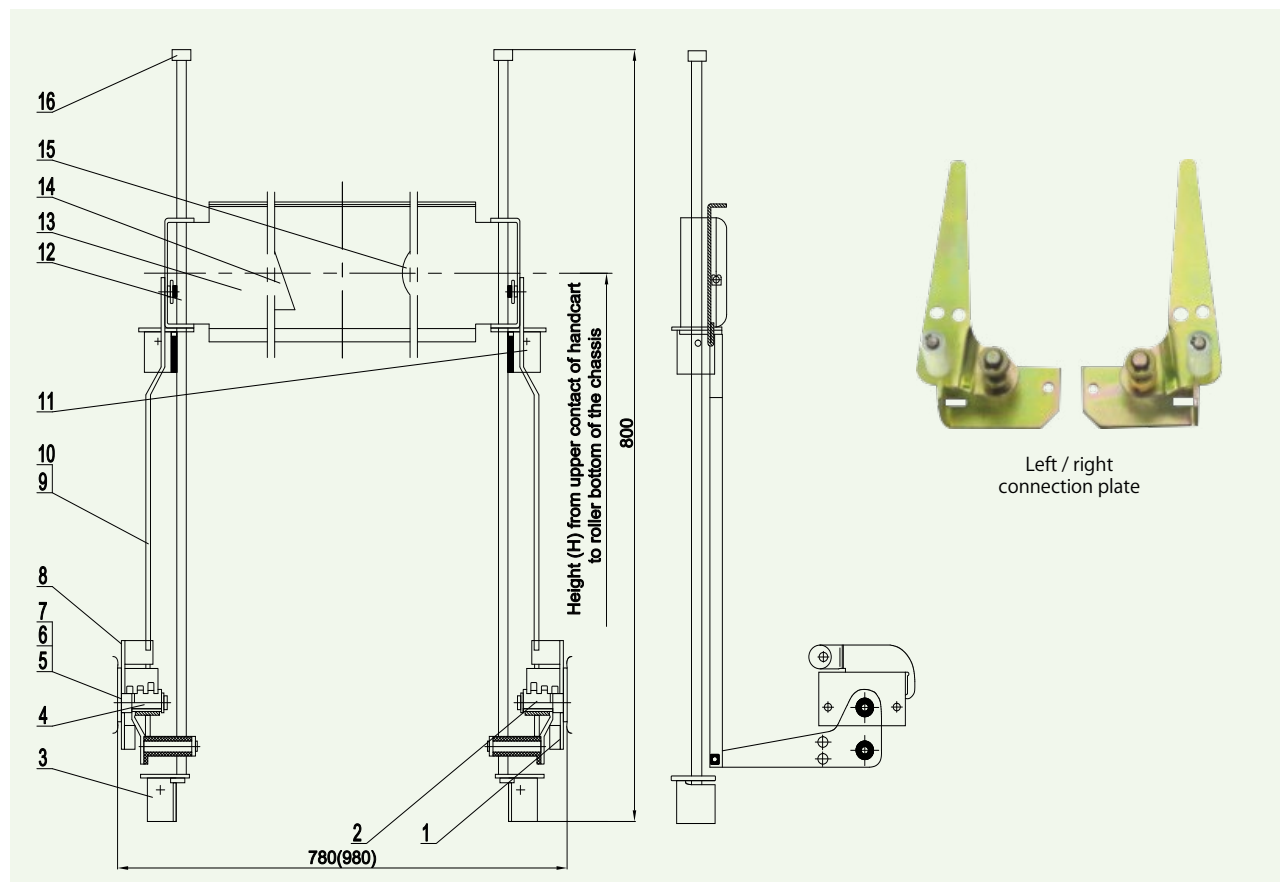
Other specification shutter arrangement list

Code	5GP.320.011.1	5GP.320.011/JY	5GP.320.011.2	5GP.320.011.3
Cabinet width	800mm	1000mm(Insulating)	1100mm	1200mm
Upper gate	8GP.320.274.1	5GP.320.275	8GP.320.274.2	8GP.320.274.3
Down gate	8GP.320.273.1	5GP.320.275.1	8GP.320.273.2	8GP.320.273.3

Note: 5GP.320.275 is for insulating shutter by SMC plate in middle and both end by steel plate, other shutter assembly if need insulating gate please specify.

Shutter Assembly for GPN1-12/24kV Switchgear

800mm
1000mm Width middle-placed switchgear) upper gate shutter assembly device 5GP.320.012 / 5GP.320.012.1



800mm
1000mm Width middle-placed switchgear) shutter assembly device 5GP.320.012 / 5GP.320.012.1 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)
1	Right supporting bracket	8GP.123.011	1
2	Down connection plate assembly (right)	5GP.174.004	1
3	Bracket plate	8GP.123.012	2
4	Down connection assembly (Left)	5GP.174.003	1
5	Washer 6	GB97.1-85	14
6	Washer 6	GB93-87	8
7	Bolt M6X12	GB5783-86	8
8	Left supporting bracket	8GP.123.010	1
9	Block jammed 8	DK-8	4

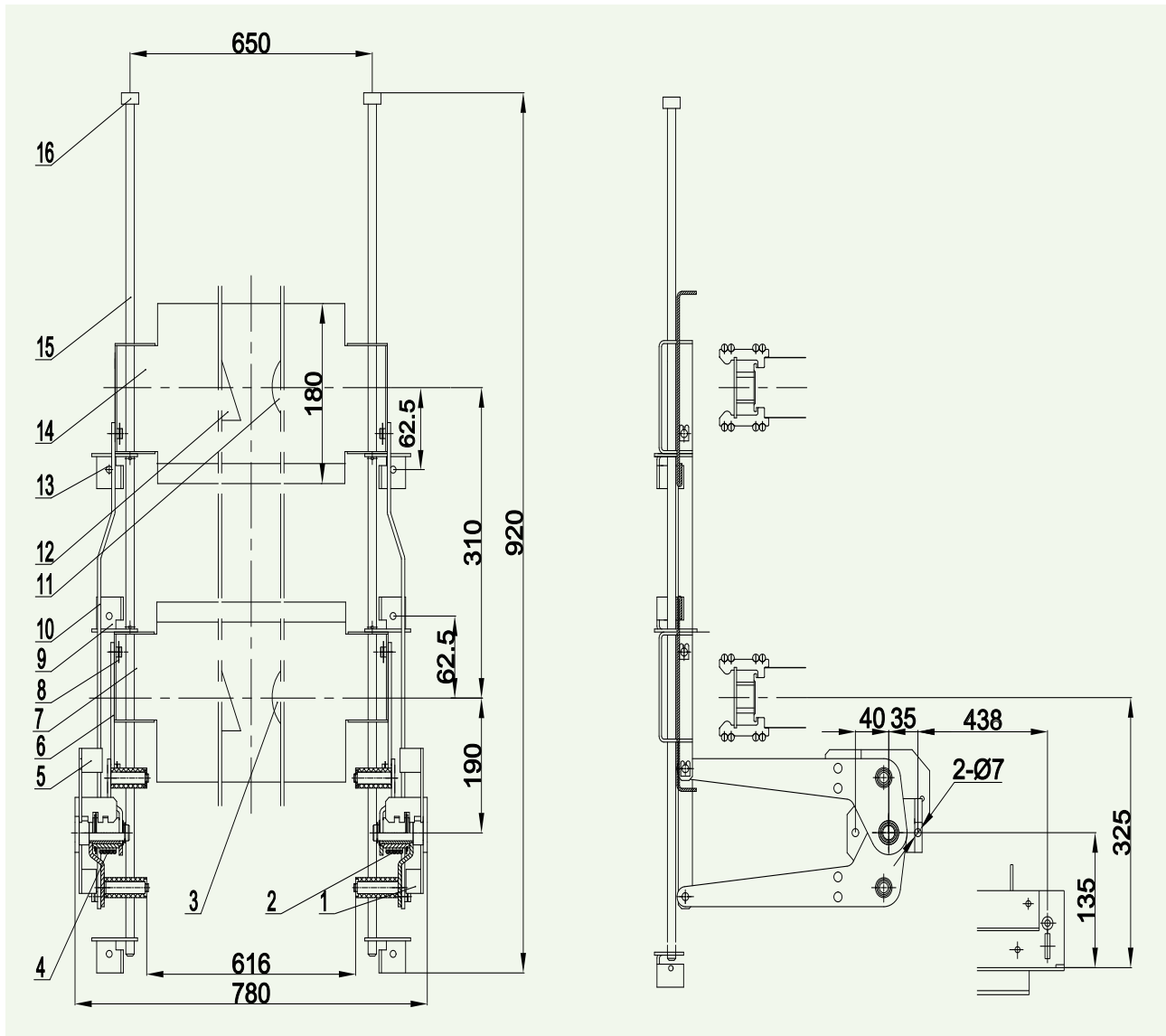
No.	Name	Drawing no.	Qty. (pc/set)
10	Connection welding joint	5GP.174.015.1 (H=535, as VD4, 40kA) 5GP.174.015.2 (H=465, as VD4, 31.5kA) 5GP.174.015.3 (H=555, as GPVN)	2
11	Bracket plate	8GP.123.013	2
12	Guide rod	8GP.234.011	2
13	Upper shutter	8GP.320.011 (For cabinet width 800mm) 8GP.320.011.5 (For cabinet width 1000mm)	1
14	Indicating tag	8GP.866.013	1
15	Indicating tag	8GP.866.012	1
16	Stopper sleeve	8GP.210.011	2

800(1000)mm width middle placed switchgear down gate shutter assembly device 5GP.320.014/5GP.320.014.1

No.	Name	Drawing no.	Qty. (pc/set)
1	Right supporting bracket	8GP.123.011	1
2	Right connection plate	5GP.235.011.2	1
3	Bracket plate	8GP.123.012	2
4	Left connection plate	5GP.235.010.2	1
5	Left supporting bracket	8GP.123.010	1
6	Block jammed 8	DK-8	4
7	Connection welding joint	5GP.174.016.305	2

No.	Name	Drawing no.	Qty. (pc/set)
8	Indicating tag	8GP.866.012	1
9	Indicating tag	8GP.866.013	1
10	Down shutter gate	8GP.320.010(800mm) 8GP.320.011.5(1000mm)	1
11	Guide rail	8GP.234.047.560	2
12	Limit sleeve	8GP.210.011	2
13	Bracket plate	8GP.123.013	2

● Shutter assembly 5GP.320.010/24(800 width 24kV middle-placed switchgear)

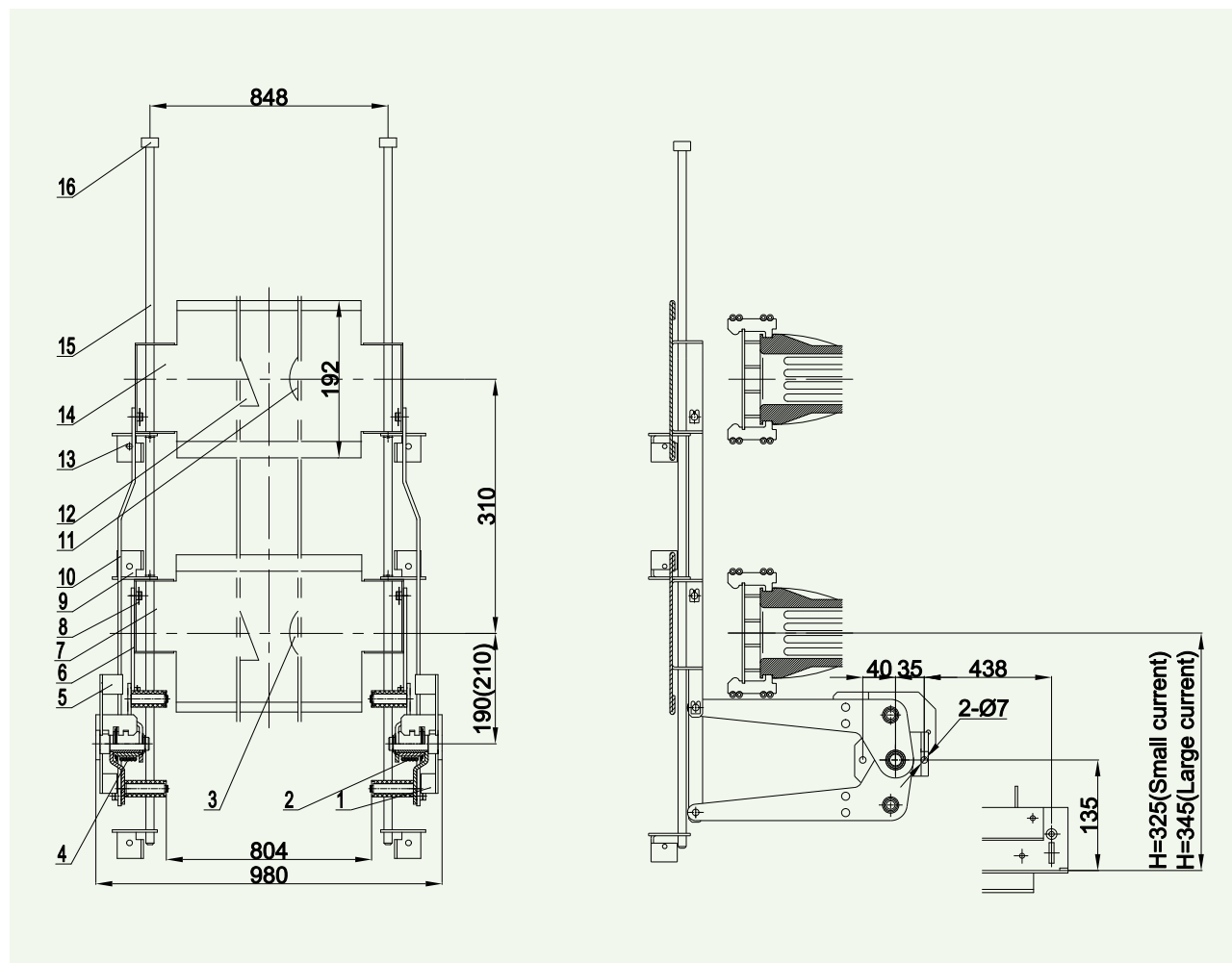


(800 Width, 24kV middle-placed switchgear shutter assembly 5GP.320.010/24 arrangement list

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Right support frame	8GP.123.011.2	1	9	Supporting frame	8GP.123.013	3
2	Left side connection plate	8GP.235.011.7	1	10	Connection welding joint	5GP.174.015.588	2
3	Indicating tag	8GP.866.014	1	11	Indicating tag	8GP.866.012	1
4	Left side connection plate	8GP.235.010.7	1	12	Indicating tag	8GP.866.013	2
5	Left support plate	8GP.123.010.2	1	13	Supporting tag	8GP.123.012	3
6	Connection welding joint	5GP.174.016.145	2	14	Upper gate	8GP.320.011.37	1
7	Down gate	8GP.320.010.37	1	15	Guide rod	8GP.234.011.880	2
8	Block jammed 8	DK-8	8	16	Stopper sleeve	8GP.210.011	2

Shutter Assembly for GPN1-12/24kV Switchgear

● Shutter assembly 5GP.320.011/24(1000mm width 24KV middle-placed switchgear)



(1000mm width, 24kV middle-placed switchgear) Shutter assembly 5GP.320.011/24 arrangement list

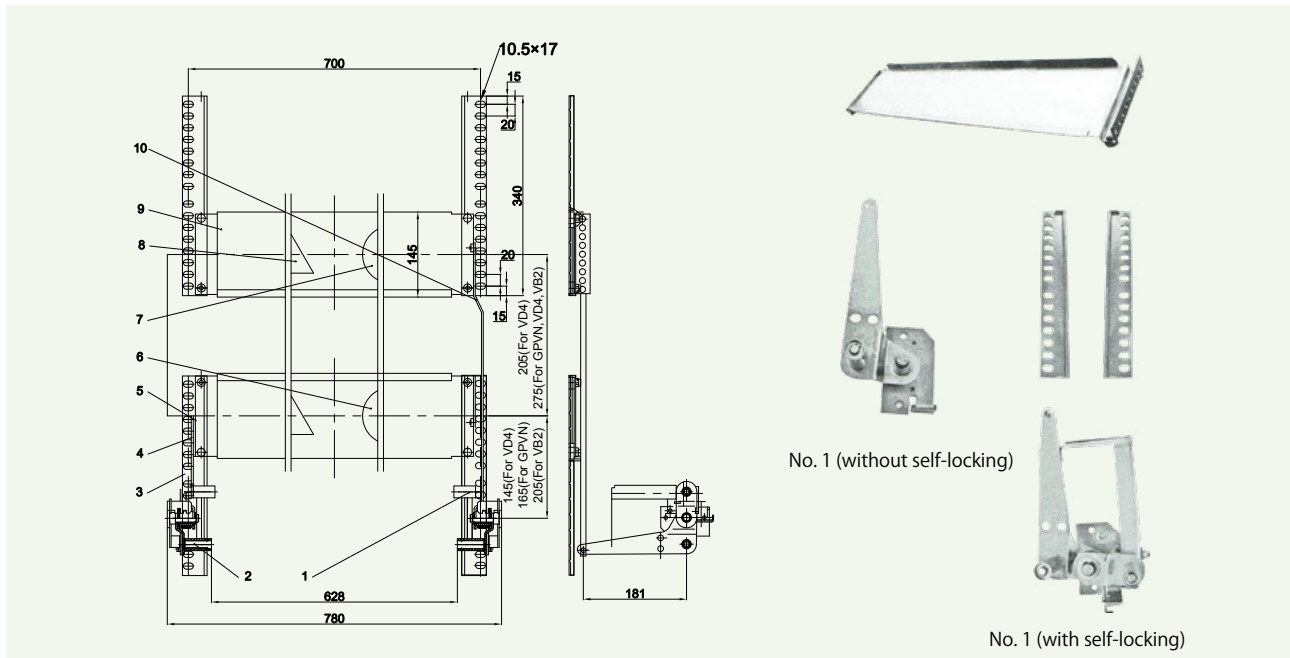
No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Right support frame	8GP.123.276.1	1	9	Bracket plate	8GP.123.278	3
2	Left side connection plate	5GP.235.012.10	1	10	Connection welding joint	5GP.174.282.585 (For small current) 5GP.174.282.605 (For large current)	2
3	Indicating tag	8GP.866.014	1	11	Indicating tag	8GP.866.012	1
4	Left side connection plate	5GP.235.013.10	1	12	Indicating tag	8GP.866.013	2
5	Left support plate	8GP.123.275.1	1	13	bracket plate	8GP.123.277	3
6	Connection welding joint	5GP.174.281.150 (For small current) 5GP.174.281.170 (For large current)	2	14	Upper shutter	8GP.320.274	1
7	Down shutter	8GP.320.273	1	15	Guide rod	8GP.234.272/24	2
8	Block jammed 10	DK-10	8	16	Stopper sleeve	8GP.210.011	2

Ordering notice: Generally, $\leq 1250A$ is small current, $H=325$, $\geq 1600A$ is large current, $H=345$,
But GPN-1600A, H has 325 and 345 for option, if $H=325$ will as small current, $H=345$ is as large current.
(please specify the height when ordering)

One-side drive shutter assembly

GPN1-12/24kV exists 5GP.320.010 / 011 shutter assembly has the issues of not feeding synchronized and inconsistent, shutter is easy to tilt that cannot normally open or closed. To solve this problem, this shutter assembly is use of one side drive structure, equipped with roller bearings on the shutter gate, the track also adopted one side structure, which can adjust the gap between the rollers, so that when the shutter up and down movement is flexible, reliable, and not tilted. It is also take advantage of the vacant position after one side drive to increase the use of self-locking function valve for option, when the circuit breaker drawn-out, shutter gate cannot move and more safe.

One-side drive shutter assembly: 5GP.320.030 (self-locking) installation diagram.

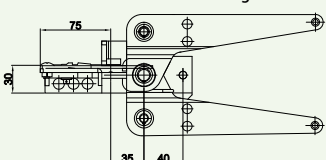
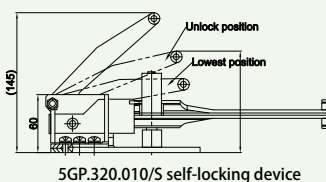


One-side drive shutter assembly: 5GP.320.030 (with self-locking), 5GP.320.032 (without self-locking) arrangement

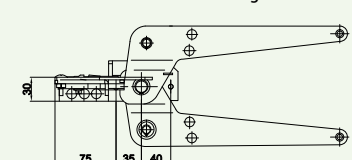
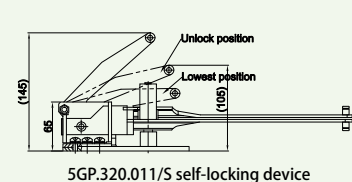
No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Right connection plate	5GP. 235. 044	1	5	Block jammed	DK-8	4
		(Match with 5GP. 320. 030)		6	Indicating tag	8GP. 866.014	1
2	Left connection plate	5GP. 174.004	1	7	Indicating tag	8GP. 866.012	1
		(Match with 5GP. 320. 032)		8	Indicating tag	8GP.866.013	2
		5GP. 235. 043		9	Match with shutter gate assembly	5GP.320. 033	2
3	Single guide	8GP. 260. 030	4	10	Connection welding joint	5GP. 174.015.1~3	1
4	Connection plate welding	5GP.174.016.1~2	1				

Shutter assembly self-interlock device

The previous 5GP.320.010 / 011 shutter assembly when the breaker is withdrawn, could move up and down the shutter gate which is unsafe. Now added self-locking device on the previous left and right connection plate, to meet the requirement of not directly move the shutter gate after the breaker is draw-out. The needs of the self-locking device, please add S in the original model.



5GP.235.051(052) Left(right) connection plate



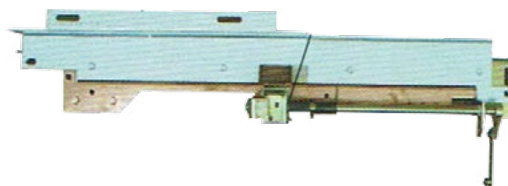
5GP.235.055(056) Left(right) connection plate

Guide rail device for GPN1-12/24kV Switchgear

12kV Copper guide rail For earthing clamp

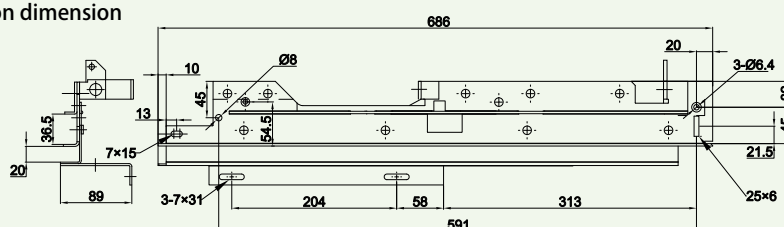


Left guide 5GP.260.011.20/BJK

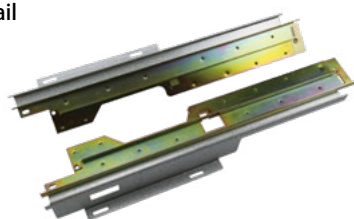


Guide interlock and guide assembly
3GP.836.001.1

Outline and installation dimension

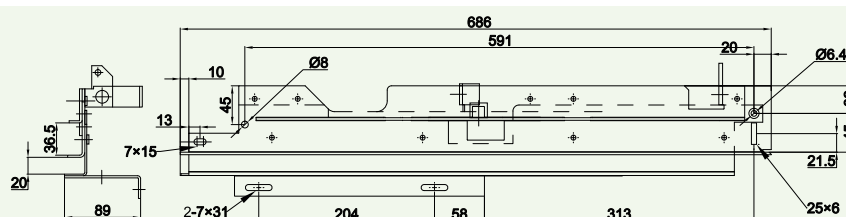


12kv Metal guide rail

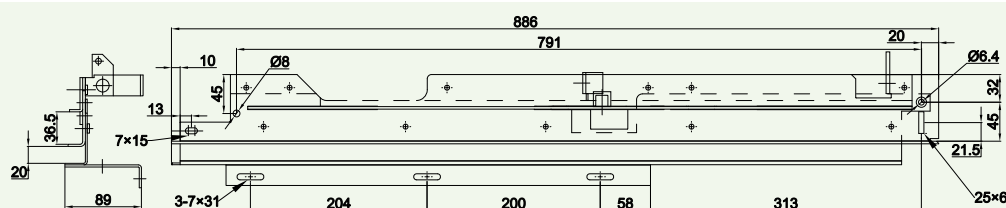


Guide interlock and guide assembly 3GP.836.001

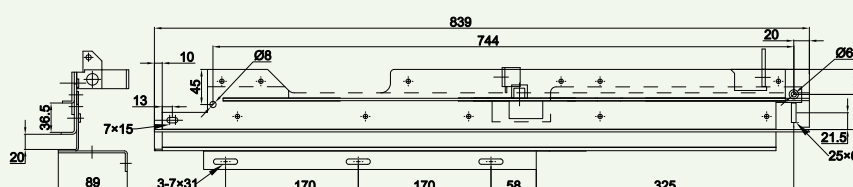
Guide rail 5GP.260.⁰¹⁰₀₁₁ (Standard type)



Guide rail 5GP.260.⁰¹⁰₀₁₁.3 (Extend type) Extend 200, for modified withdrawable VCB of 3AH, VN12, VN28, VN65)



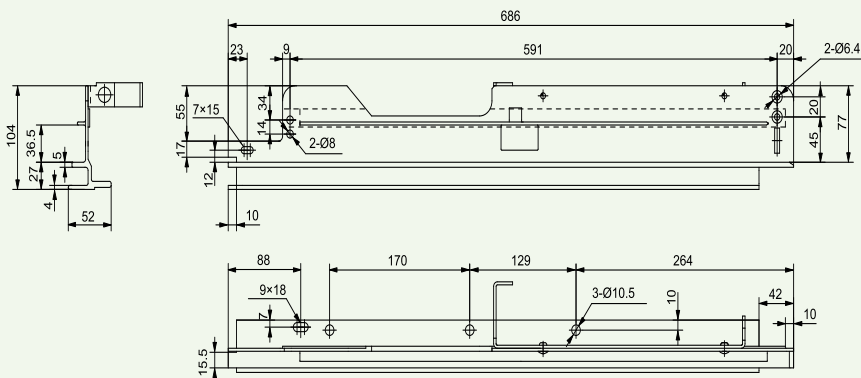
Guide rail 5GP.260.⁰¹⁰₀₁₁.10 (Extend type: extend 153. For VB2 etc.)



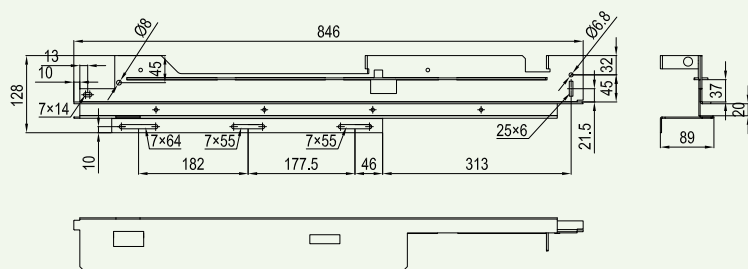
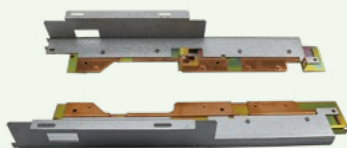
- Aluminum guide rail for 12kV



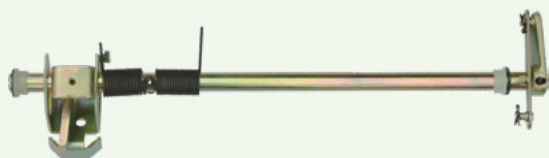
Left guide: 8GP.260.021
Right guide: 5GP.260.006



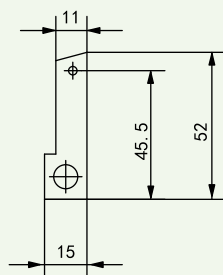
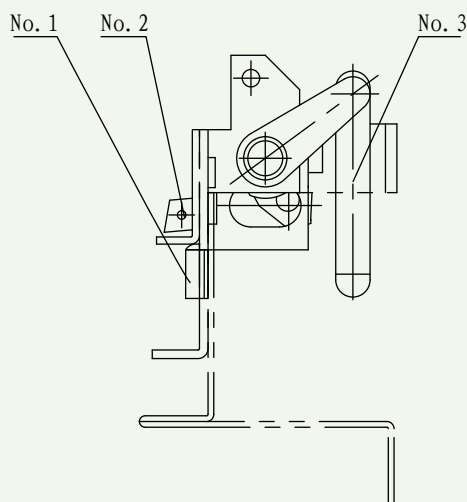
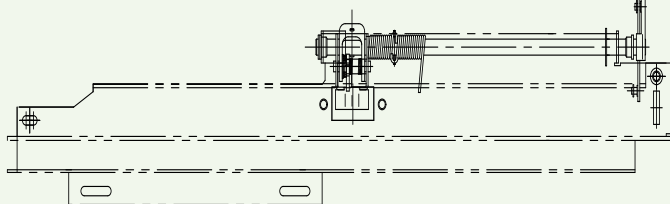
- 24kV Copper guide rail 5GP.260.010/24, 5GP.260.011/24



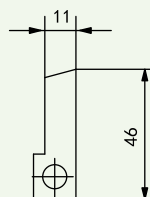
- Guide interlock device



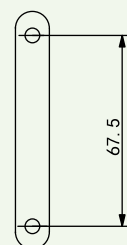
5GP.363.010 for VD4 5GP.363.011 for GPVN



8GP.174.014(GPVN)



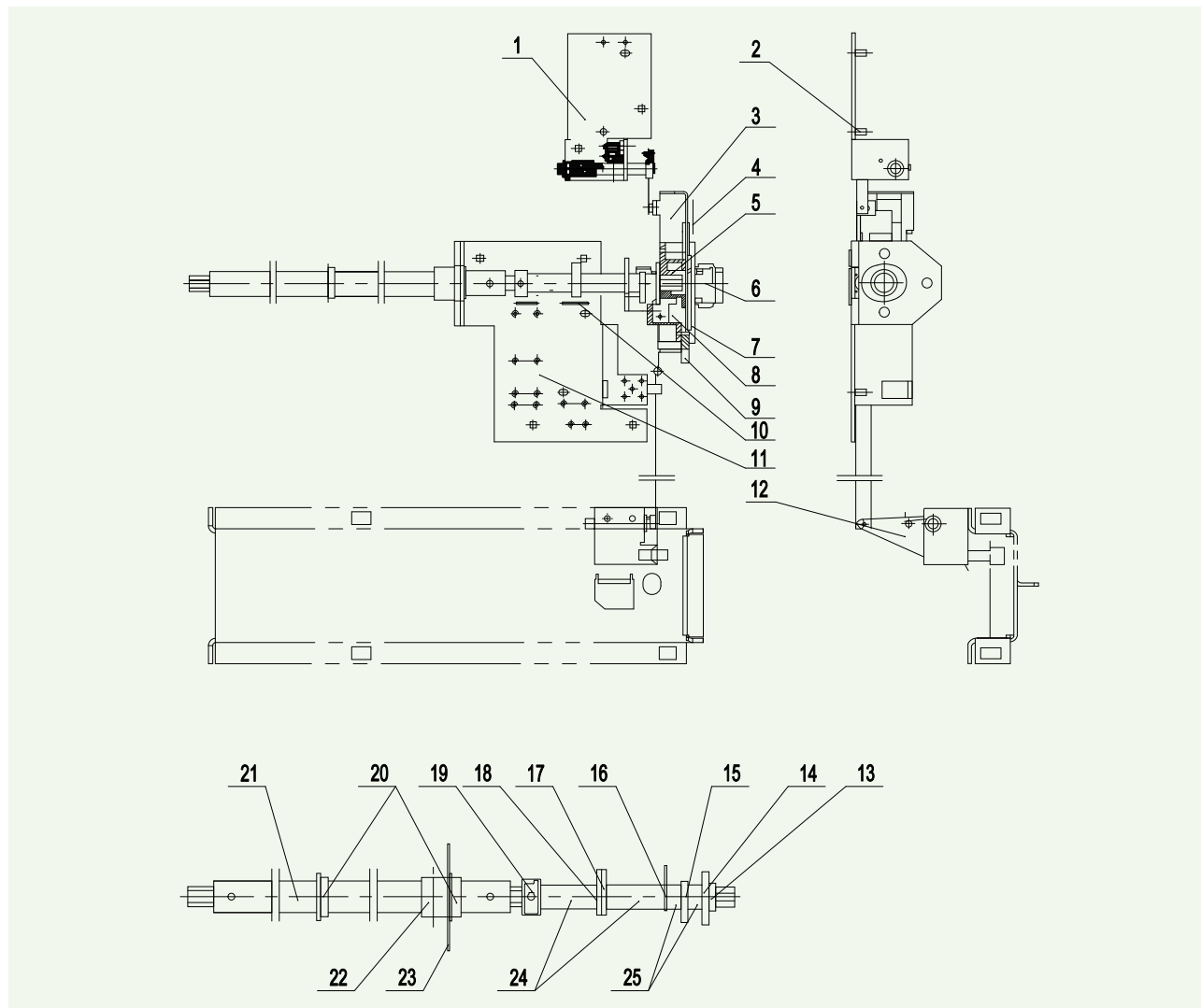
8GP.174.014(VD4)



5GP.174.010.12

Earthing Switch Interlock Device for GPN1-40.5kV Switchgear

36KV (40.5kV) Earthing switch operation mechanism interlock device 5GP.362.011

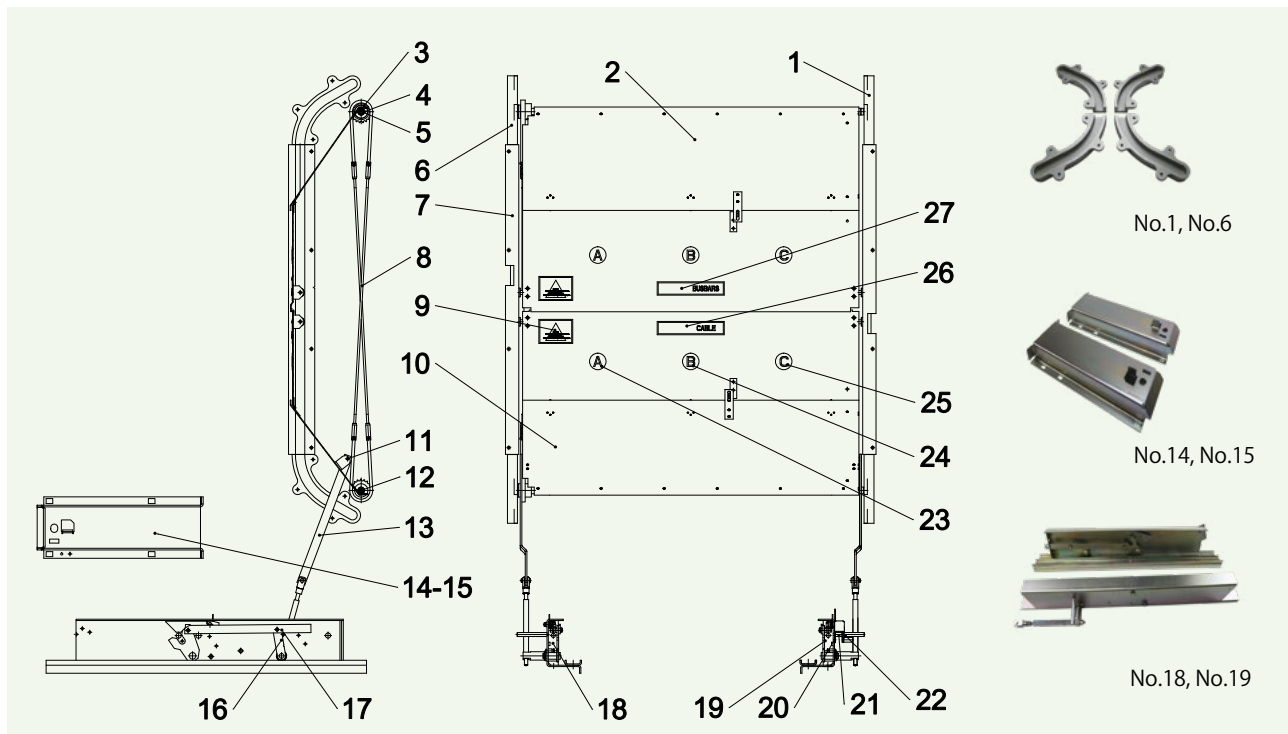


Arrangement list of 36kV earthing switch operation mechanism interlock device 5GP.362.011

No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Earthing switch stroke device	5GP.362.013	1	14	Stopper plate	8GP. 151.084	1
2	Sleeve	8GP. 211.101	4	15	Sector	8GP. 192. 012	1
3	Supporting plate	8GP. 161.059	1	16	Sector	8GP. 192.013	1
4	Tag	8GP. 867. 029	1	17	Sector	8GP. 151.043	1
5	Cover plate	8GP. 017.011.2	1	18	Sector	8GP. 151.042	1
6	Locking plate assembly	5GP. 141.001	1	19	Stopper sleeve	8GP.210.322	2
7	Plate	8GP. 150. 078	1	20	axis sleeve	8GP. 211.099	2
8	Branch base	5GP. 043. 022	1	21	Operation rod	5GP. 200. 087	1
9	Slider	8GP. 143.010	2	22	Sleeve	8GP.211. 122	1
10	Tooth plug plate	8GP. 151.044	1	23	Pressure plate	8GP. 128.051	1
11	Supporting plate	8GP. 161.076	1	24	Sleeve	8GP. 210.014. 10/HL	2
12	Grounding and chassis interlock device	5GP.362.012	1	25	Sleeve	8GP. 210. 014. 9/HL	2
13	Bearing	8GP. 263.011	1				

Shutter Assembly and Guide Rail Assembly for GPN1-40.5kV Switchgear

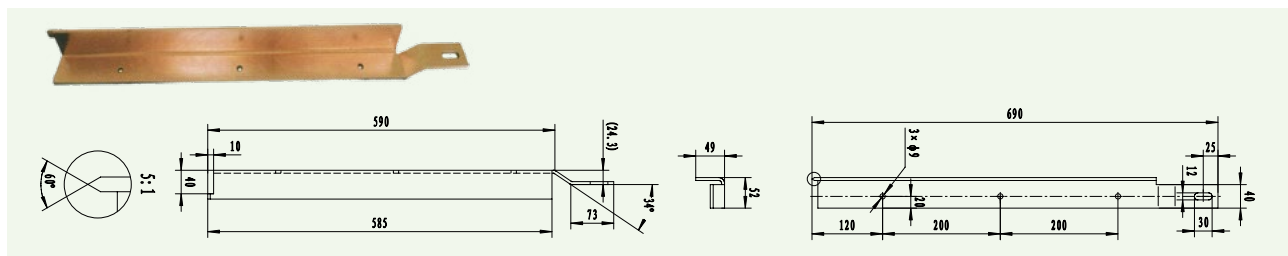
36KV (40.5kV) Guide shutter mechanism device 5GP.320.031 (Cabinet width 1200mm/1400mm)



Arrangement list of 36kv guide shutter mechanism assembly 5GP.320.031

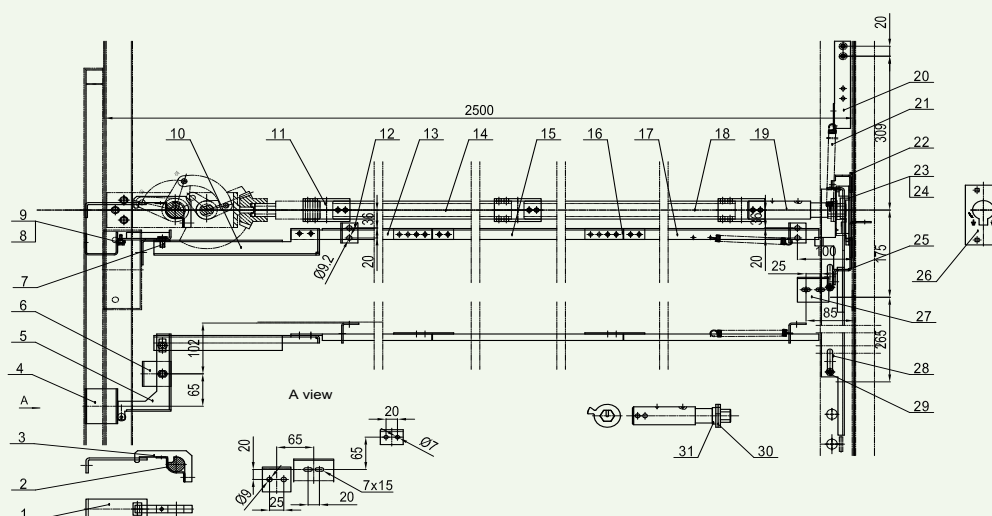
No.	Name	Drawing no.	Qty. (pc/set)	No.	Name	Drawing no.	Qty. (pc/set)
1	Guide slot	8GP. 357. 001	2	15	Positioning plate	8GP. 271.049	1
2	Upper shutter gate assembly	5GP. 320. 275. 18	1	16	Sleeve	8GP. 211.098	1
3	Axis sleeve	8GP. 211.095	3	17	Nut	8GP. 950.044	2
4	Copper sleeve	8GP. 211.096	2	18	Left guide assembly	5GP. 260.014	1
5	Pin	8GP. 993. 080	2	19	Right guide assembly	5GP. 260. 015	1
6	Guide slot	8GP. 357. 002	2	20	Locking plate	8GP. 141.047	1
7	Guide slot	8GP. 357. 003	2	21	Sleeve	8GP. 211.097	1
8	Chain assembly	5GP. 294. 001	1	22	Connection rod	8GP. 174.036	1
9	Tag	8GP. 867. 028	2	23	Tag	8GP. 867. 025	2
10	Down shutter assembly	5GP. 320. 275. 19	1	24	Tag	8GP. 867. 026	2
11	Pin	8GP. 993. 082	2	25	Tag	8GP. 867. 027	2
12	Pin	8GP. 993.081	2	26	Tag	8GP. 867. 023	1
13	Connection rod	8GP. 174.041	2	27	Tag	8GP. 867. 024	1
14	Positioning plate	8GP. 271.046	1				

Earthing Busbar / 8GP.588.006



Earthing Switch Interlock Device for GPN1-40.5kV Switchgear

36KV (40.5kV) Earthing switch operation mechanism interlock device 5GP.362.012

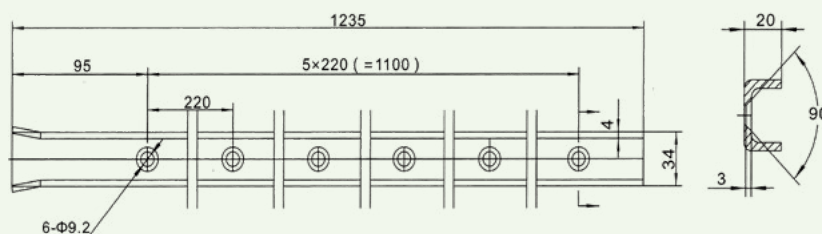


● Earthing switch operation mechanism device 5GP.363.021

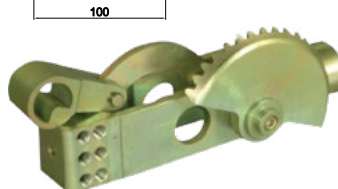
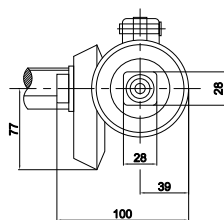
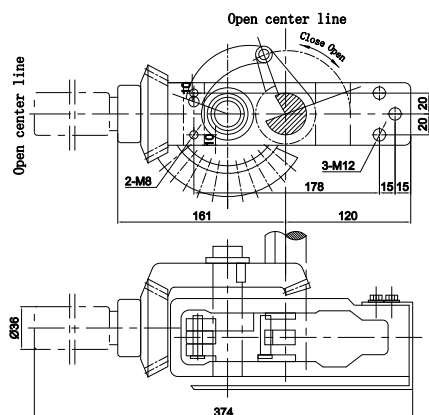
No.	Description	Drawing no.	Qty. /Set
1	Rear door interlock plate	8GP.264.1510	1
2	Rear door interlock plate	8GP.264.1512	1
3	Lock hook	8GP.264.1511	1
4	Bolt	8GP.200.1533	1
5	Bracket	8GP.038.1533	1
6	Interlocking plate	8GP.264.1508	1
7	Interlocking plate	8GP.264.1509	2
8	Bolt	8GP.900.033	1
9	Washer	8GP.210.3142.2	1
10	Slot plate	8GP.623.1512	1
11	Axis sleeve	8GP.210.1527	3
12	Bracket	8GP.038.1534	1
13	Bending support	8GP.623.1516	1
14	ES operation rod	8GP.200.1511	1
15	Bending plate	8GP.623.1515	1
16	Connecting plate	8GP.264.1507	2

No.	Description	Drawing no.	Qty. /Set
17	Bending plate	8GP.623.1514	1
18	ES operation rod	8GP.200.1512	1
19	ES operation rod	8GP.200.1513	1
20	Hanging spring bracket	8GP.038.1536	1
21	Spring	8GP.282.016	3
22	Sliding plate	8GP.143.1529	2
23	Base	8GP.200.1529	1
24	Bottom plate	8GP.143.1530	1
25	Bending plate	8GP.628.1525	1
26	ES open close marking	8GP.200.1530	1
27	Blocking Magnetic Support plate	8GP.038.1549	3
28	Connecting rod	8GP.200.1514	1
29	Nut	8GP.940.1500	2
30	Sector	8GP.192.1510	2
31	Washer	8GP.950.1522	1

● 40.5kV Metal Limited Guide Rails 8GP.201.1502



● Bevel gear operation mechanism



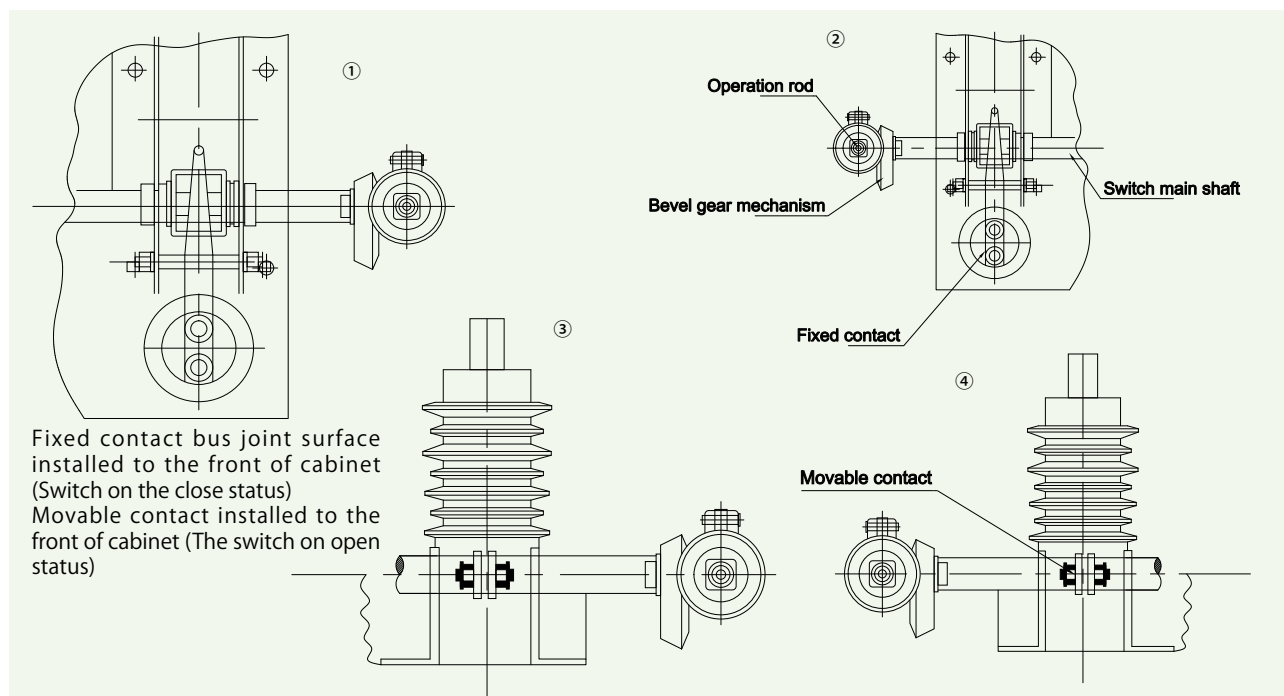
Mechanism ordering notice

Specify the shaft operation way of mechanism operation and operation direction of left or right operation.

If any special requirements, please contact with GreenPower to develop detailed specifications.

Manual instruction

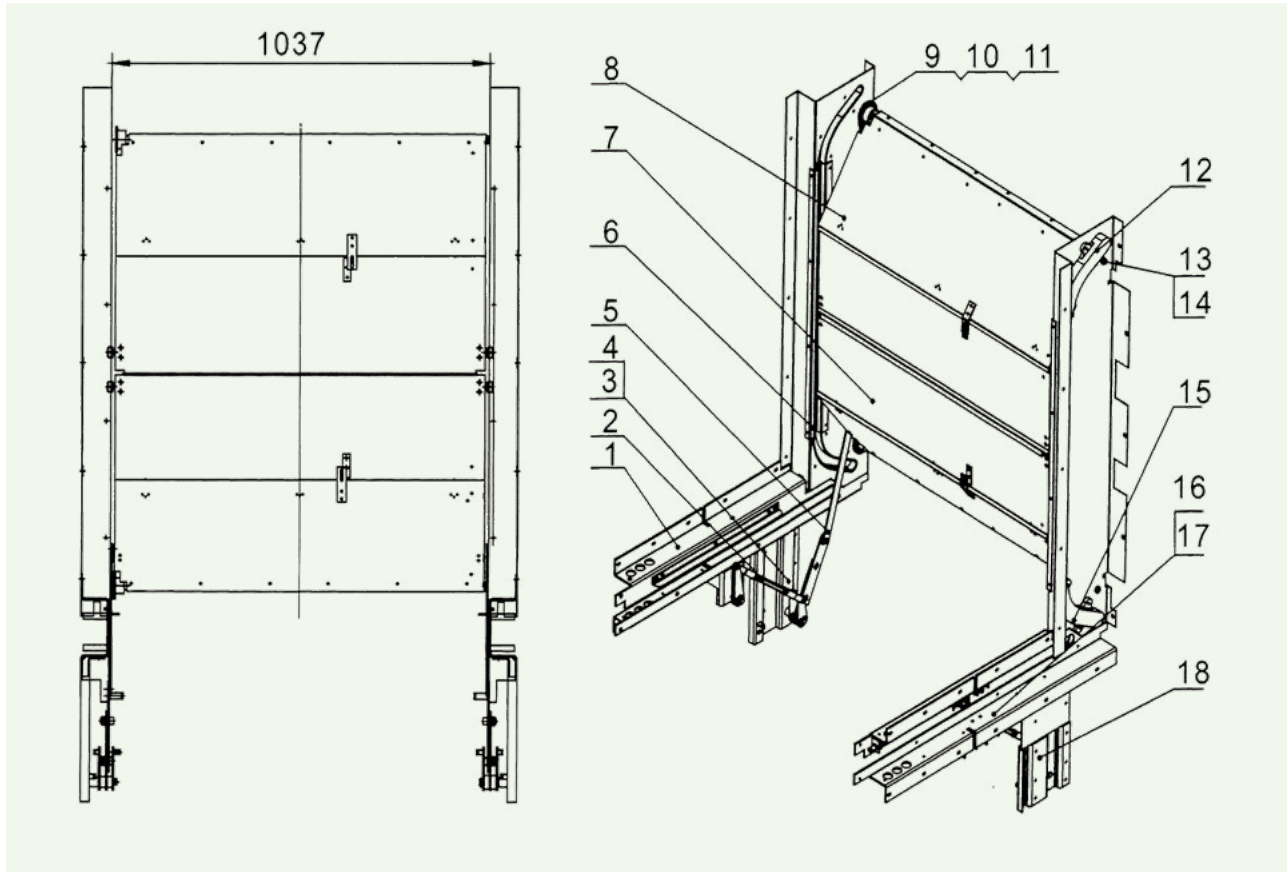
1. The GPL-40.5 bevel gear mechanism is for manual operation of GPJN22-40.5/31.5 Indoor High Voltage Earthing Switch, applicable for GPN1-40.5 switchgear and other similar equipment.
2. The rotation angle of operation shaft is $270^{\circ} : 90^{\circ}$ (Open-Close).
3. The operation mechanism as the picture showed is right operation of the close center line as operation mechanism's axis line, left operation will reverse assembly in factory. Users can assembly it on the left side as picture showing.
4. The V shape axis hole in the mechanism installed earthing switch main axis. Draw attention when mechanism fixed with cabinet.
 - a) In the operating rotation axis line device, small bevel gear should be engaged at large bevel gear teeth on the No. 3-4 position. Otherwise it will cause not reach the requirement of rotating corner.
 - b) The square core connection rod matching with the user's connection sleeve with holes drill 2- $\Phi 8$, front cabinet operating handle selected the best position for well operation.
 - c) Suggest to select $\Phi 16 \times 700$ single rod operation handle with suitable operation force.
5. Earthing switch can match a 1NO 1NC or 2NO 2NC micro-switch (Common type without micro-switch) for the open-close status indicating and electric control.



Operation way category	Operation mechanism rotating axis start position	Mechanism installed in main shaft position
1	Close position	Right operation
2	Close position	Left operation
3	Open position	Right operation
4	Open position	Left operation

Shutter Assembly and Guide Rail Assembly for GPN1-40.5kV Switchgear

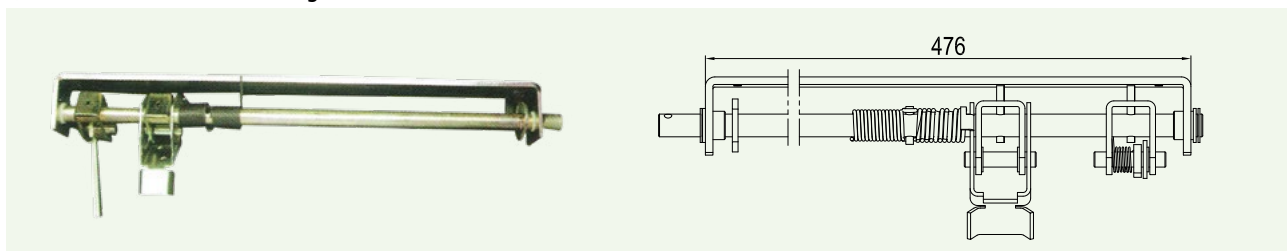
36kV(40.5kV) Guide shutter assembly mechanism device 5GP.320.036 (middle-plated cabinet width 1200mm)



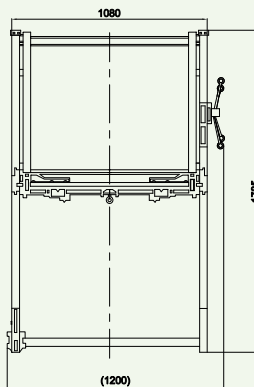
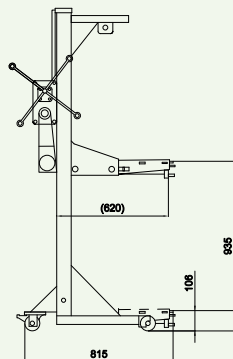
Middle-placed guide rail and shutter assembly 5GP.320.036(for Cabinet width 1200mm Width)

No.	Description	Drawing no.	Qty. /Set	No.	Description	Drawing no.	Qty. /Set
1	Left guide rail assembly	8GP.260.026	1	1	Axle sleeve	8GP.211.095	2
2	Drive rod assembly	5GP.174.107	2	2	Pin	8GP.993.081	2
3	Left connection rod assembly	5GP.238.025	1	3	Guide slot	8GP.357.001	2
4	Spring	8GP.288.059	2	4	Copper sleeve	8GP.211.096	2
5	Connection rod welded	5GP.174.109	2	5	Pin	8GP.993.080	2
6	Guide slot	8GP.357.003.2	2	6	Guide slot	8GP.357.002	2
7	Down shutter assembly	5GP.320.040	1	7	Right guide rail assembly	5GP.260.027	1
8	Upper shutter assembly	5GP.320.039	1	8	Guide rail spacer	8GP.193.015	2
9	Chain assembly	5GP.294.001	1	9	Right connection rod assembly	5GP.238.026	1

40.5kV Guide Rail Interlocking 5GP.363.019



● GPC-1 Multi-functional transfer trolley

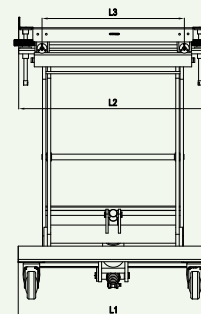
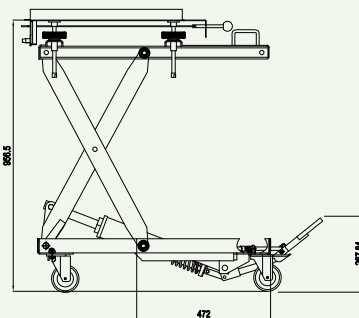


Note:

1. Designed hanging device, can hanging vacuum circuit breaker handcart, easy on-site maintenance.
2. The bracket can be adjusted, cabinet width 650, 800, 1000mm can apply.
3. Height of bottom only 11cm, basically the same tray. Easy to move from the tray to trolley.
4. Gravity setting reasonable, compared with ordinary transport vehicle to move smoothly.

Holding weight: 300kg

● GPC-2 Hydraulic lift transfer trolley

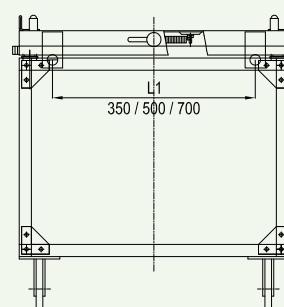
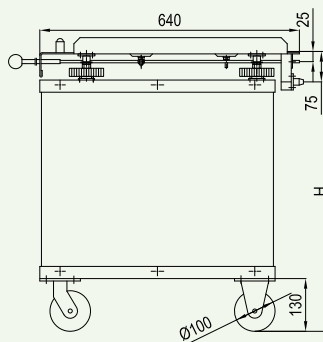
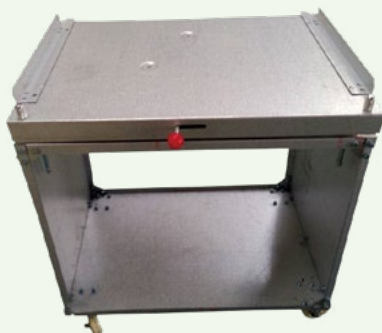


Holding weight: 400kg Lifting height: 940mm Folded height: 310mm

Note: This type suit for 12kV /24 kV use, and cabinet width 650mm, 800mm, 1000mm.

Model	L1	L2	L3
GPC-2-650	520	515	350
GPC-2-800	670	665	500
GPC-2-1000	870	865	700
GPC-2-1200	870	1075	700

● GPC-3 Simply type transfer trolley

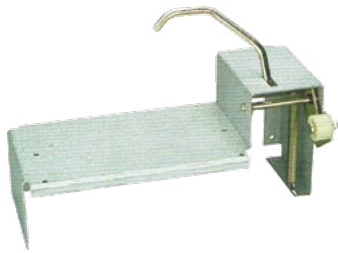


Holding weight: 300kg

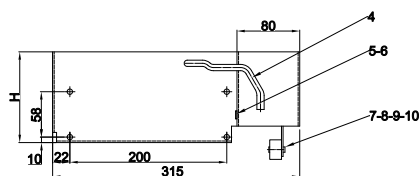
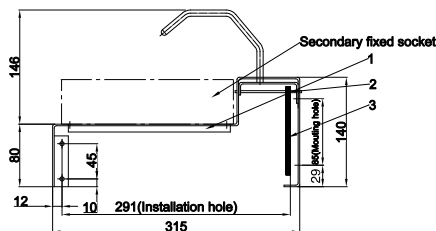
Note: This type suit for 12kV /24 kV use, and cabinet width 650mm, 800mm, 1000mm.

Accessories for High Voltage Switchgear 12~40.5kV

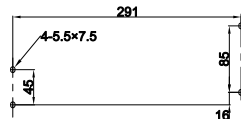
● Secondary socket interlock mechanism 5GP.043.017



Outline and installation dimension



Holing dimension



Arrangement list of secondary socket interlock mechanism 5GP.043.017

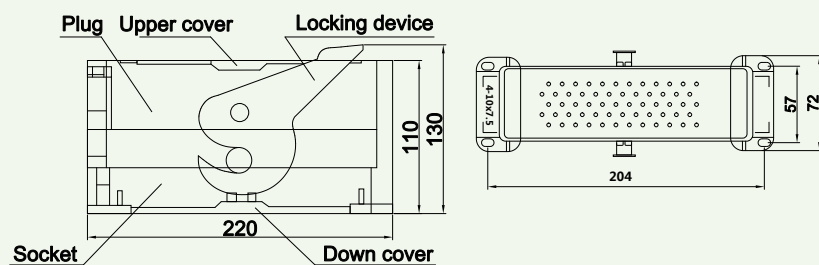
No.	Name	Drawing no.	Qty. (pc/set)
1	Bracket	8GP.043.017.1-4	1
2	Roller	8GP.224.021	1
3	Extension spring	8GP.288.015	1
4	Connection rod welding joint	5GP.174.017	1
5	Axis	8GP.200.020	1
6	Open ring 6	GB896-88	2
7	Bolt	8GP.900.010	1
8	Nut M5	GB6170-86	1
9	Washer 5	GB93-87	1
10	Washer 5	GB97.1-85	1

Selection table of secondary socket interlock mechanism 5GP.043.017 middle bracket 8GP.043.017.1-4

Name	Code	H(mm)	Remark
Bracket	8GP.043.017.1	136	For 1250A VD4 circuit breaker and other same size handcart
	8GP.043.017.2	116	For GPNV Circuit breaker handcart
	8GP.043.017.3	126	For 1600-2500A VD4 circuit breaker handcart and other same size handcart
	8GP.043.017.4	80	For 3150A VD4 circuit breaker handcart and other same size handcart
	8GP.043.017.14	100	For special

Note: please specify the bracket code when ordering.

● GPZD-58 secondary plugin



Usage

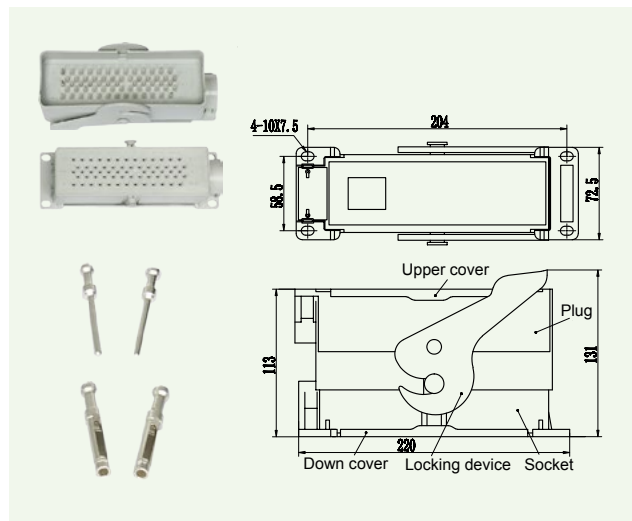
GPZD-58 secondary plugin base is for secondary connection of GPN1 (for GPNV, VD4) series middle-placed high voltage switchgear

Basic data

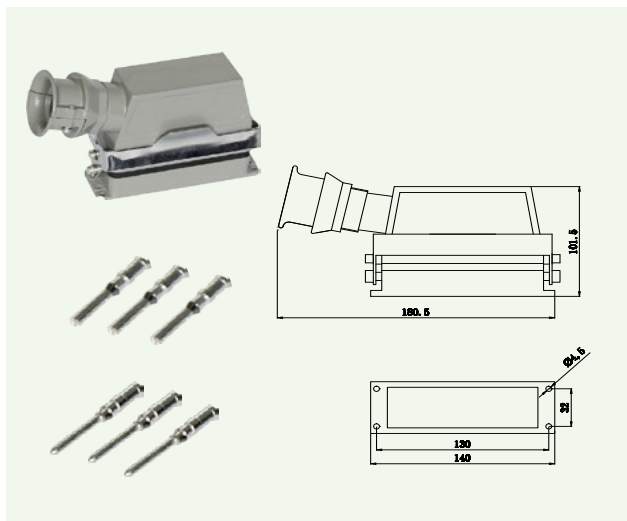
Rated voltage: AC 380V, DC 220V; Rated current: AC 16A, DC 10A; Mechanical life: 2000 times.

Note: The wiring holes of the arrange pins (with jammed spring), plug holes (with jammed spring) arranged for socket is for 1.5mm² and smaller wire, if need 2.5mm², 4mm², please specify separately.

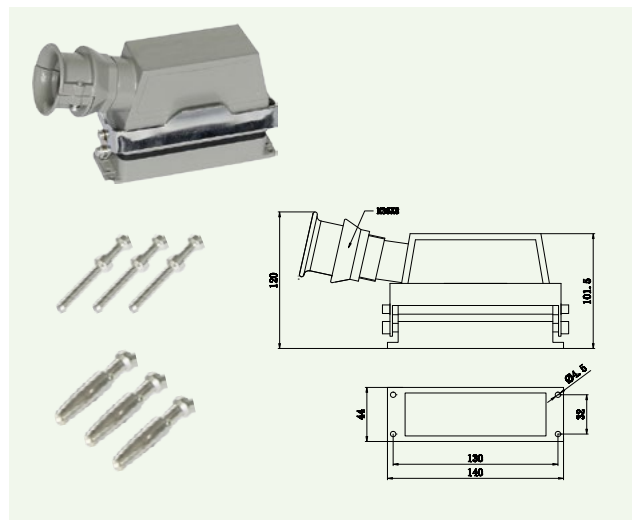
● GPJZ-64 Core secondary plugin



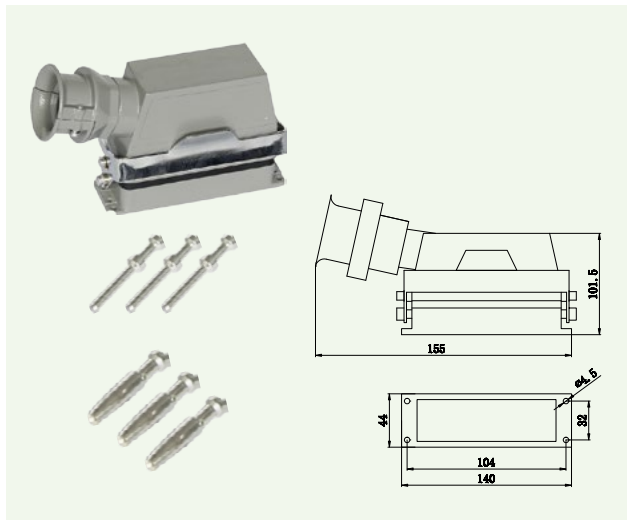
● GPCD-64 core secondary plugin



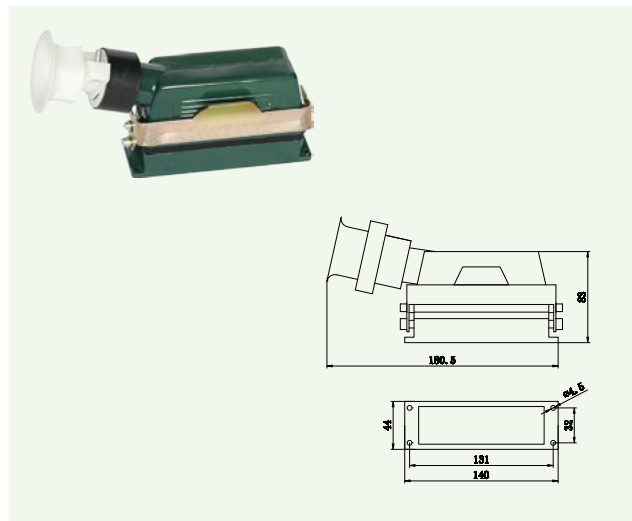
● GPCD-46 core secondary plugin



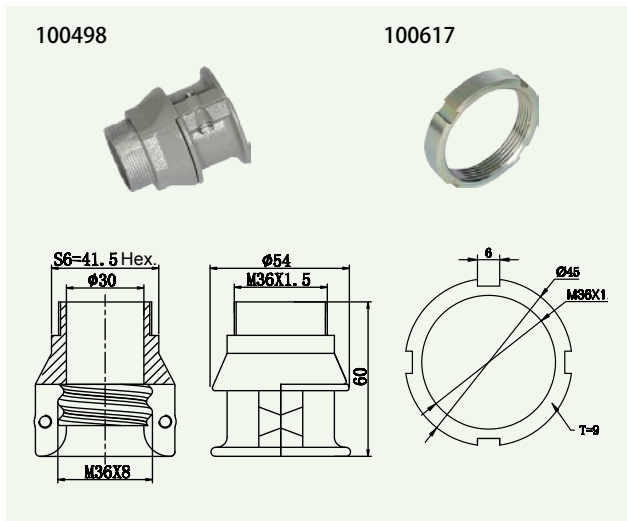
● GPCD-32 core secondary plugin



● GPYN-24 core secondary plugin



● Accessories(100497)



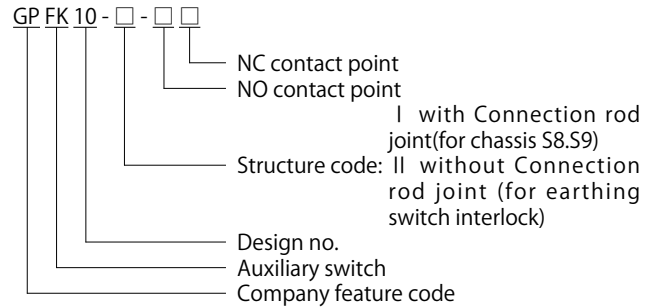
Accessories for High Voltage Switchgear 12~40.5kV

Auxiliary switch



GPFK10- I - □□ Auxiliary switch GPFK10- II - □□ Auxiliary switch

Model and meaning

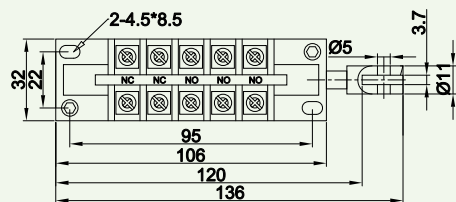


Main technical parameter

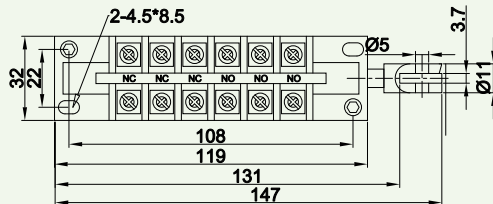
Rated voltage: AC 660V Rated frequency: 50Hz, 60Hz, Rated current: 10A

GPFK10-I- □□ outline installation dimension

5 groups contacts

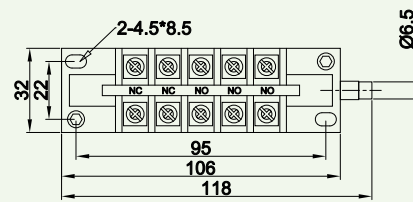


6 groups contacts

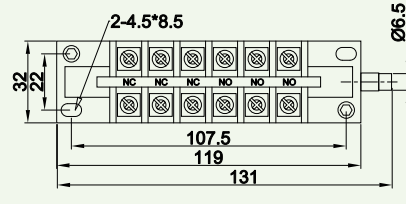


GPFK10-II - □□ outline installation dimension

5 groups contacts

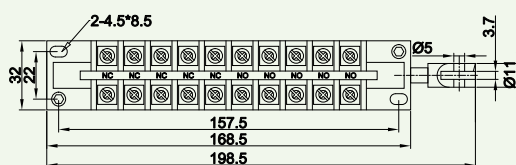


6 groups contacts



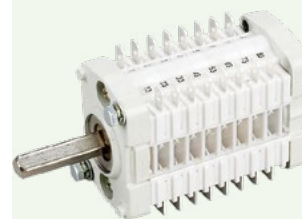
Note: This products provides 5NO(50), 5NC(05), 4NO 1NC(41), 1NO4NC(14), 3NO2NC(32), 2NO3NC(23), 6NO(60), 6NC(06), 5NO1NC(51), 1NO5NC(15), 4NO2NC(42), 2NO4NC(24), 3NO3NC(33) etc. as requirement.

GPFK10-I- □□ auxiliary switch



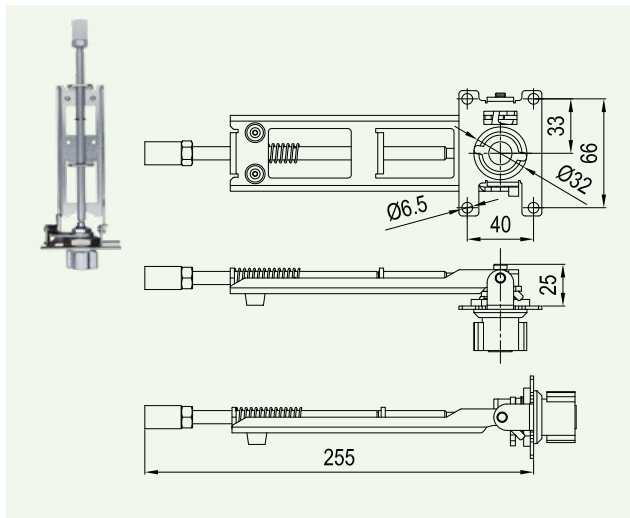
Remarks: Can composed of 10 NO: GPFK10-I-100, 5NO 5NC:GPFK10-I-55, 9NO 1NC: GPFK10-I-91, 8NO 2NC: GPFK10-I-82 etc., please specify when ordering.

GPF10-II/W Series auxiliary switch

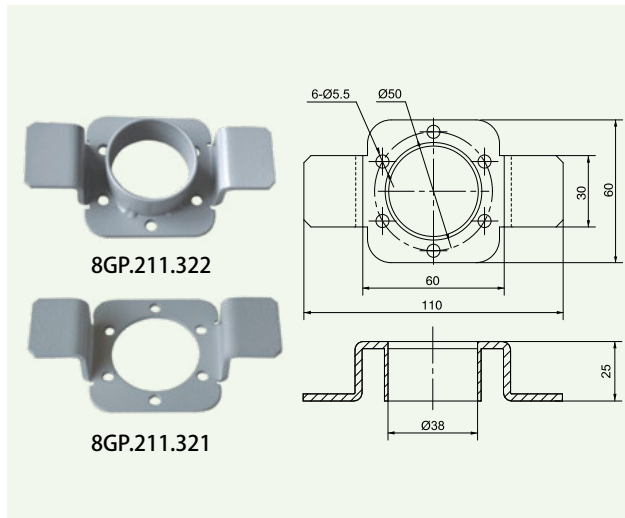


No.	Model	Contacts	L
1	GPF10-4 II/W	2NO 2NC	40
2	GPF10-6 II/W	3NO 3NC	47
3	GPF10-8 II/W	4NO 4NC	54
4	GPF10-10 II/W	5NO 5NC	61
5	GPF10-12 II/W	6NO 6NC	68
6	GPF10-14 II/W	7NO 7NC	75
7	GPF10-16 II/W	8NO 8NC	82

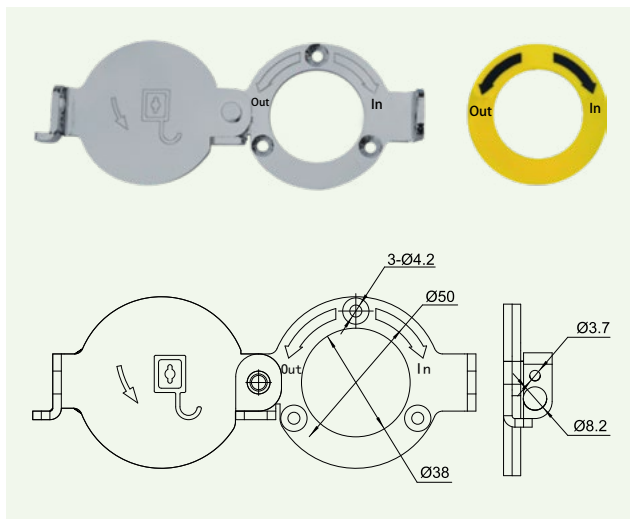
● 5GP.259.003 Emergency open device



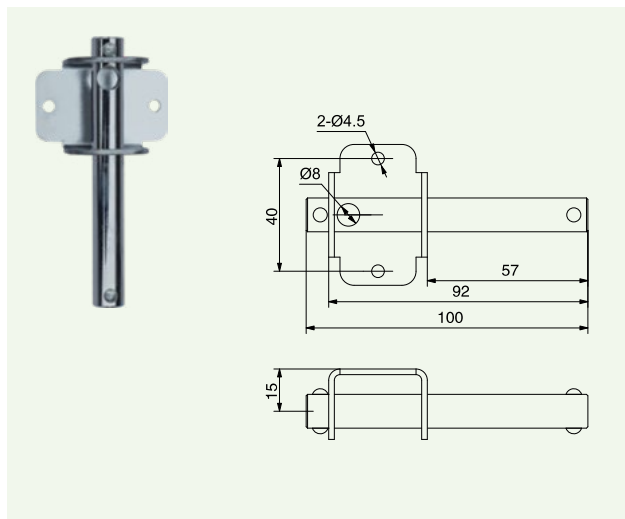
● Cabinet door inner blocking (suit for uneven doors and vcb chassis with middle door interlocked)



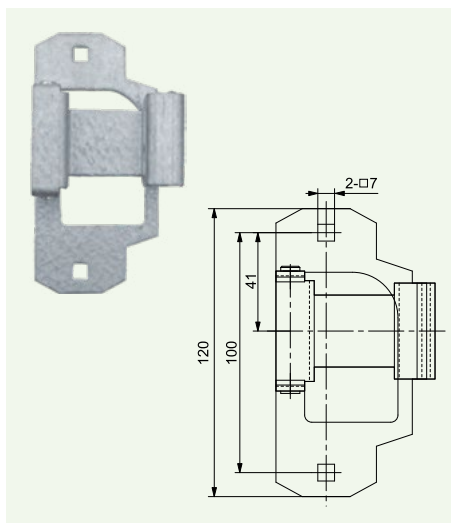
● Middle door padlock holder 5GP.161.022



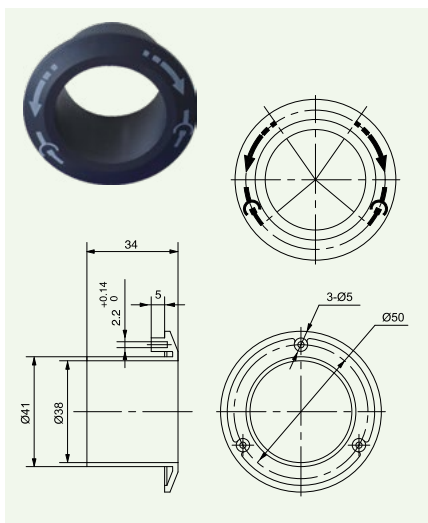
● Padlock piece 5GP.161.018



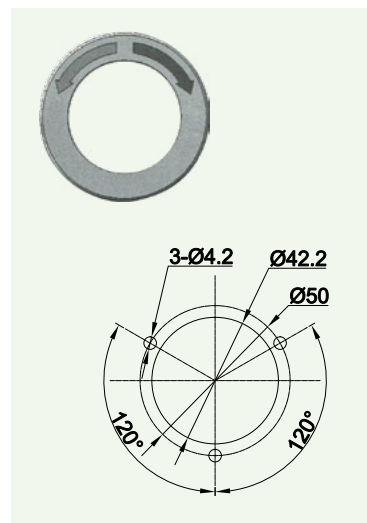
● Earthing switch padlock piece 5GP.161.010



● Chassis in-out marks holder 8GP.869.030



● 8GP.869.001 Chassis in-out tag

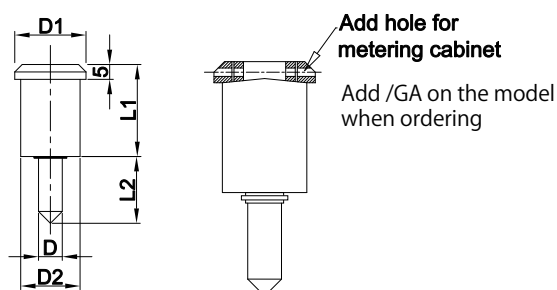


Accessories for High Voltage Switchgear 12~40.5kV

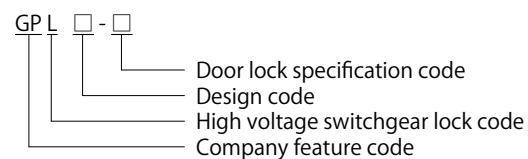
● GPL1 high voltage switchgear door lock



GPL1 installation dimension



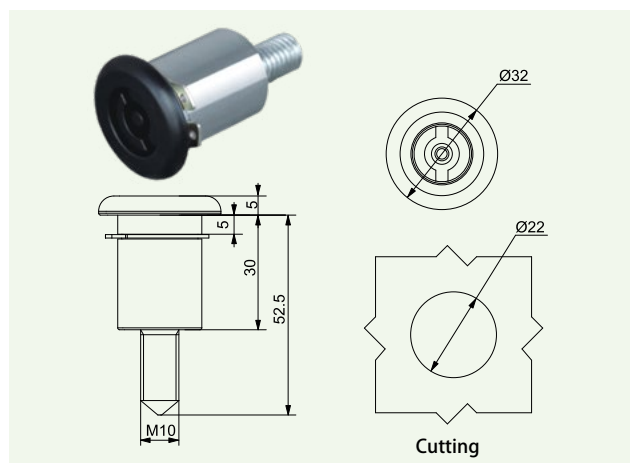
Model and meaning



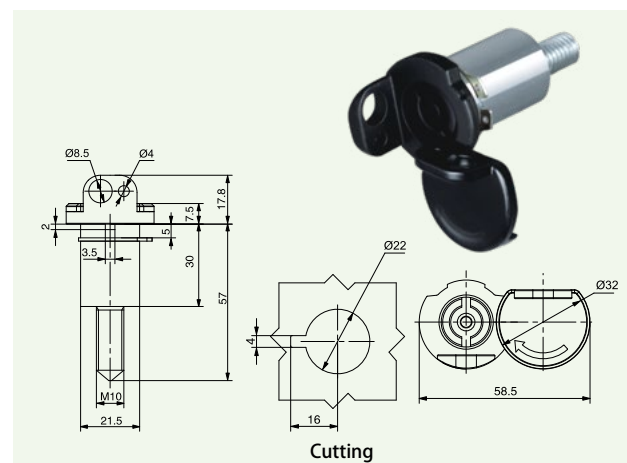
GPL1 high voltage door lock dimension (Unit: mm)

Model	D1	D2	D	L1	L2
GPL1-1	Φ 24	Φ 20	M8	31	22.5
GPL1-2	Φ 30	Φ 22	M10	35	20.5
GPL1-3	Φ 24	Φ 20	M8	31	34.5
GPL1-4	Φ 30	Φ 22	M8	35	20.5
GPL1-5	Φ 30	Φ 22	M10	35	29
GPL1-6	Φ 30	Φ 22	M10	40	20.5
GPL1-7	Φ 30	Φ 22	M8	27	23
GPL1-8	Φ 30	Φ 22	M10	45	20.5
GPL1-9	Φ 30	Φ 22	M8	35	25
GPL1-10	Φ 30	Φ 22	M10	31	24.5

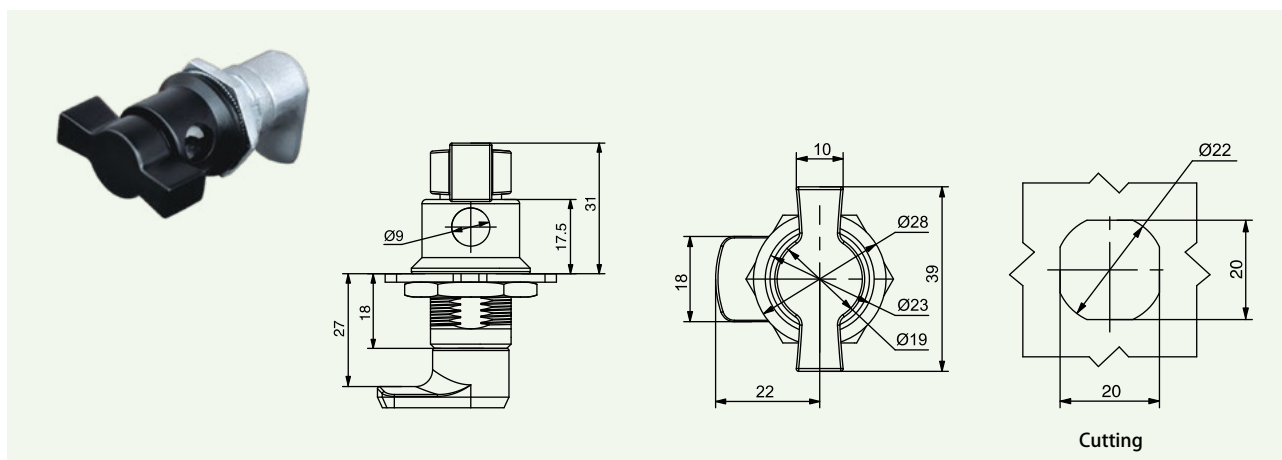
● Door Lock GPL2-2P



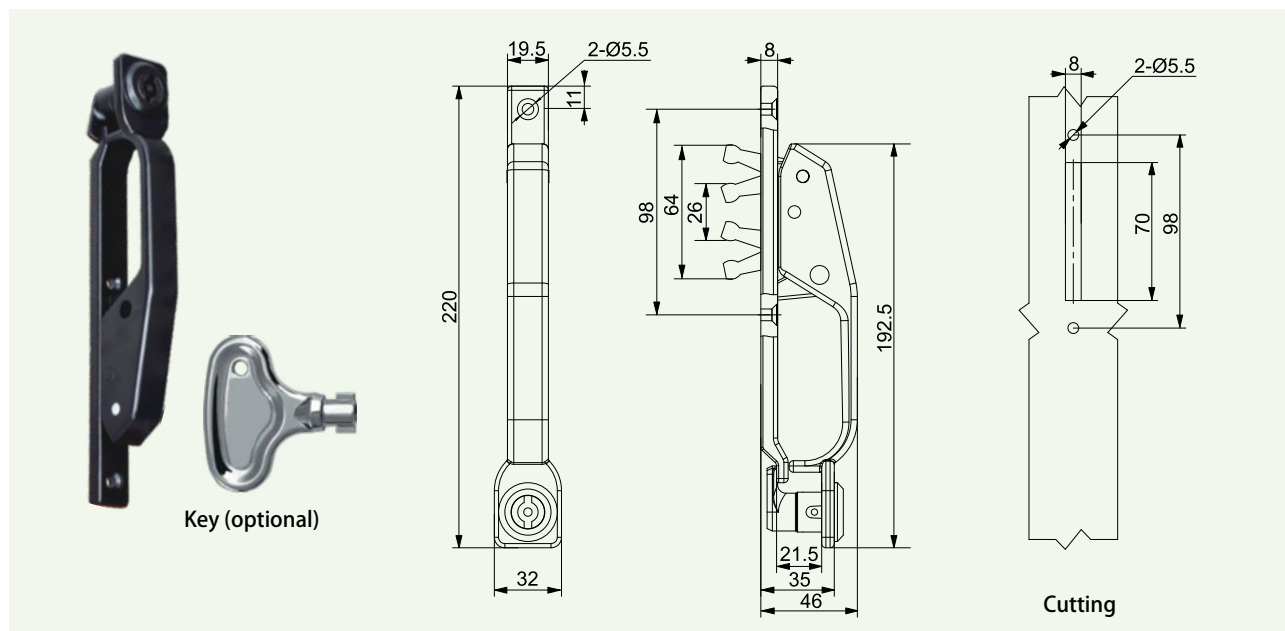
● Door Lock GPL2-1P



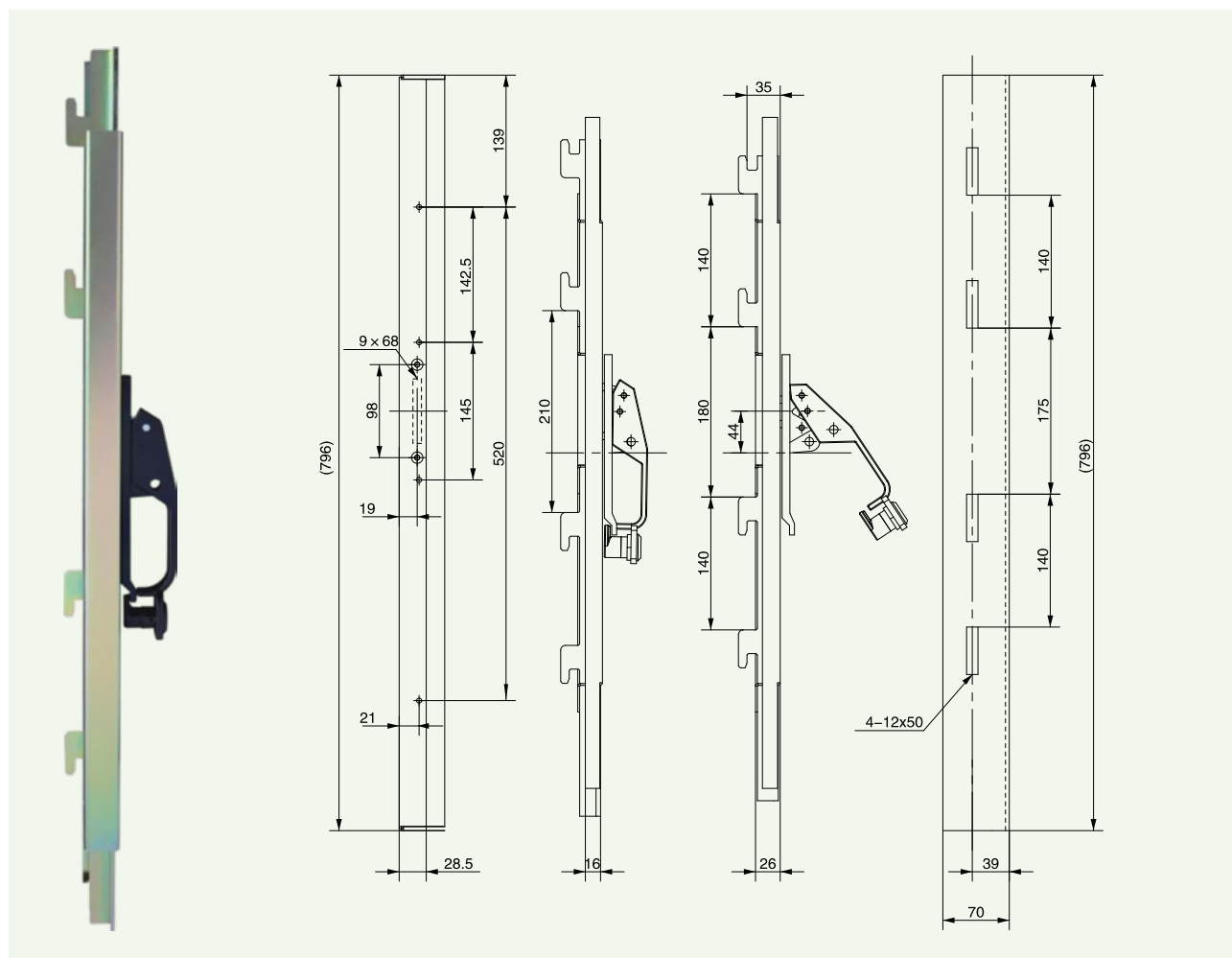
● Door Lock GPL3-1P



● Cabinet Door Lock GPL4-1P

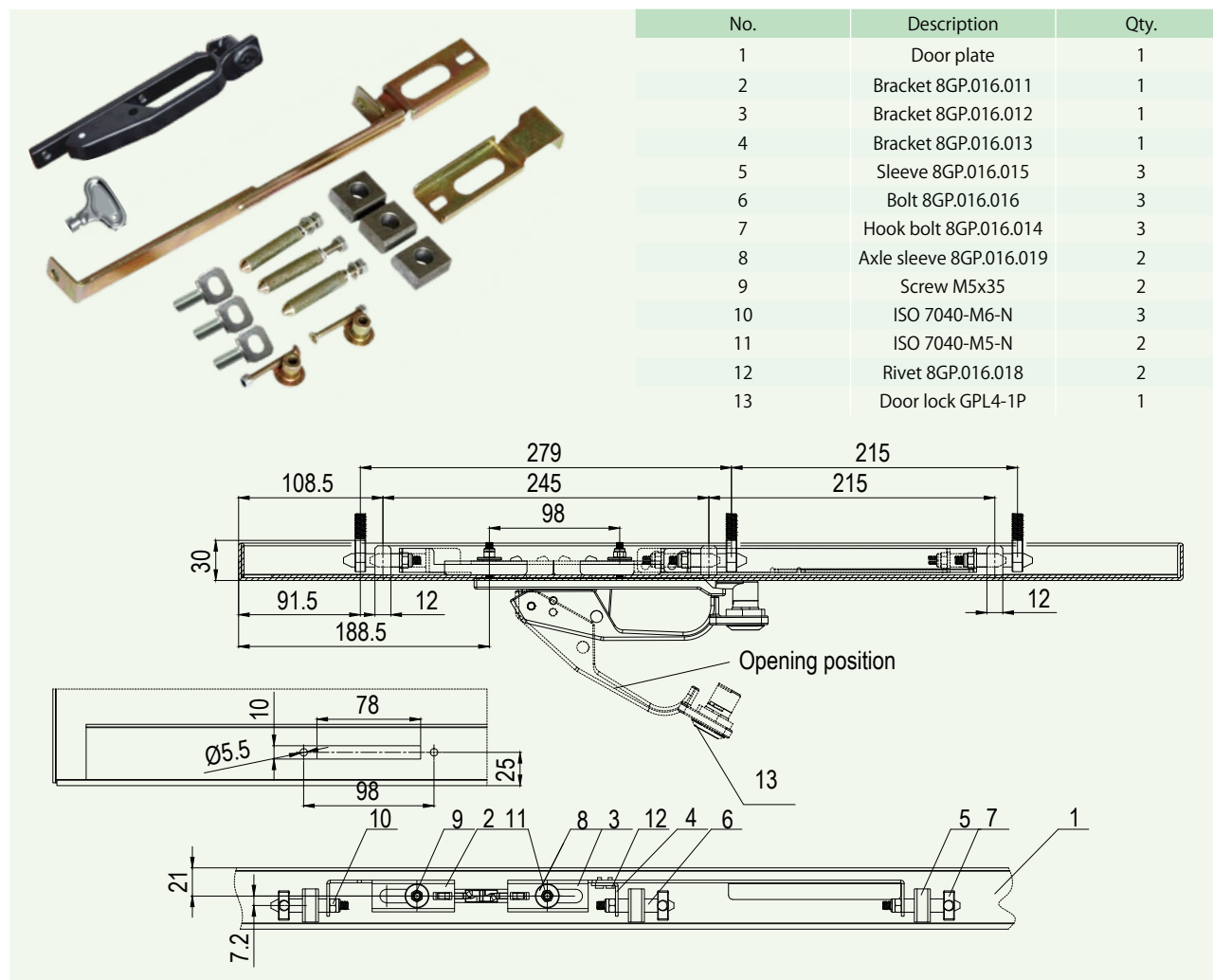


- Door lock mechanism type 1

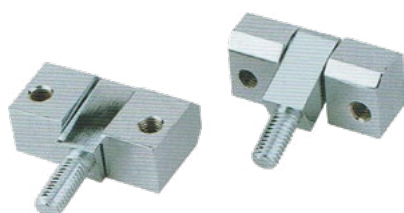


Accessories for High Voltage Switchgear 12~40.5kV

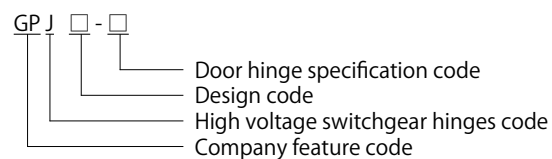
Door lock mechanism type 2



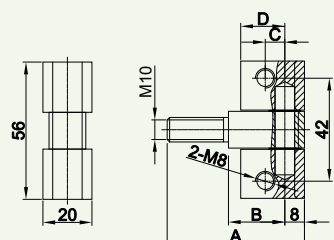
GPJ1- □ high voltage cabinet door hinge



Model and meaning

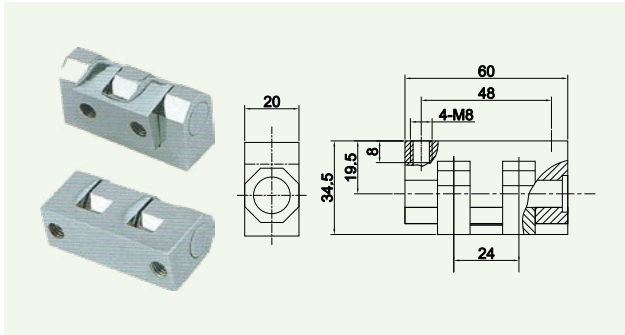


Model and installation dimension of GPJ1- □ high voltage cabinet door hinge

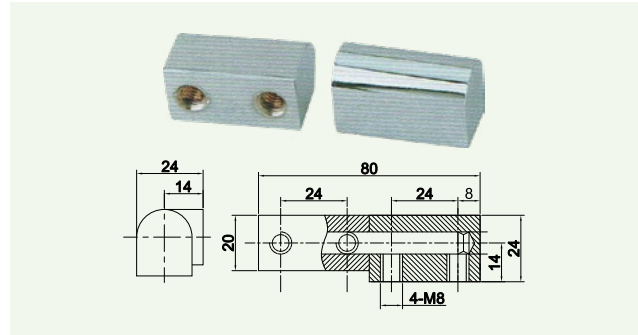


Model	Drawing no.	A	B	C	D	2-M8
GPJ1-1	5GP.872.011	55	23	8	18	through-hole
GPJ1-2	5GP.872.011.1	56	26	12	22	
GPJ1-3	5GP.872.012	55	23	8	18	Blind hole
GPJ1-4	5GP.872.012.1	56	26	12	22	

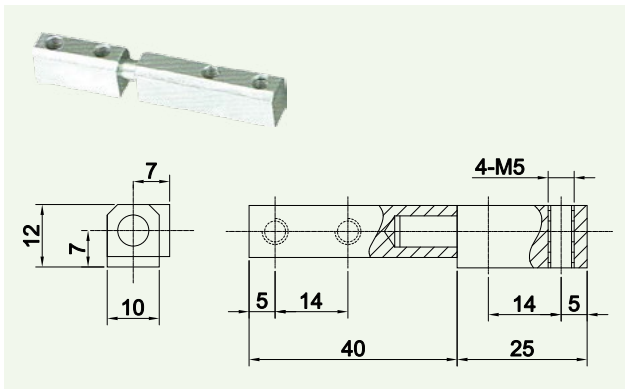
● GPJ2-1 High voltage switchgear door hinges



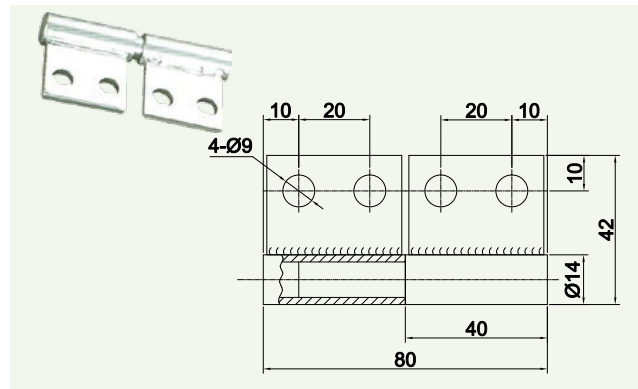
● GPJ3-1 high voltage switchgear door hinge



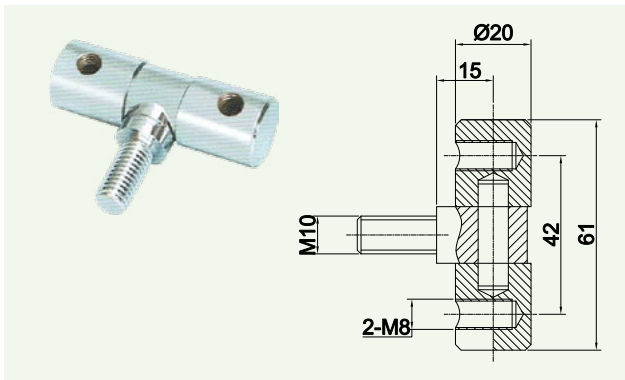
● GPJ4-1 Outline and installation dimension



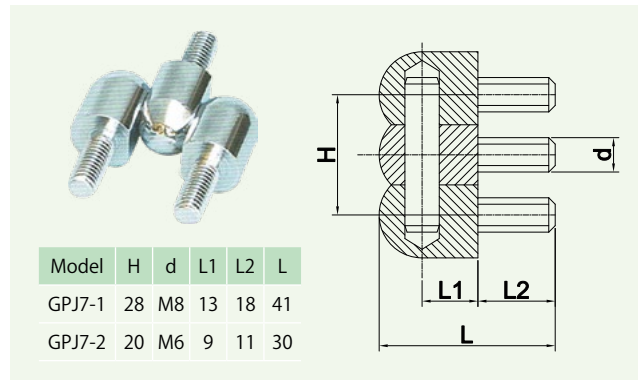
● GPJ5-1 Outline and installation dimension



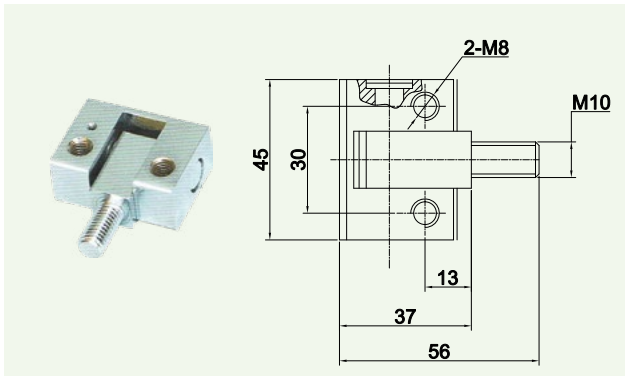
● GPJ6-1 Outline and installation dimension



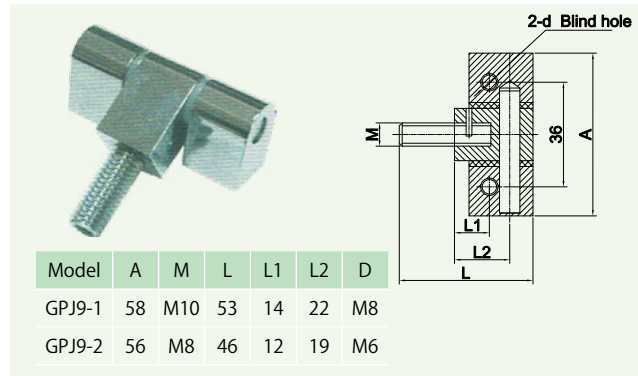
● GPJ7 Outline and installation dimension



● GPJ8-1 High voltage switchgear hinge

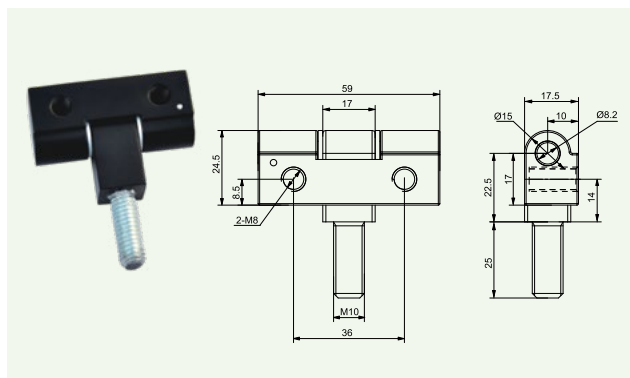


● GPJ9 High voltage switchgear hinge

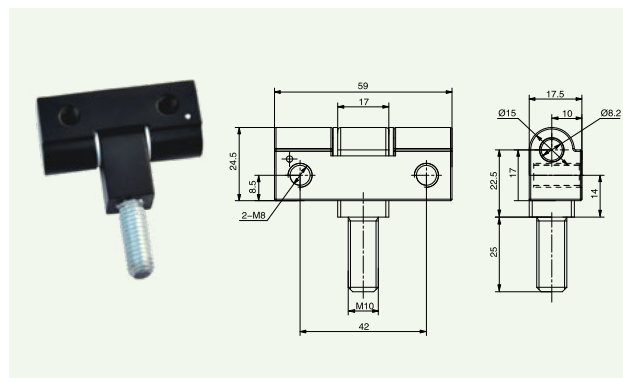


Accessories for High Voltage Switchgear 12~40.5kV

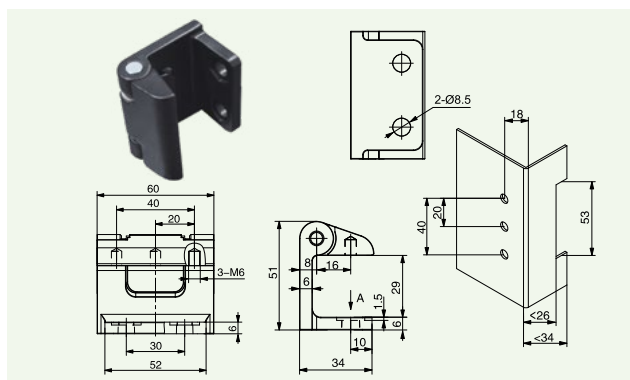
● Hinge GPJL9-1P



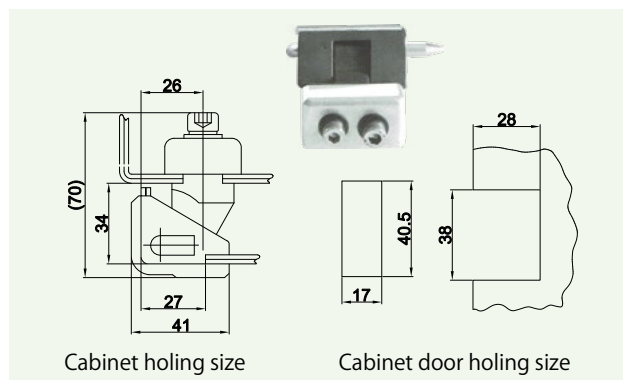
● Hinge GPJL9-3P



● Hinge GPJL10-2P

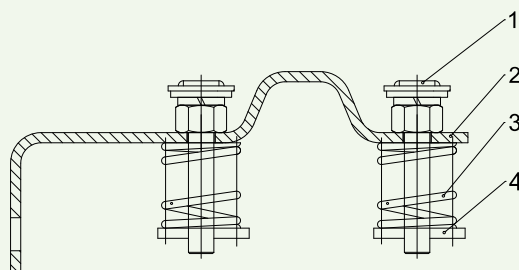


● High voltage switchgear hinge GPJ10-1

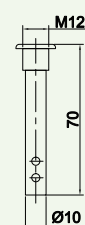


● Earthing bus arrangement parts

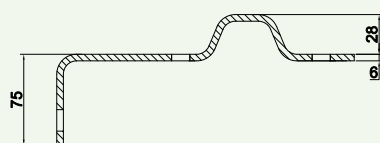
Earthing bus assembly: 5GP.588.003



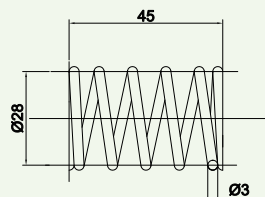
1. Pin: 8GP.993.014



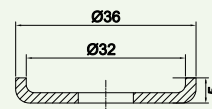
2. Earthing bus: 8GP.588.003



3. Earthing bus pressure spring: 8GP.282.009



4. Sleeve: 8GP.211.068



Protected shield U-shape tube heater

The heater is specially designed for all kinds of switchgears or other electrical equipments. It can increase temperature, dispel humidity, keep dryness. If used together with temperature and humidity controller, it can make these functions operate automatically. The heater utilizes high quality tube core, stainless casing and connection terminals. The base of connection terminals is made of refractory ceramics to have strong corrosion resistance. It can prevent the human body from being scalded with the protective casing and have high reliability and longspan life. It is beautiful in design, good in insulation, high in compression strength, easy in installation.

Technical parameters

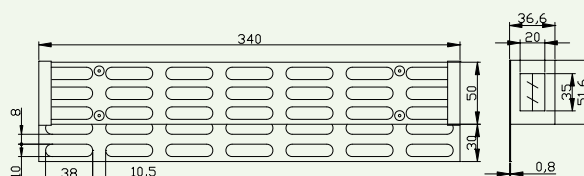
Rated voltage	AC220V
Power frequency withstand voltage	$\geq 2kV/1min$
Insulation resistance	Cold state: $\geq 100M \Omega$
	Hot state: $\geq 15M \Omega$
Shell temperature	$\leq 60^{\circ}C$
Environment temperature	$-15^{\circ}C$ to $+50^{\circ}C$
Protection class	IP20
Working pattern	Long term continuous operation



Optional model

Model	Material	Power
GPR05102S4	Stainless Steel	50W
GPR05102S1	Stainless Steel	100W
GPR05102S2	Stainless Steel	150W
GPR05102S3	Stainless Steel	300W
GPR05102D4	Iron	50W
GPR05102D1	Iron	100W
GPR05102D2	Iron	150W
GPR05102D3	Iron	300W

Outline Dimension



Remark: could design as customer's requested.

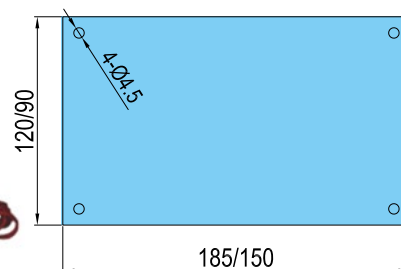
GPJR-G type silicone heater

This silicone heater is a new type of ultra-thin, anti-scalding and waterproof heater. It adopts silica gel molding technology and has the characteristics of small size, long life, uniform heat dissipation, waterproof and anti-scalding. Different power products have uniform appearance and installation size, very convenient to use.

Rated voltage: 220V, 110V

Product specifications: 50W, 100W, 200W

Power(W)	Outline dimension(mm)	Holing distance(mm)
50~100	150x90x2.8	136x76
100~150	185x120x2.8	171x106



GPJR-F axial fan

Features

The series of fan casings are cylindrical, and the plastic blades are integrated with the motor and installed through flanges. The white fungus has the characteristics of small size, light weight and convenient installation, low noise, low vibration, reliable operation and excellent performance. The fan is mainly used for ground automatic control devices, chassis cabinets, electronic equipment, etc.

Rated voltage: AC 220V, 110V

Specification	Power(W)	Air volume	Weight(g)
80x80x25	14	18	210
92x92x25	14	30	250
110x110x25	17	60	320
120x120x25	12	66	350
180x180x60	50	300	950
Φ 220x60	42	380	1500

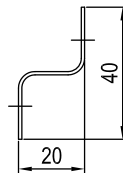
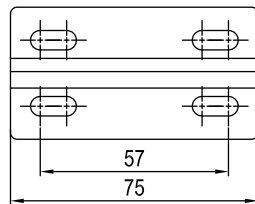


Accessories for High Voltage Switchgear 12~40.5kV

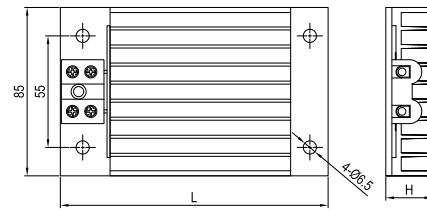
Space heater Aluminum Alloy Heater



GPJR heater outline dimension



GPJR heater outline dimension



Features

GPJR series aluminum alloy comb heater is a new electric heater dehumidifier designed for moisture-proof of electrical equipment. The heater compose of a special aluminum heat sink profiles and high quality alloy heating wire. It has a small, beautiful appearance, heat evenly, fast heat conduction, large heat dissipation area and other characteristics, thus ensuring the life of electric heating wire is longer than the average tubular heater, and can working long and reliable. In addition, the heater also has high dielectric strength and simple installation. GPJR series of temperature and humidity control can be achieved moisture-proof, anti-condensation and heating control automation for electric equipment.

GPJR heater outline dimension

Model	Heater power	L	W	H
GPJR-50	50W	110	98	22
GPJR-75	75W	110	98	22
GPJR-100	100W	128	103	26
GPJR-150	150W	128	103	26
GPJR-200	200W	140	103	26
GPJR-250	250W	163	100	26
GPJR-300	300W	163	100	26
GPJR-500	500W	200	100	30

Main technical data

Dielectric strength (wiring off the surface) > 2000V
Insulation resistance: > 10M
Continuous service life: > 5000 hours
Rated power: 50 ~ 500W \pm 10%
Operating voltage: AC 380V, AC 220V, DC220V, DC110

Note: if users need mounting bracket, Please specify when ordering.

GPL7-100 Cable Room lamp

Cable room lamp GPL7 series is alternative solution to the traditional cable room lights. Using LED as a light source, it can achieve the application design of high efficiency, high reliability and usability.

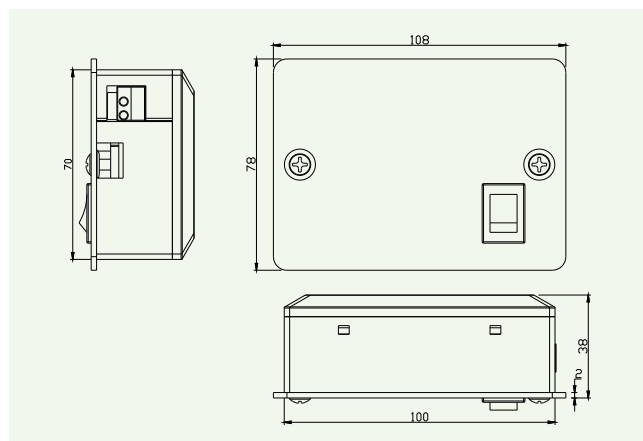
Product features

1. Energy Saving: Consume only 25% of normal lighting equipments with the same luminance.
2. Long Lifetime: 100000hrs, LED use constant current drive, 10 times longer than the traditional ones.
3. Environment Protection: LED is cold light source, there are no ultraviolet ray and infrared ray in the spectrum, so it is a green lighting source without any external radiation heat and harmful substance such as mercury.
4. Design: Using solid metal material shell, It has a very strong property.
5. Flexibility: Using import IC control circuit, it applies to more occasions with wide power supply input.
6. Others: the product is provide with power switch for a easy lighting control.



Technical parameters

Power supply	AC/DC 110V-220V
Luminary	Ultra bright LED
Luminance	$\geq 1000\text{Lux}$
Operating temperature	-25°C~+55°C
Lightning Impulse	2kV
Lifetime	>10000hrs
Voltage withstand	2000V/min
Power Consumption	$\leq 10\text{W}$
Hole-cutting size	71 \times 101mm
Connecting wire	14~26AWG



● GPL-10 Lighting

The GPL serial of LED light uses ultra-bright LED as luminary to lighten meter cabinet of all kinds of switchgear. It is a kind of high-class, cost-efficient, energy-efficient and environment-friendly lighting equipment.

Technical Parameters

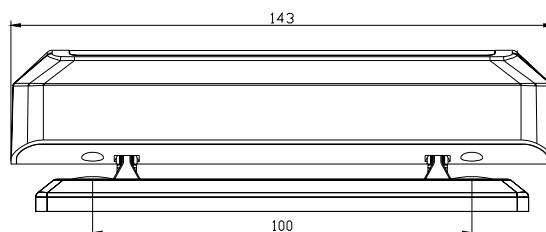
Voltage	100-240V AC/DC
Luminary	Ultra bright LED
Ambient Temperature	-25°C ~ +55°C
Ambient Humidity	20%RH ~ 90%RH
Lifetime	100000hrs
Lightning Impulse	2KV
Power Consumption	≤ 4W
Mounting Hole	Dia.4.4x2 spacing100 (mm)
Mounting Method	Mounted with M4 screw
Rotation Angle	40 degree (right/left)



Characteristics

1. Energy Saving
Consume only 25% of normal lighting equipments with same luminance.
2. Long Lifetime
10000hrs, LED use constant current drive, 10 times longer than the tradition.
3. Environment Protection
LED is a green luminary containing no hazardous material, like mercury. And without ultraviolet ray and infrared ray in the spectrum as cold light source, radiate no heat outside as well.
4. Design
With special structure to rotate lighting angel on the basis of actual need.
5. Flexibility
Apply to more occasions with wide power supply range design.

Outline dimension



● Lighting for switchgear



GPM-12 (Open, direct buckle installation)
GPM-22 (Open, Bracket bolt installation)

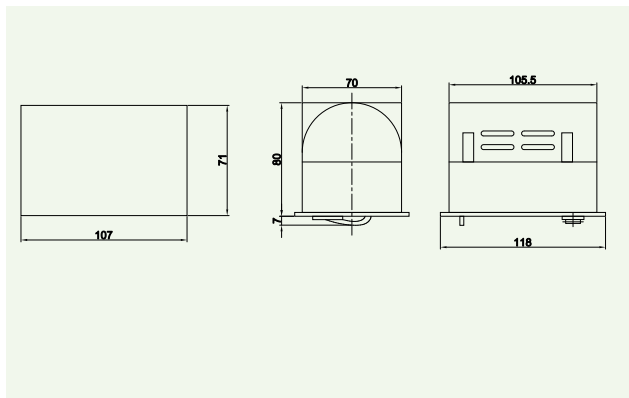
Features

GPM-series cabinet lighting, high strength, thermostability material for the enclosure and shield, has good transparency, small, good safety performance, replace the lamp conveniently. It is good lighting solution for various types of switchgear.

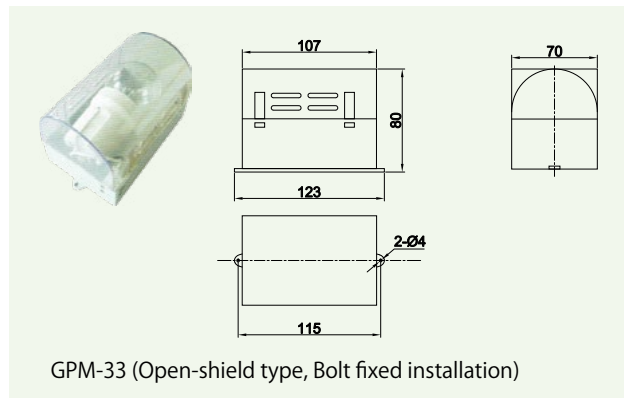
Technical data

1. Rated voltage: AC220V
2. Rated power: ≤ 25W
3. lamp end: E27/27 screw end
4. Ambient temperature: -20~60°
5. Altitude: ≤ 2000m

Lighting GPM-12, GPM-22 outline and installation dimension



GPM-33 outline and installation dimension



GPM-33 (Open-shield type, Bolt fixed installation)

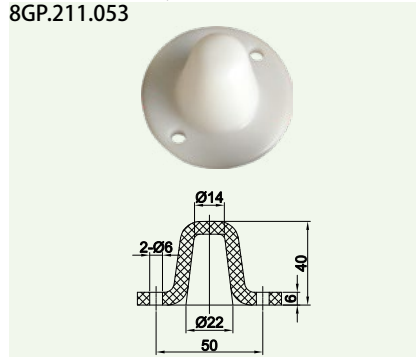
Accessories for High Voltage Switchgear 12~40.5kV

Other accessories for switchgear

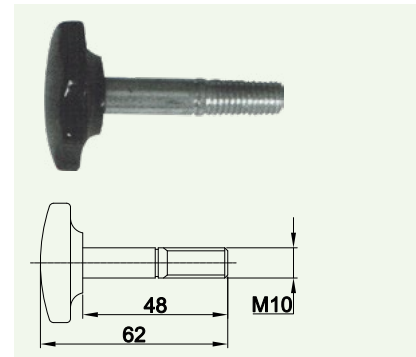
1. Nylon screw(Explosion-proof screws) M6 × 20



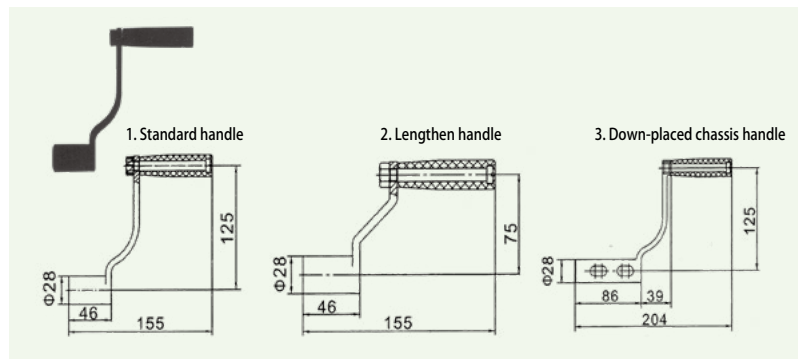
2. Transfer trolley positioning nut 8GP.211.053



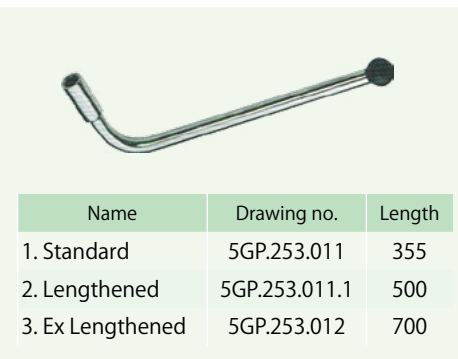
3. 5GP.989.001 Screw handle



4. Chassis handle



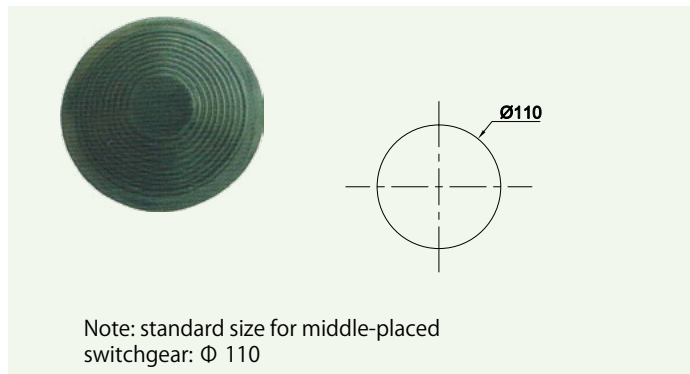
5. Handles for open and close the earthing switch



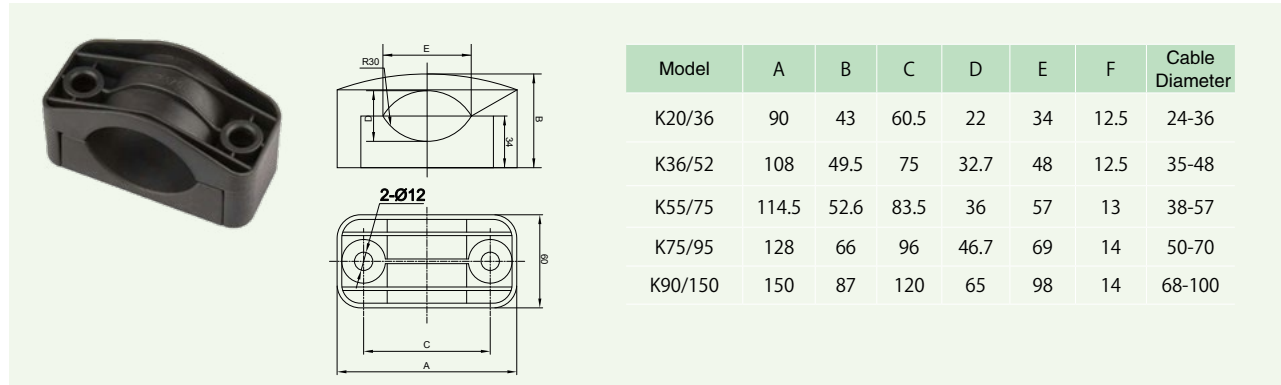
6. Locking solenoid



7. Tower-shape gasket ring Ø 110

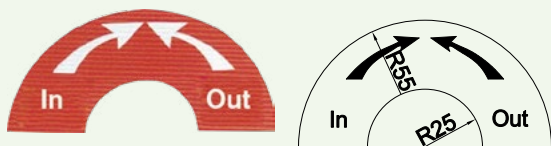


8. Cable clamp



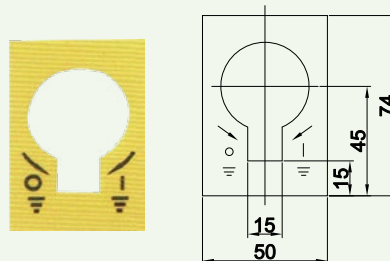
Marks

Shake in and out mark: 8GP.866.015



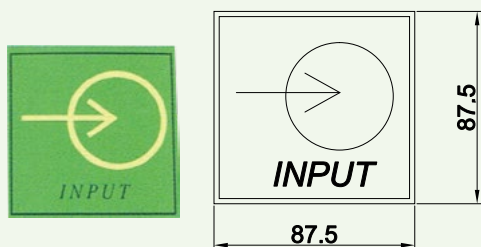
Note: Stickers

Earthing switch mark: 8GP.860.010



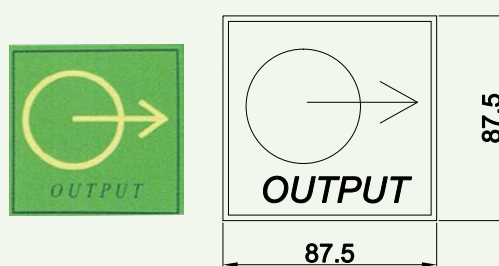
Note: please specify if need metal tag without sticker

Input mark: 8GP.866.012



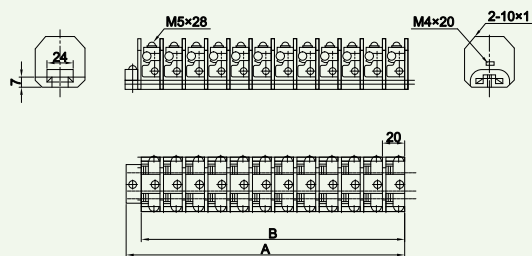
Note: Stickers

Output mark: 8GP.866.014



Note: Stickers

GPJ2- □ small busbar terminal



Features

GPJ2 small bus base can be fixed $\Phi 6$, $\Phi 8$ brass line incoming, cabinet connection by 2.5mm^2 wire, you can assemble sections according to requirements.

Basic data

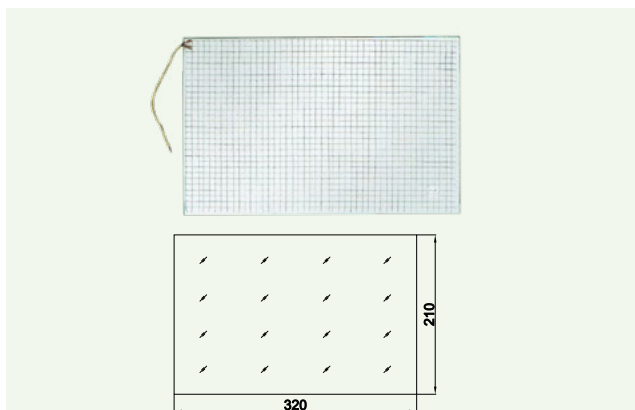
- ① Rated voltage: 660V;
- ② Rated current: 25A;
- ③ Specification: 2.5mm^2 lines

Note: please specify the section quantity when ordering, eg. GPJ2-10, 12, 15, 17, 20, 22, 24, 26 sections etc.

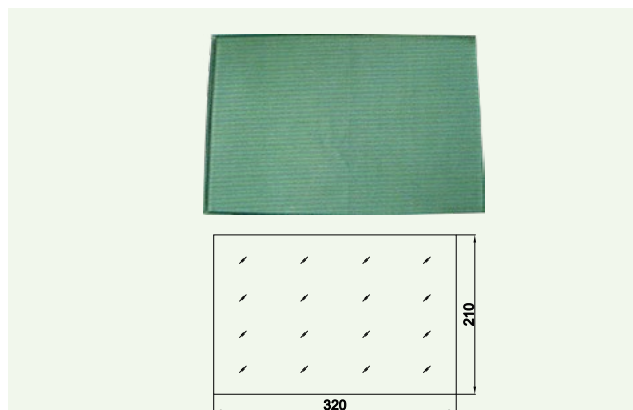
Sections	10	12	15	17	20
A	203	255	315	355	415
B	205	243	303	343	403

Accessories for High Voltage Switchgear 12~40.5kV

- Tempered glass(Double layer) with screen shield and earthing line(100616)

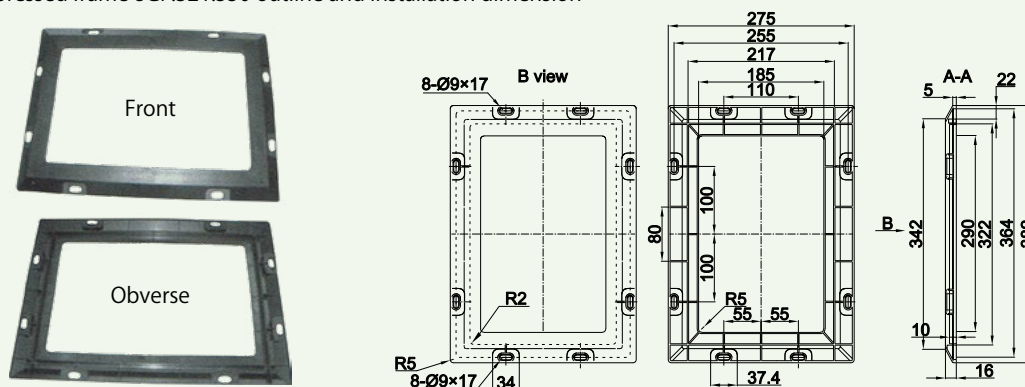


- Tempered glass(Single layer) (100415)
Tempered glass(Double layer) (100615)



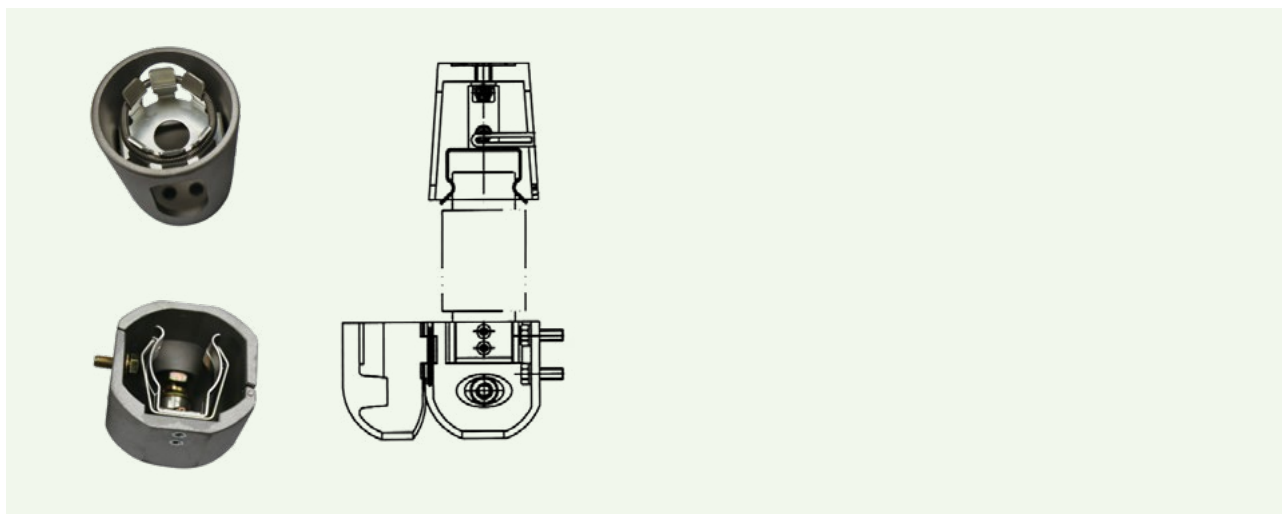
- Tempered glass frame (glass) 320X210

Glasses pressed frame 8GP.321.550 outline and installation dimension

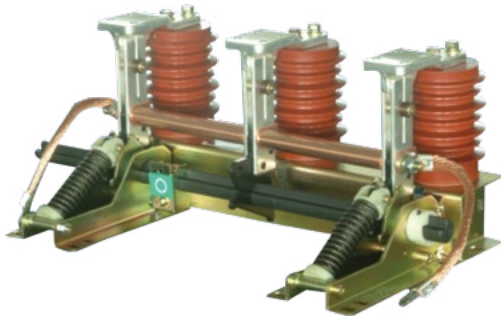


Features: glass pressed frame is a new product specially designed for the observation window of GPN1 switchgears or other cabinets with observation window. It has simple structure, easy installation, suitable for high temperature and high voltage condition, and can effectively flame retardant, and improved the aesthetics of the viewing window on the switchgear, It can pressure 10mm toughened glasses (explosion-proof glass).

- Fuse clip 5GP.045.005/5GP.104.010.1



GPJN15-12/31.5kA Indoor High Voltage AC Earthing Switch



Products model and meaning

GP	J	N	15	-	12	/	31.5	-	□
									Pole distance (mm)
									Rated short-time withstand current (kA)
									Rated voltage (kV)
									Design code
									Indoor
									Earthing switch
									Company feature code

Description

GPJN15-12(7.2)/31.5 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 3.6kV-12kV, 3 phase, AC, 50(60)Hz; It has capacity of short-circuit close to protect the electrical equipment from damage, applicable for high voltage switchgear arrangement as the earthing protection when do maintenance.

Standard working condition

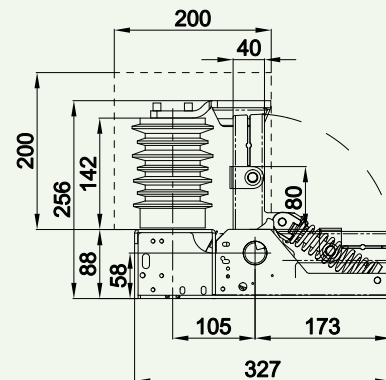
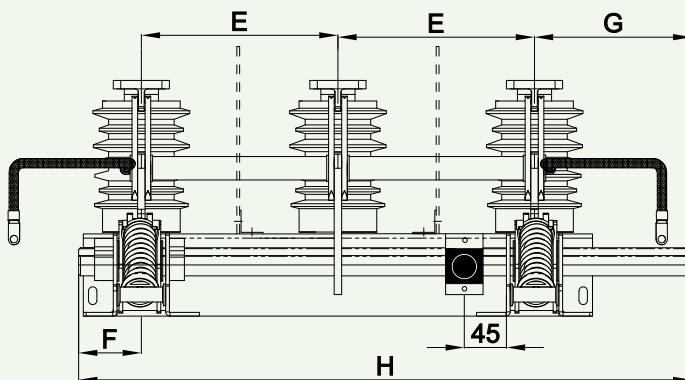
1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45°C, -25°C ;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

Special condition: Please specify when ordering.

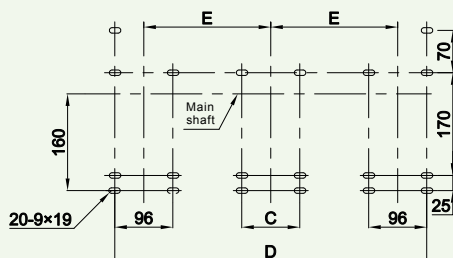
Main technical data

Items	Unit	Data
Rated voltage	kV	12
Rated short-time withstand current	kA	31.5
Rated short-circuit duration	s	4
Rated short-circuit close current	kA	80
Rated peak withstand current	kA	80
Rated insulation level		
Rated short-time power		42
Rated lighting impulse withstand voltage	KV	Phase to earth/ between phase
		75
Mechanical endurance	times	2000

GPJN15-12/31.5 Earthing switch outline and installation dimension



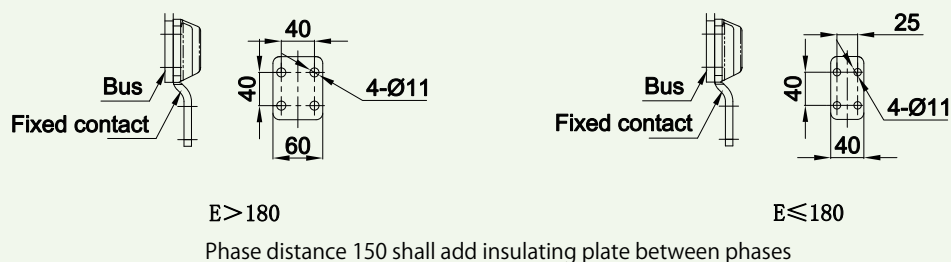
Holing dimension:



Products model	E	F	G	H	D	C
GPJN15-12/31.5-275	275	75	185	810	646.5	96
GPJN15-12/31.5-250	250	75	160	735	596.5	96
GPJN15-12/31.5-230	230	75	160	695	556.5	96
GPJN15-12/31.5-220	220	75	160	675	536.5	
GPJN15-12/31.5-210	210	75	160	655	516	
GPJN15-12/31.5-200	200	75	160	635	496.5	
GPJN15-12/31.5-180	180	75	160	595	456.5	
GPJN15-12/31.5-165	165	75	160	565	426.5	
GPJN15-12/31.5-150	150	75	140	515	396.5	

Indoor High Voltage AC Earthing Switch 12~40.5kV

Busbar joint surface dimension



Ordering notice

1. When ordering earthing switch, shall specify products model, rated voltage, phase distance, thermal stability current, with or without live indicator device. (If necessary, please specify the monitor model).
 2. If flexible connection lengths required longer. (Standard arrangement of the soft connection length $L = 240\text{mm}$).
 3. Number of the auxiliary switch, terminal needs to lead or not.
 4. Specify the operation direction: Left or right.
About the operation direction of left or right, which is the easiest to mistake when ordering, so my company will be as follows:
Stand in the front of the product, insulator in the top face, the movable blade in the bottom, then the main shaft in the left hand is left operating earthing switch, shown in Figure (1).
Stand from of the product, insulator in the top face, the movable blade in the bottom, then the main shaft in the right hand is right operating earthing switch, shown in Figure (2).
- Since the earthing switch can be installed in any orientation, you carefully check the required operation direction, According to the above instruction of Figure (1) and (2), to select the required left or right operating earthing switch.

5. If any special requirements, please contact with GreenPower to develop detailed specifications.

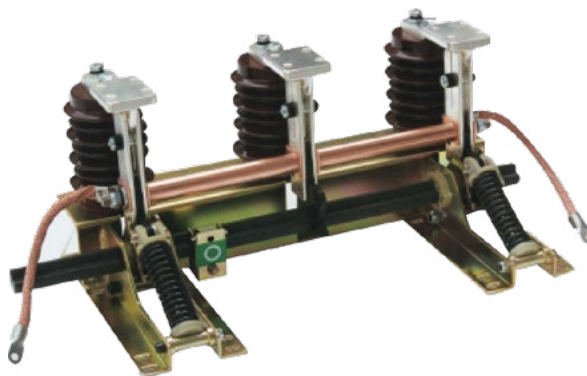


Figure (1) left operating earthing switch

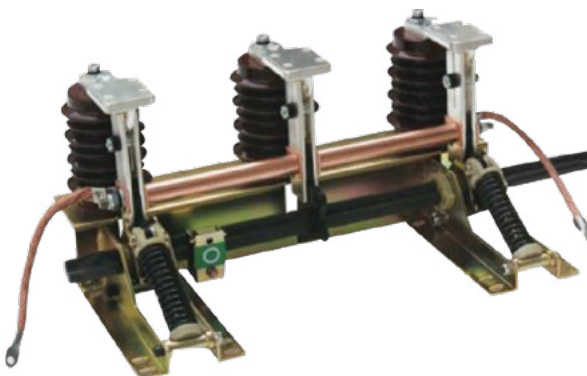
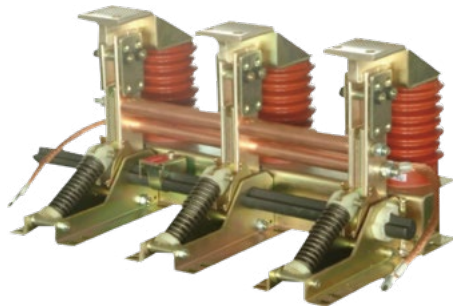
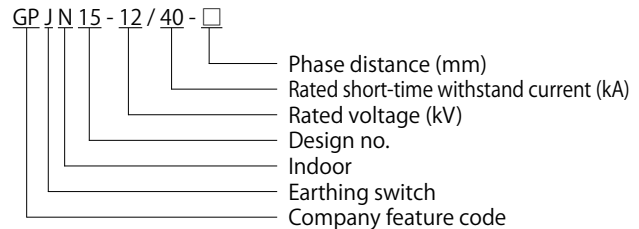


Figure (2) right operating earthing switch

GPJN15-12/40 Indoor High Voltage Earthing Switch



Products model and meaning



General of earthing switch

GPJN15-12(7.2)/40-100 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 3-12kV, 3 phase, AC, 50(60) Hz; It has capacity of short-circuit close to protect the electrical equipment from damage, Applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

Standard working condition

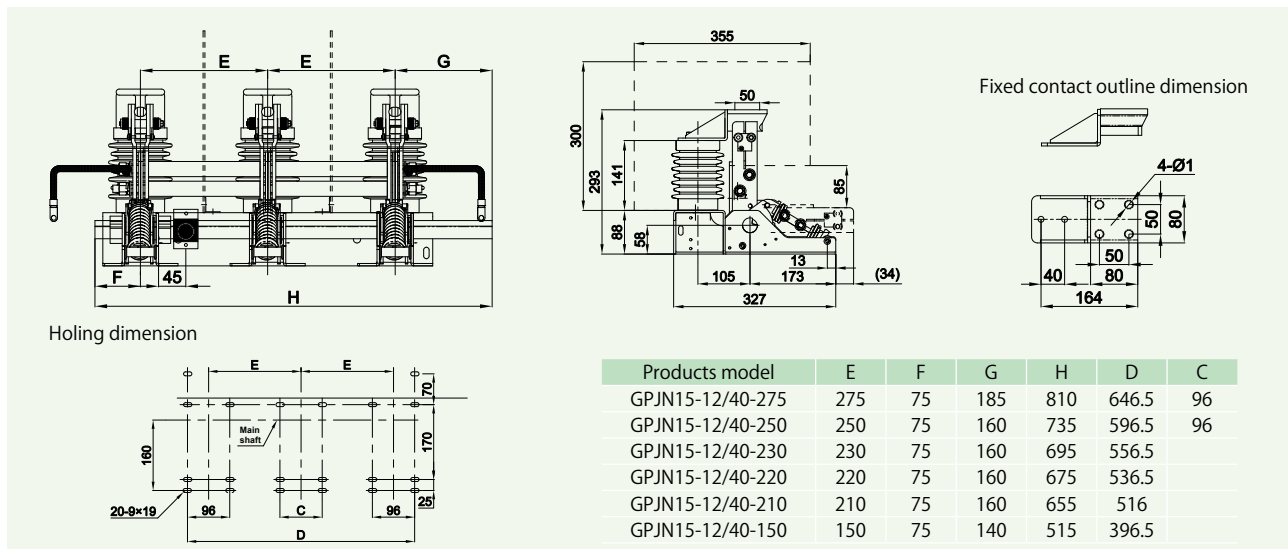
1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45°C , -25°C ;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

Special condition: Please specify when ordering.

Main technical data

Items		Unit	Data	
Rated voltage		kV	12	
Rated short-time withstand current		kA	40	
Rated short-circuit duration		s	4	
Rated short-circuit close current		kA	100	
Rated peak withstand current		kA	100	
Rated insulation level	Rated short-time power frequency withstand voltage	kV	Phase to earth/ between phase	42
	Rated lighting impulse withstand voltage			75
Mechanical endurance		times	2000	

GPJN15-12/40 Earthing switch outline and installation dimension

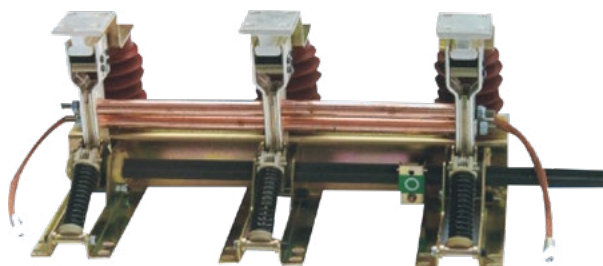


Ordering notice

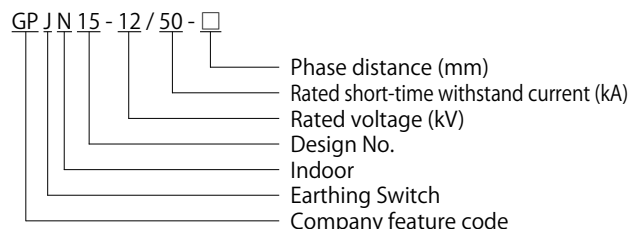
1. When ordering earthing switch, please specify product model, right or left operation, phase distance, with or without live indicator device (specify the indicator model).
2. Flexible connect length need extend or not (Standard L=240mm).
3. If any special requirements, please contact with GreenPower to develop detailed specifications.

Indoor High Voltage AC Earthing Switch 12~40.5kV

● GPJN15-12/50 Indoor High Voltage Earthing Switch



Products model and meaning



General of earthing switch

GPJN15-12/50 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 3-12kV, 3 phase, AC, 50(60) Hz, large capacity and high breaking performance; It has capacity of short-circuit close to protect the electrical equipment from damage, Applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

Standard working condition

1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45℃, -25℃;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

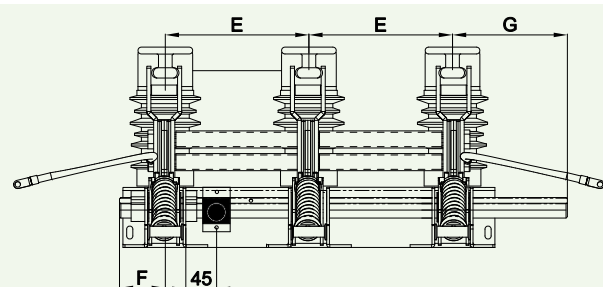
Special condition: Please specify when ordering.

Main technical data

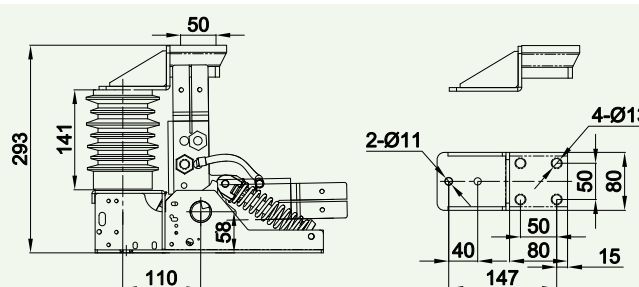
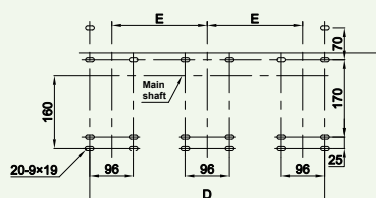
Items	Unit	Data
Rated voltage	kV	12
Rated short-time withstand current(Thermal stability)	kA	50
Rated short-time duration	s	3
Rated peak withstand current(Movable stability)	kA	125
Rated short-circuit close current	kA	125
Phase distance	mm	210/230/250/275
Rated insulation level	1min Power frequency withstand voltage	42
	Lighting impulse withstand voltage	75
Mechanical endurance	times	2000

Outline and installation dimension

Fixed contact outline dimension



Holding dimension

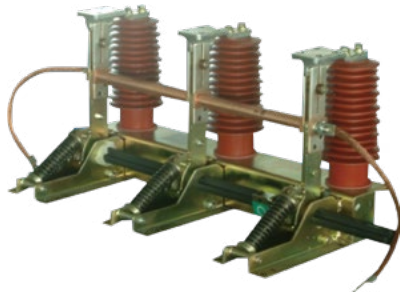


Products model	E	F	G	H	D
GPJN15-12/50-275	275	75	185	810	646
GPJN15-12/50-250	250	75	160	735	596
GPJN15-12/50-230	230	75	160	695	556
GPJN15-12/50-210	210	75	160	695	516
GPJN15-12/50-150	150	75	160	535	396

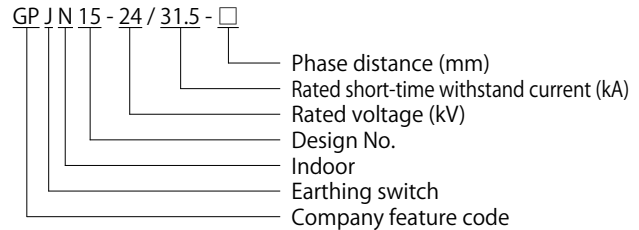
Ordering notice

1. When ordering earthing switch, please specify product model, right or left operation, phase distance, with or without live indicator device (specify the indicator model).
2. Flexible connect length need extend or not (Standard L=500mm).
3. If any special requirements, please contact with GreenPower to develop detailed specifications.

GPJN15-24/31.5 Indoor High Voltage Earthing Switch



Products model and its meaning



General of earthing switch

GPJN15-24/31.5 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnect and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 24kV, 3 phase, AC, 50(60) Hz; It has capacity of short-circuit close to protect the electrical equipment from damage, Applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

Standard working condition

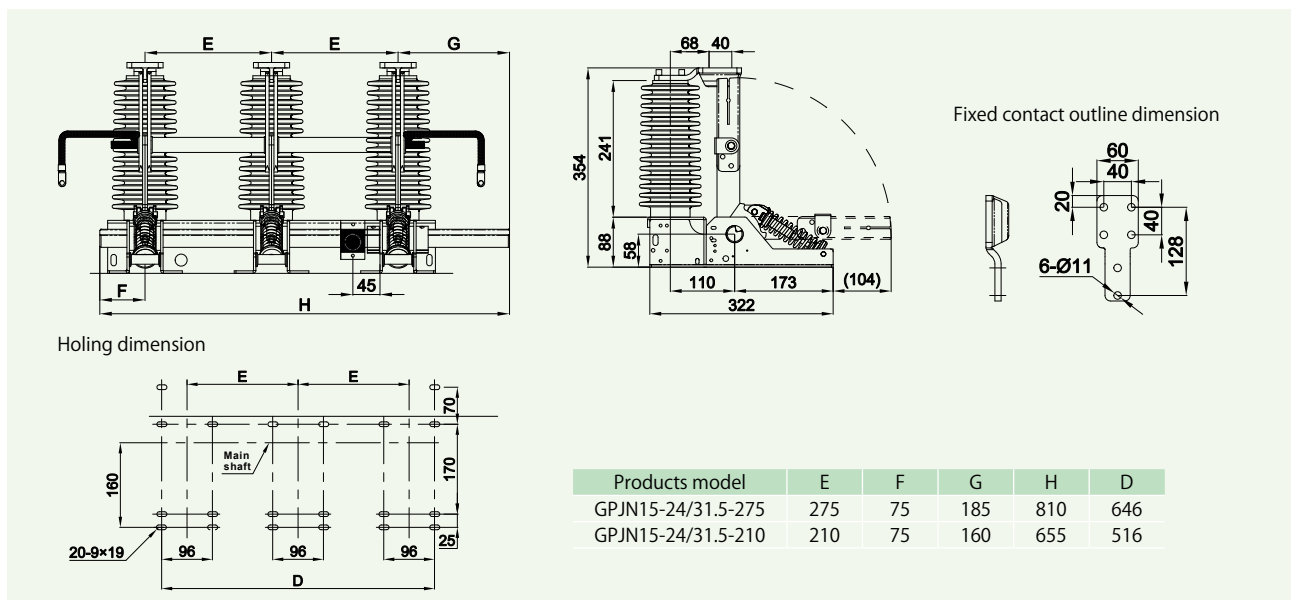
1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45℃, -25℃ ;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

Special condition: Please specify when ordering.

Main technical data

Items		Unit	Data	
Rated voltage		kV	24	
Rated short-time withstand current		kA	31.5	
Rated short-circuit close current		kA	80	
Rated peak withstand current		kA	80	
Rated short-circuit duration		s	4	
Rated insulation level	1min Power frequency withstand voltage	kV	Phase to earth/ between phase	65
	Lighting impulse withstand voltage			125
Mechanical endurance		times	2000	

GPJN15-24/31.5 Earthing switch outline and installation dimension

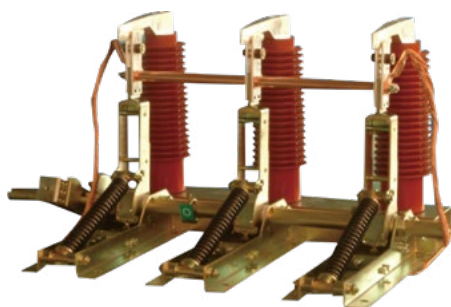


Ordering notice

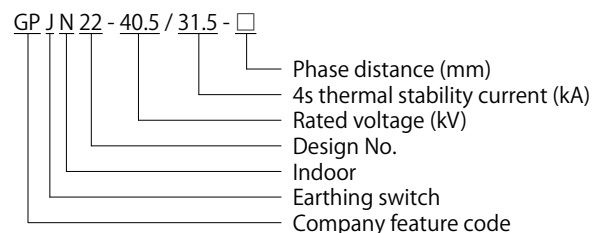
1. When ordering earthing switch, please specify product model, right or left operation, phase distance, with or without live indicator device (specify the indicator model).
2. Flexible connect length need extend or not (Standard L=400mm).
3. If any special requirements, please contact with GreenPower to develop detailed specifications.

Indoor High Voltage AC Earthing Switch 12~40.5kV

● GPJN22-40.5/31.5 Indoor High Voltage Earthing Switch



Products model and its meaning



General of earthing switch

GPJN22-40.5/31.5 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 40.5kV, 3 phase, AC, 50(60) Hz; it can match with GPN1-40.5kV high voltage switchgear or other similar equipment. It is applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

Standard working condition

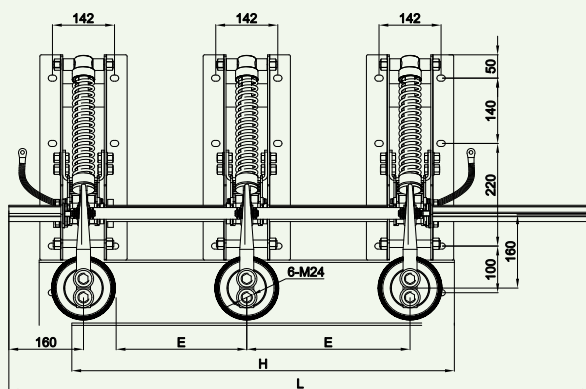
1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45℃, -25℃;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

Special condition: Please specify when ordering.

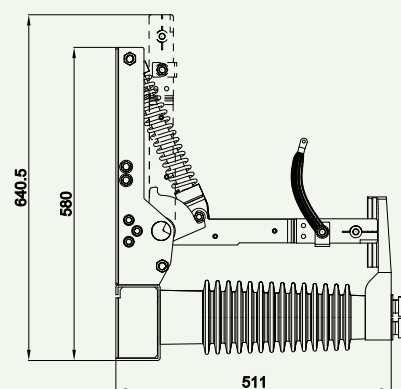
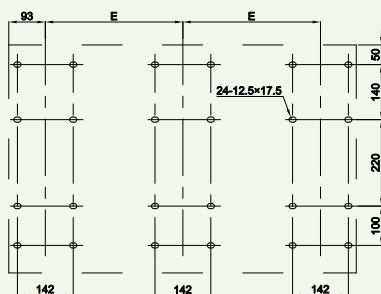
Main technical data

Items		Unit	Data	
Rated voltage		kV	36/ 38/40.5	
Rated short-time withstand current(4s)		kA	31.5	
Rated short-circuit close current		kA	80	
Rated peak withstand current		kA	80	
Phase distance		mm	300, 350, 400	
Rated insulation level	(1min) Power frequency withstand voltage	kV	Phase to earth/	95
	Lighting impulse withstand voltage		between phase	185

Outline and installation dimension



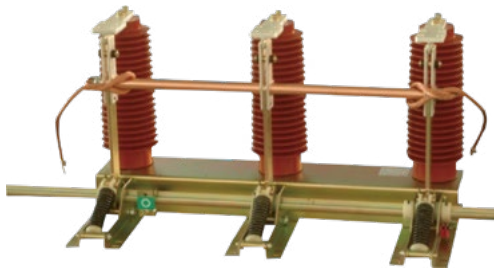
Holing dimension



Products model	E	L	H	A (Slot steel rear installation)
GPJN22-40.5/31.5-300	300	1100	786	3 holes- Φ 14
GPJN22-40.5/31.5-350	350	1200	886	3 holes- Φ 14
GPJN22-40.5/31.5-400	400	1374	986	3 holes- Φ 14

Note: if phase distance 300 need add insulating plate between phases.

GPJN15-40.5/31.5 Indoor high voltage earthing switch



General of earthing switch

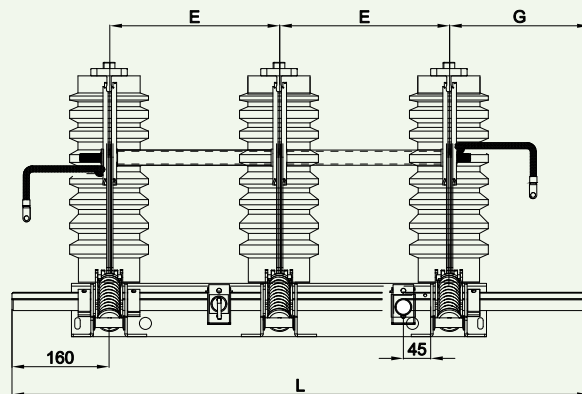
GPJN15-40.5/31.5 type indoor high voltage earthing switch is the assembly type products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 40.5kV, 3 phase, AC, 50(60) Hz; it can match with GPN1-40.5kV high voltage switchgear or other similar equipment. It is applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

Standard working condition

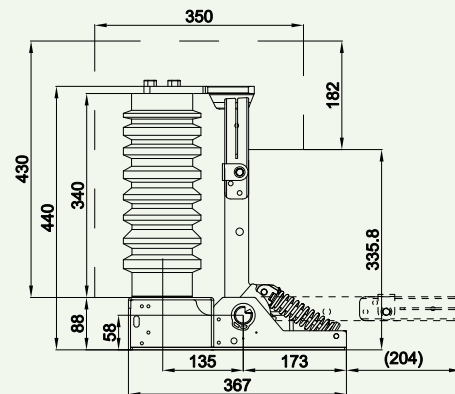
1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45°C, -25°C ;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

Special condition: Please specify when ordering.

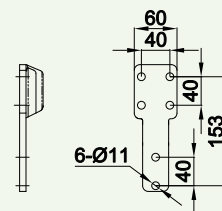
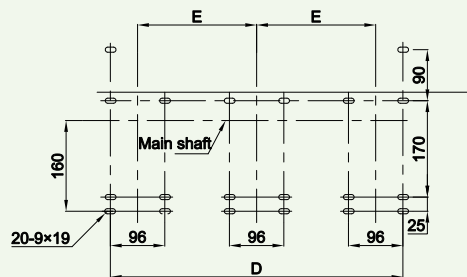
GPJN15-40.5 Outline and installation dimension



Holding dimension



Fixed contact outline dimension



Products model	E	G	L	D
GPJN15-40.5/31.5-280	280	290	1010	656
GPJN15-40.5/31.5-300	300	340	1100	696
GPJN15-40.5/31.5-350	350	340	1200	796
GPJN15-40.5/31.5-360	360	320	1200	816
GPJN15-40.5/31.5-400	400	340	1300	896

Note: Phase distance less than 360mm need add insulating plate.

Ordering notice

1. Please specify products model, Rated voltage, Phase distance.
2. If need arrange bevel gear operation mechanism, please specify the operation way of right or left direction (Picture is right operation direction).
3. Flexible connection length need extend or not(Standard L=600mm).
4. With or without live indicator, please specify the model of it.
5. If any special requirements, please contact with GreenPower to develop detailed specifications.

Indoor High Voltage AC Earthing Switch 12~40.5kV

GPJN15-12 (24) /D31.5

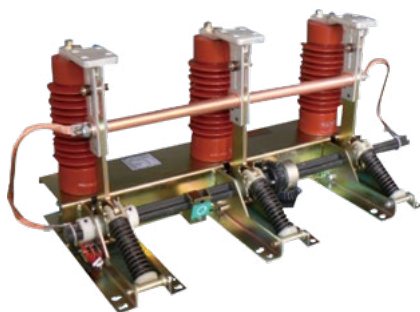
Indoor high voltage motorized earthing switch

GPJN15-12/D40, 50

Indoor high voltage motorized earthing switch

GPJN15-40.5/D31.5

Indoor high voltage motorized earthing switch



GPJN15-12(24)(40.5)kV motorized earthing switch

GPJN15-12(24)/D31.5, GPJN15-12/D40, 50, GPJN15-40.5/D31.5 series indoor high voltage motorized earthing switch (short as: motorized earthing switch) is designed for the intelligent switchgear requirement of the electric system. It is suit for 3~40.5KV, 3 phase, AC 50 (60) Hz power system and kinds of high voltage switchgears. It is applicable for high voltage switchgear arrangement as the earthing protection when maintenance. The products' performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard as well as IEC62271-102:2002.

Earthing switch structure is simple and compact, light weight, flexible operation, easy installation, dynamic thermal stability, and a reliable electric operation, keep the original interlocks in catching rabbits switchgear chain constant, has been a national patent.

Products summary

Due to the earthing switch is electrically operated, The cabinet manually operated interlocks is still keep the same as original design, but there are some parts have been modified, be sure to use our company's matchable connection rod, otherwise it would be burned

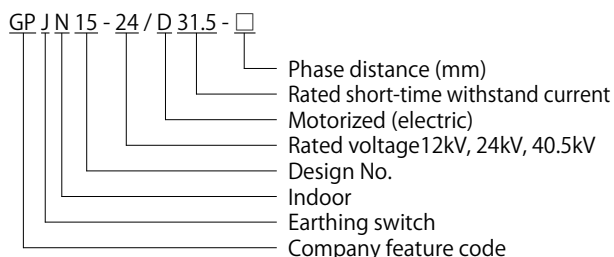
Since the earthing switch is electrically operated, and therefore the cabinet manually operated chain catching rabbits consistent with the original style, but there are some parts have been modified, be sure to use the matching connection rod of our company, otherwise it would be burned the motor of motorized earthing switch.

If the cabinet back door need interlocking with motorized earthing switch, also be sure to use the company's patented technology to produce backdoor interlock mechanism, and equipped travel switch.

When the back door is not closed, cutting off the operation power of motorized earthing switch to avoid motorized earthing switch of misuse and damage the motor.

When electric interlocking with the motorized earthing switch, be sure to use auxiliary contacts associated with electrical components to disconnect the operation power of the motorized earthing switch to achieve electrical interlock in order to ensure a reliable electrical interlock.

Products model and its meaning



Basic parameters

Products model	GPJN15			
Rated working voltage	12kV	24kV	40.5kV	
Rated short-time withstand current (4S)	31.5kA	40kA	50kA	31.5kA
Rated peak withstand current	80kA	100kA	125kA	80kA
Rated short-circuit close current	80kA	100kA	125kA	80kA
Main circuit withstand voltage(1min)	42kV	65 kV	95kV	
Insulating level:				
Rated lightning impulse withstand voltage	75kV	125 kV	185kV	
Across distance after open not less than	125mm	200 mm	300mm	
Control voltage	AC220V	DC220V	DC110V	

Standard working conditions

Apply to the following conditions:

1. Not more than 1000 meters above sea level;
2. Ambient temperature not higher than + 45°C , not lower than -25°C ;
3. Daily average relative humidity less than 95%, the monthly average of less than 90%;
4. Earthquake intensity does not exceed 8 degrees;

Not available the following locations:

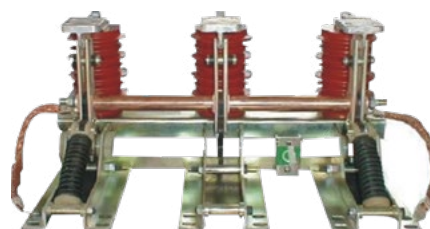
1. Installation site there is a serious grounding switch insulation and conductivity of gases, vapors, chemical precipitation, dust, dirt and smoke explosion aggressive substances;
2. Installation place has frequent violent vibration.

Structure and working principle

1. Main structure

The earthing switch mainly formed by the holder, ground knife assembly, Fixed contact, sensors, shafts, crank arm, spring, conductive sleeve, flexible connection, curved rear bracket by a thin steel plate welded into parts, the rest are assembled components. Its shape, see the following picture:

Figure 1: Outline of the motorized earthing switch



2. Earthing switch works principles (in Figure 2, for example)

When the manually operated earthing switch closed, the torque force to the shaft 5 to overcome the drag torque, driving crank arm 7 rotates in the closing direction, and the operation rod on the earthing knife 9 through pressure spring 8 dead point, spring release energy, the grounding switch rapidly closing, on the closing position, earthing knife of earthing knife components 9 through the butterfly spring and knife mouth of fixed contact 6 to earthing firmly and securely.

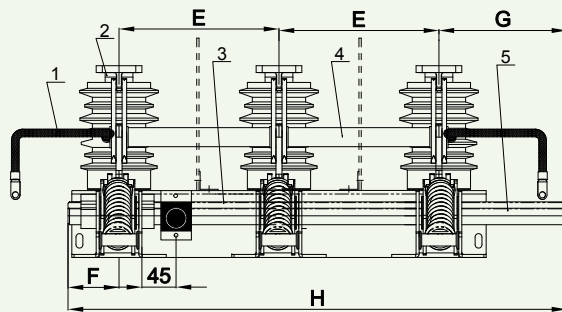
When manual operation opening, the torque force to the shaft 5 and the spring force to overcome the resistance torque, drive crank arm 7 along the opening direction of rotation, and earthing knife 8 and pressure spring 9 through the dead point, spring energy storage finished in order to prepare for the next closing times.

When electric operation, earthing switch inside has bevel gear, reducer, motor, control board which combined to drive device, this device output torque forward and reverse directions, so that the earthing switch opening or closing.

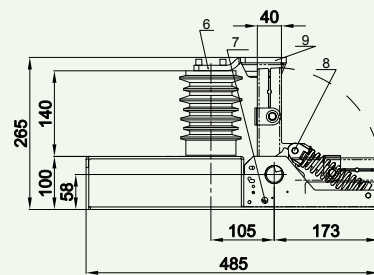
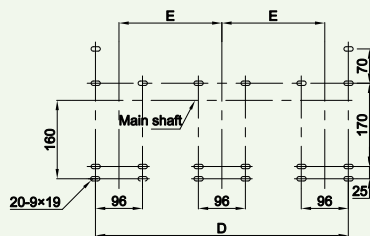
Whether earthing switch is manually or electrically operated, it is regardless of the speed of closing and opening the earthing switch.

Outline dimension, installation dimension and busbar joint dimension

Figure 2: GPJN15-12/D31.5/150 motorized earthing switch outline dimension



Holing dimension



Products model	E	F	G	H	D
GPJN15-12/D31.5-150	150	75	140	515	396.5
GPJN15-12/D31.5-165	165	75	160	565	426

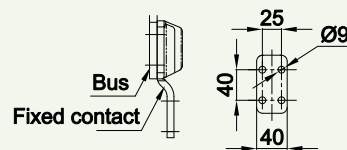
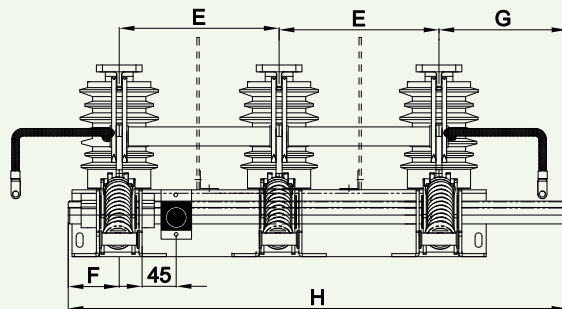
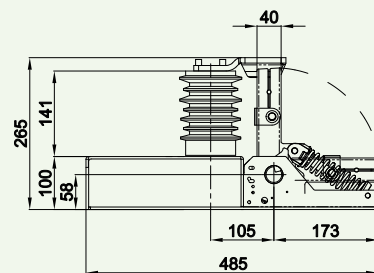
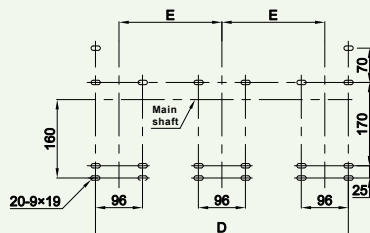


Figure 3: GPJN15-12/D31.5/210/275 motorized earthing switch outline dimension



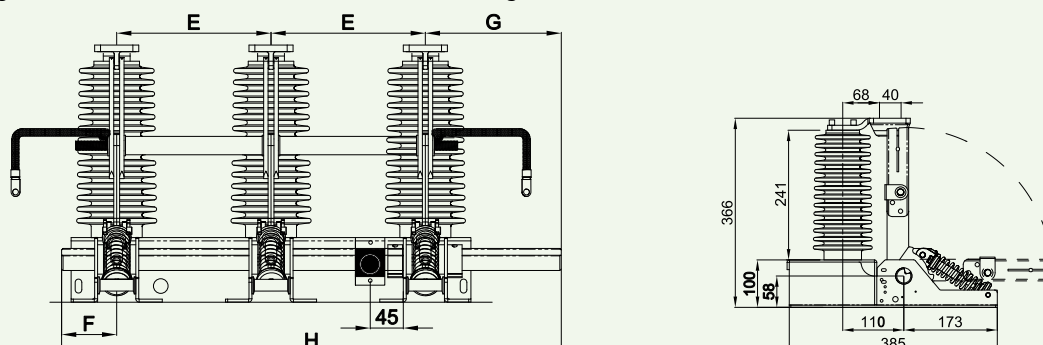
Holing dimension



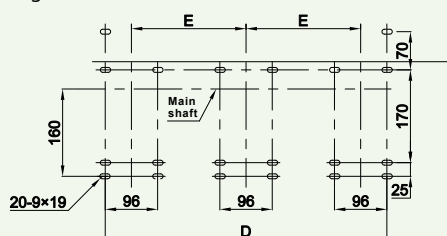
Products model	E	F	G	H	D
GPJN15-12/D31.5-275	275	75	185	810	646
GPJN15-12/D31.5-210	210	75	160	665	516
GPJN15-12/D31.5-250	250	75	160	735	596

Indoor High Voltage AC Earthing Switch 12~40.5kV

Figure 4: GPJN15-24/D31.5/210/275 motorized earthing switch outline dimension



Holing dimension



Products model	E	F	G	H	D
GPJN15-24/D31.5-275	275	75	185	810	646
GPJN15-24/D31.5-210	210	75	160	665	516

Phase distance 210mm need add insulating partition

Figure 5: GPJN15-12(24)/D31.5

GPJN15-40.5/D31.5 series motorized earthing switch busbar joint size

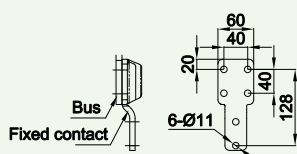
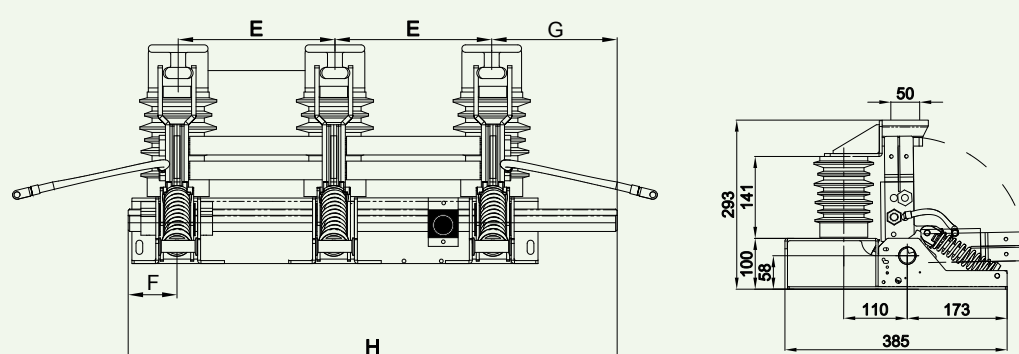
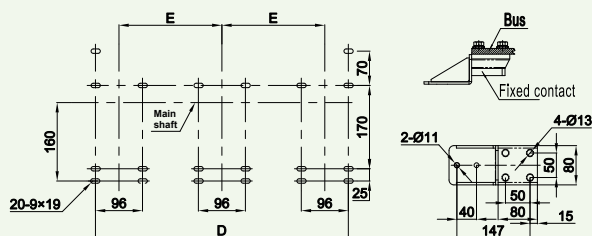


Figure 6: GPJN15-12/D40/210/275 motorized earthing switch outline dimension

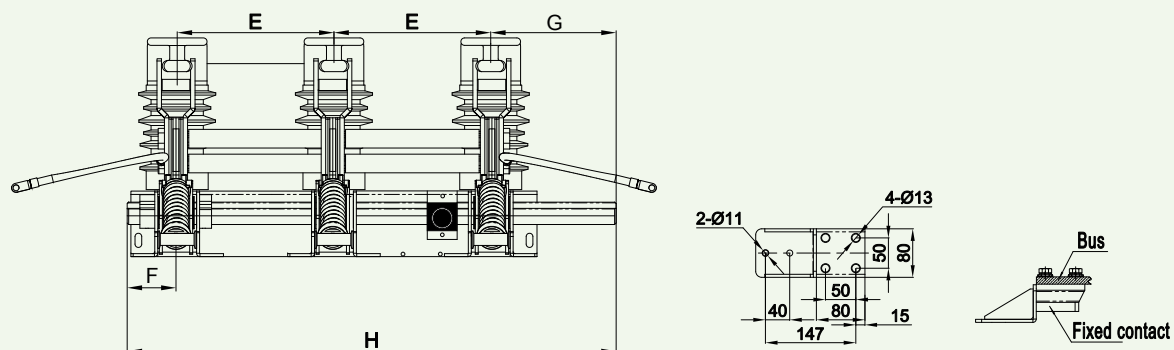


Holing dimension

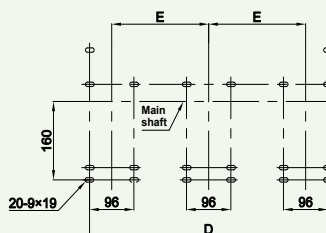


Products model	E	F	G	H	D
GPJN15-12/D40-275	275	75	185	810	646
GPJN15-12/D40-210	210	75	160	665	516

Figure 7: GPJN15-12/D50/210/275 motorized earthing switch

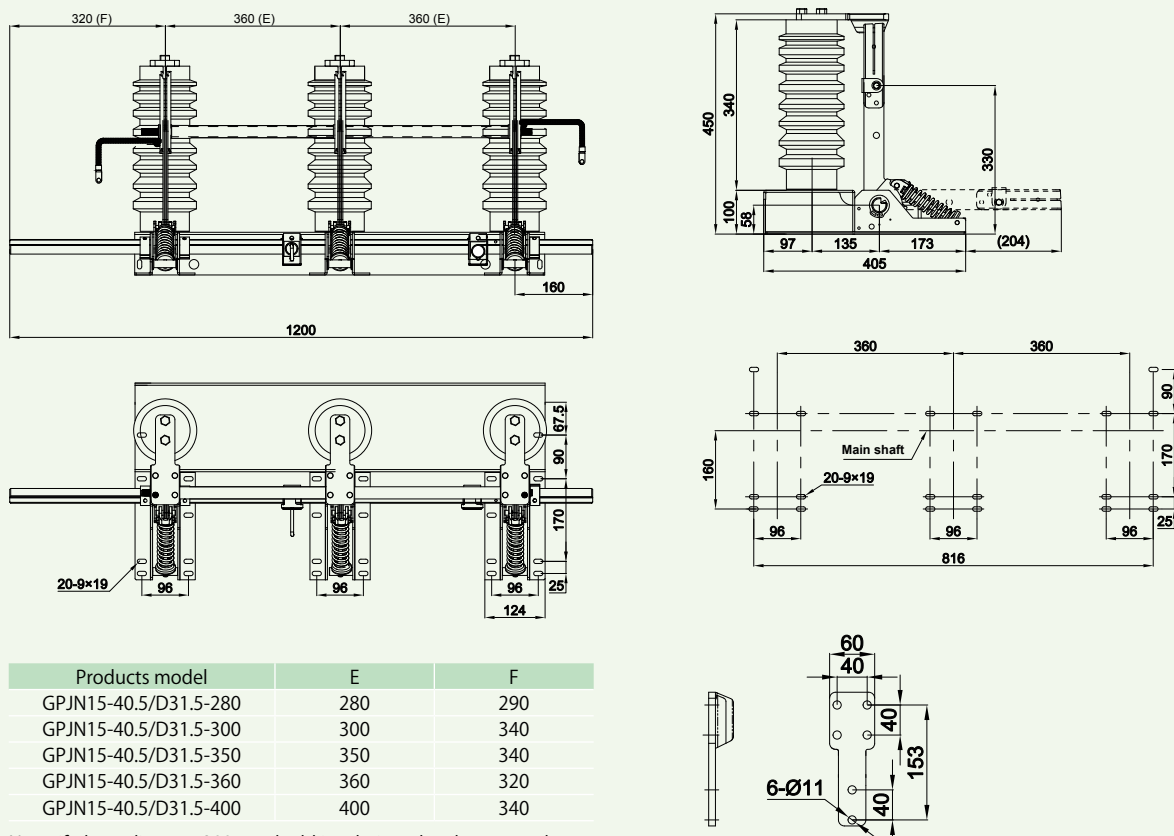


Holing dimension



Products model	E	F	G	H	D
GPJN15-12/D50-275	275	75	185	810	646
GPJN15-12/D50-210	210	75	160	665	516

Figure 8: GPJN15-40.5/D31.5 motorized earthing switch outline dimension

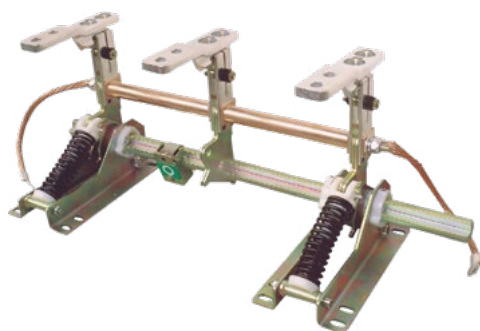


Products model	E	F
GPJN15-40.5/D31.5-280	280	290
GPJN15-40.5/D31.5-300	300	340
GPJN15-40.5/D31.5-350	350	340
GPJN15-40.5/D31.5-360	360	320
GPJN15-40.5/D31.5-400	400	340

Note: if phase distance 300 need add insulating plate between phases.

Indoor High Voltage AC Earthing Switch 12~40.5kV

● GPJN15A-12/31.5 Indoor high voltage AC earthing switch



Description

GPJN15A-12/31.5 type indoor high voltage earthing switch is the assembly type new generation products, its performance meet GB1985-2004 High Voltage AC Disconnecter and Earthing Switch and the requirements of standard IEC62271-102:2002. The products suit for power system with 3-12kV, 3 phase, AC, 50(60)Hz; It has capacity of short-circuit close to protect the electrical equipment from damage, Applicable for high voltage switchgear arrangement as the earthing protection when maintenance.

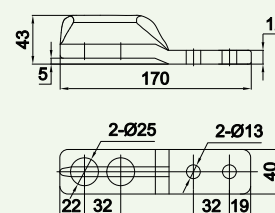
Working condition

1. Altitude sea level not exceeding 1000m;
2. Ambient air temperature: +45°C, -25°C ;
3. Seismic intensity not exceeding 8 degree;
4. Related humidity daily average value not more than 95%, monthly average not more than 90%;
5. Pollution class: II

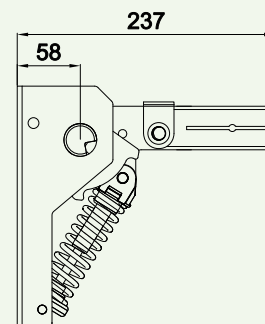
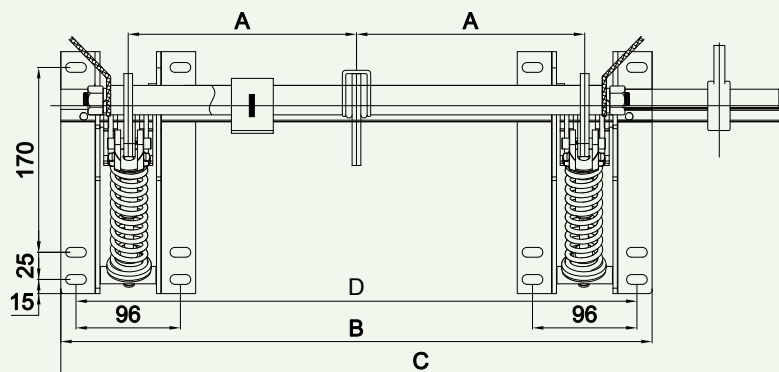
Main technical data

Items		Unit	Data	
Rated voltage		kV	12	
Rated short-time withstand current		kA	31.5	
Rated short circuit duration		s	4	
Rated short circuit close		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Power frequency withstand voltage(1min)	kV	Pole to earth and between poles	42
	Lighting impulse voltage			75
Mechanical Life		time	3000	

Fixed contact outline dimension



GPJN15A-12/31.5 Earthing switch layout and installation size



Model	A	B	C	D
GPJN15A-12/31.5-150	150	424	535	396
GPJN15A-12/31.5-165	165	454	565	426
GPJN15A-12/31.5-190	190	504	615	476
GPJN15A-12/31.5-200	200	524	635	496
GPJN15A-12/31.5-210	210	544	655	516
GPJN15A-12/31.5-230	230	584	695	556
GPJN15A-12/31.5-250	250	624	735	596
GPJN15A-12/31.5-275	275	674	785	646

Ordering notice

1. When ordering earthing switch, please specify product model, right or left operation, phase distance, with or without live indicator device (specify the indicator model).
2. Flexible connect length need extend or not.
3. If any special requirements, please contact with GreenPower to develop detailed specifications.

GPJ-3100 Series short circuit and earth fault indicator

The GPJ-3100 series of short circuit and earth fault indicator is designed for testing and indicating short circuit and earth fault in real time. It is applied to monitor circuitry in RMU, overhead line, power cable distribution line, box-type transformer and other similar places. According to alarm signal showed by indicator, workers can figure out and cut off fault area rapidly when short circuit or earth fault occurring in the circuitry, so the system can recover supplying power for non-fault area promptly to save time and enhance efficiency.

Functions:

1. Short circuit alarming
2. Earthing alarming
3. Auto reset
4. Test / Reset
5. Transmit alarming information remotely
6. Alarming indication with low voltage of the battery

Technical data:

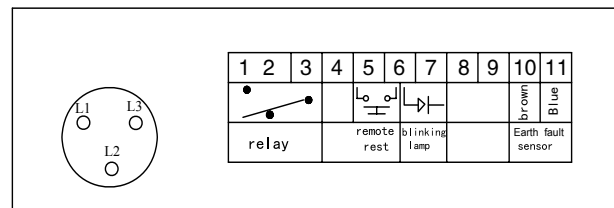
1. Short circuit alarming current: 100A to 1000A time delay 40ms
2. Earthing alarming current: 20A,30A,40A,50A,60A \pm 10% time delay 40ms
3. Temperature range : -25 to +70 °C
4. Humidity range: \leq 95%
5. Earth lead length : 4m
6. Conduct optical fiber length 3.5m
7. Power supply: lithium battery 3.6V/2.45Ah
8. Auto-reset time : 7s,2hrs,4hrs,8hrs
9. Output relay : 120 V AC 1A, 30V DC 2A
10. Main controller dimension : 95x50x80mm
11. Cutting hole size : 91x44 mm
12. Protection class : Main Controller :IP40, Sensor:IP65



Characteristics

1. High reliable MCU to get low consumption when monitoring.
2. Passive sensor.
3. Long-life lithium battery as power supply.
4. Three phases detect independently.
5. Used optical fiber to transmit short circuit signal, separate from high voltage, have good safety and high reliability.
6. Self-lock output relay.

Connection diagram

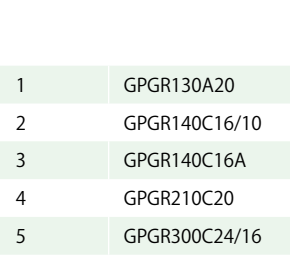
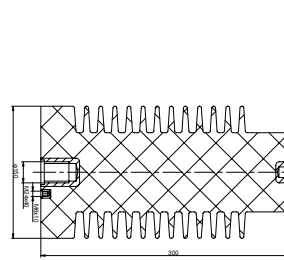
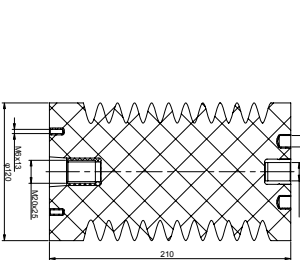
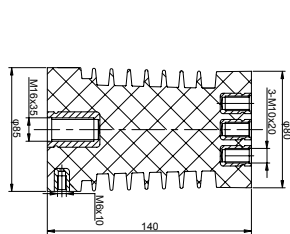
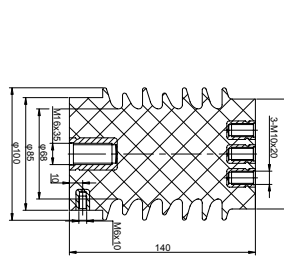
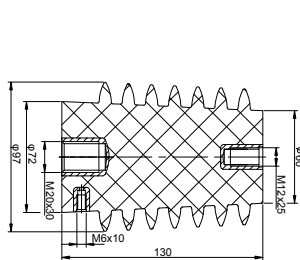


GPGR Series sensors for 12kV, 24kV, and 35kV

With the automation pressure gel techniques (called APG Techniques),the new type of voltage Insulator can be applied to indoor high voltage electric facility 3-40.5kV,frequency 50/60Hz. When it is used with voltage indicator ,it can indicate the electriferous status of high-voltage loop circuit and also realize the locking function to prevent any dangerous operation entering into electriferous spacing.

Technical parameters

Rated voltage(kV):	12	24	40.5
Lighting impulse withstand voltage(kV)	75	125	185
Power frequency withstand voltage(kV)	42	68	95
Partial discharge(pC)	≤ 10	≤ 10	≤ 10
Creepage distance(mm)	≥ 240	≥ 480	≥ 810
Capacitance(pF)	G : (8) R : (20)	15	10
Height(mm)	130/140/145	210	300



1	GPGR130A20
2	GPGR140C16/10
3	GPGR140C16A
4	GPGR210C20
5	GPGR300C24/16

Medium Voltage Switchgear Components 12~40.5kV

● Voltage indicator

The voltage presence indicating system is comprised of voltage indicator and high voltage insulator to indicate electriferous status of high voltage circuitry. The voltage indicator with interlocking function can interlock high voltage electrical equipment to prevent any dangerous operation entering into the electriferous spacing .

Technical parameters

1. Rated frequency: 50Hz or 60Hz
2. Ambient temperature range: -25°C to +55°C
3. Protection class: IP54
4. Power frequency withstand voltage 2kV/1min
5. Threshold voltage 15% to 40%Un

Type Description

GP XN □ □ □ □ □

- System voltage: 3kV to 35kV
- Special code : CS—with self-check function ; /L—with 2 auxiliary contact output; Z—sub-master; M—master; W—insert
- Type: T—cue; Q—lock
- Design code: empty—without testing hole; 1—with testing hole
- Design code: letter or number
- In-door voltage indicator
- Company feature code

Function

1. Mated with the cable containing surge voltage protector and low capacitance insulator to have a more safely testing voltage.
2. It can do the power frequency withstand voltage test with electrical equipment.
3. Utilize bright and long-life LED to indicate.
4. The capacitance of the auxiliary contact is 7A,250 V AC or 30 VDC.
5. Easy for installation and maintenance .



Figure 1



Figure 2



Figure 3



Figure 4

Type	Item	Display method	Power check	Locking single contact	Locking double contact	Insert	Self check	Dimension	Cutting size	Figure
Builtin type Swg.	GPXN-Q	Key-press		√				96 × 48 × 88	91 × 44	3
	GPXN-T	Key-press						96 × 48 × 55	91 × 44	3
	GPXN1-Q	Brightness	√	√				96 × 48 × 88	91 × 44	1
	GPXN1-T	Brightness	√					96 × 48 × 55	91 × 44	1
	GPXN4-Q	Key-press	√	√				144 × 48 × 104	138 × 44	4
	GPXN4-T	Key-press	√					144 × 48 × 104	138 × 44	4
	GPXN5-Q	Key-press	√	√				96 × 48 × 88	91 × 44	2
One Insulator with 2 Indicators	GPXN5-T	Key-press	√					96 × 48 × 55	91 × 44	2
	GPXN4-Q/M	Key-press	√	√				144 × 48 × 104	138 × 44	4
	GPXN4-T/M	Key-press	√					144 × 48 × 104	138 × 44	4
	GPXN4-T/Z	Key-press						144 × 48 × 104	138 × 44	4
Special Type	GPXN1-Q/CS	Brightness	√	√			√	96 × 48 × 88	91 × 44	1
	GPXNP1-Q/W	Brightness	√	√		√		96 × 48 × 88	91 × 44	1
	GPXN-Q/LCS	Brightness			√		√	96 × 48 × 88	91 × 44	3

● Voltage indicator used in Ring Main Unit

The voltage indicator is used together with insulator to indicate electriferous state of the voltage circuitry.

The continuous voltage detector GPXN9-C is used with indicator to indicate the electriferous state. The hole distance of the power-check terminal is 14mm or 19mm.

Phase comparator GPXN-C is used with indicator to indicate the electriferous state of high-voltage circuitry and check phase sequence of electrical equipment.

Power-check: phase comparator insert into the earthing or the other terminals of the high-voltage equipment.

Phase-check: phase comparator insert into the same phase power-check terminal of two high-voltage equipment, if the LED light is bright, it shows that the testing phase having power supply.

Technical Parameters

- Rated frequency: 50(60)Hz
- Threshold voltage 15% to 40% Un
- Threshold current : 2.5uA
- Ambient temperature : -25°C to +55°C
- Protection class: IP54

Type	Outline Dimension (mm)	Cutting Size (mm)	Installation Size (mm)
GPXN6-T	70 × 35 × 33	55 × 32	Φ 3.4 × 2 Distance 64
GPXN2-T	130 × 30 × 45	110 × 26	Φ 5.2 × 2 Distance 64
GPXN2-Q	96 × 48 × 88	91 × 44	
GPXN7-T	100 × 35 × 33	84 × 32	Φ 3.4 × 2 Distance 64



GPXN7-T



Phase comparator



Voltage detector GPXN9-C



GPXN6-T



GPXN2-T



GPXN2-Q

● GPK-3350 Multi-functional control unit

The GPK-3350 serial of multi-functional control unit are applied to all kinds of switchgears, such as built-in type, handcart type, fixed type, ring main unit and so on. With so many functions of phase-voltage indication, interlock, temperature & humidity controller, circuit breaker status indication, stored energy indication, earth switch status indication, handcart position indication, remote/local operation, and open/close operation.

Characteristics

1. High reliability and long lifespan
2. Use LCD to indicate temperature and humidity status
3. The functions of voltage indication and interlock function can operate independently and both contains 2 groups of output relays.
4. Control temperature and humidity in 2 channels
5. Key-type open/close operation switch is optional.
6. Check power and phase sequence with testing hole.



Technical Parameters

Threshold voltage	15% to 40% Un
Rated frequency	50Hz or 60Hz
Auxiliary contact capacitance	7A, 250VAC or 30VDC
Interlock voltage	15% -40% Un
Temperature range	-9℃~+ 99℃ accuracy ± 1℃
Humidity range	0 ~ 99%RH accuracy ± 5%RH
Heating start-up condition	T< lower limit settings H> upper limit temperature settings
Heating stop condition	T> lower limit settings H< upper limit temperature settings
Fan start-up condition	T> upper limit settings

Fan stop condition	T< lower limit settings
Temperature Setting value	3℃ to 45℃
Humidity setting value	40% to 90%
Contact output capacitance	8A/250V AC
Power supply	110V/220V AC or DC
Ambient temperature	-15 to 55℃
Protection class	IP54
Power-frequency withstand voltage	2kV/min
Rated power	<15 W
Dimension	240 × 186 × 70mm
Cutting size	220 × 165mm

● GPSJ-4 Current indicator

The GPSJ-4 current indicator is used to indicate and alarm the absence of loop circuit resistance.

It has a 4-gear switch to choose the load power. When the load is normal, the normal state indicating lamp is on, the output contacts 4# and 3# connected, while connectors 2# and 1# disconnected. When the loop circuit resistance increased (for example: the heater is aging or one of parallel heaters is occurring open fault), the normal state indicating lamp is off, and the alarm indicating lamp on, meanwhile, the output alarm contact status is changed. Namely, when any load power in the 4-gear switch is absent and fall down to 20% of rated power, the current indicator will take prompt and accurate action.

It also can sample supply voltage to adjust the reference value to avoid any monitor fault or failure operation caused by the fluctuation of power supply voltage which is more suitable for fluctuating of the heaters which are parallel connected .

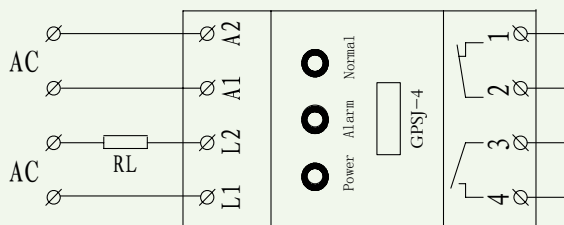
The current indicator is easy for connecting and mounting with high performance on resist current impact.

Technical parameters

Rated voltage	AC110V/220V
Start current	20% optional load absence
Ambient humidity	≤ 95%RH
Ambient temperature	-25℃~ +55℃
Defend class	IP2X
Rated frequency	50/60Hz
Max monitoring current	5A
Withstand resisting impact current	20A/1S
Power frequency withstand voltage	2000V/min
Output contact capacitance	5A, 250VAC or 30VDC
Responding time	<5 s
Life time	>100000 hours
Dimension	90 × 45 × 59 (Installed with 35mm DIN rail)



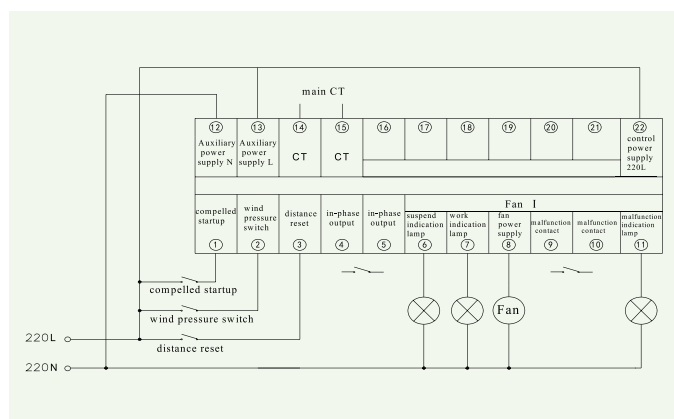
Connection diagram



Medium Voltage Switchgear Components 12~40.5kV

GPFC-1 Intelligent Fan Control Device

GPFC-1 is an intelligent digital radiating system specially designed for switchgear which to force air-cooling. With brand-new digital way replacing temperature indirect control, which can absolutely solve big error in open-control point caused by temperature, frequent acting for the fan and startup lag behind, etc. It is an update products comprised of independent components for controlling and observing loop circuit which can successively observe the working state of fan. It has a characteristic of setting, choosing manual force-open pattern, cascade working against the startup current site. Using MCU as main controller and add some practical control programs which make control style more reasonable. It is specially developed for industrial control using in high voltage switchgear with mature digital circuit design, advanced workmanship and perfect related test so that it can have a long working life, strong anti-interference, less node and optimized circuit to ensure the high reliability and stability of the product in practice.



Performance	Data
Power supply	220AC $\pm 10\%$ /50Hz
Standby power	$\leq 10W$
Outline dimension	160 \times 90 \times 57.5
Installation	35mm Guide rails Installation
Current jumper	1A(single)/5A(connection)
Setting range	30%~105%le
Fan power	155-175w
Fan start current upper limit	2.3A $\pm 10\%$
Fan rated current upper limit	1A $\pm 10\%$
Fan rated current lower limit	0.47A $\pm 10\%$
Environment ambient temperature	-20°C~+55°C
Environment ambient humidity	$\leq 95\%RH$
Main contact Capacitance	10A/250AC

Position Indicator

Position indicator can simulate the operating position and condition of switch apparatus like switch and circuit breaker in electric system. It is extensively used on all kinds of mimic board of central control room and panel of switchgear in power plant, power station and transformer station. This serial of position indicators have high reliability, wide range of working voltage and long lifespan. DC and AC are available for usage.

Technical Parameters

Rated voltage	DC/AC 98V~242V
Luminous intensity	$> 40 \text{ cd/m}^2$
Power frequency withstand voltage	2kV/1min
Insulation resistance	$\geq 100M \Omega$
Power dissipation	$\leq 1W$
Operating temperature	-15°C to +50°C
Lifespan	$> 10 \text{ years}$
Display function	Working condition is indicated with red/green color and graphics (As customers' option)
Outline dimension:	37.5 \times 37.5 \times 62(mm)
Cutting size:	$\Phi 25(\text{mm})$

Model	Description
GPWZ25-K/2	Position Indicator-Circuit-Breaker
GPWZ25-E/1	Position Indicator-Earthling Switch
GPWZ25-B/2	Position Indicator-Handling Truck
GPWZ25-B/1	Position Indicator-Disconnector
GPWZ25-K/1	Position indicator-Three position Switch



GPWZ25-K/2



GPWZ25-E/1



GPWZ25-B/2



GPWZ25-B/1



GPWZ25-K/1

● GPD5000 Series digital electricity meter

With the standard Modbus-RTU communication function, the GPD5000 series is a intelligent integrated power parameter monitoring instruments which the wire system can be set and ratio can be changed. It can measure three-phase AC voltage, AC current, frequency, power factor, active and reactive power, active and reactive energy and so on, and displays the result in seven-segment LED or segment LCD. GPD5000 series digital electricity meter is designed according to the state standard, designed with advanced electric circuit, international brands of electronic components, and combined with careful software design, which has the characteristics of high integration and high reliability. The GPD5000 has been rigorously tested for hardware and software, as well as a variety of environment test and EMC test, so it can work well in harsh environment.

Applications: 1) Used in the high and low voltage switchgear for the power system include power plants, substations, power distribution to achieve the power monitoring in transmission and distribution.

2) Used in petroleum, chemical, metallurgy, railway construction and other industries, it can achieve power monitoring and power management of distribution system and electrical equipment that in airports, ports, housing district, smart buildings and other facilities.

Product Features

True RMS of the voltage and current
The wire system can be set
Ratio can be changed
The main interface is user-defined
Modular design
Standard shell
Standard Modbus-RTU
Good electromagnetic resistance

GPD50 30 IU - A S ☐ ☐ ☐ ☐
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

③ Function code

-Blank: All parameters can be measured
IU Ammeter/Voltmeter
IW Ammeter power meter
I Ammeter
U Voltmeter
P Active power meter
Q Reactive power meter
C Power factor meter
D Power factor angle meter
Wh Active power meter
Qh Reactive energy meter



GPD5036

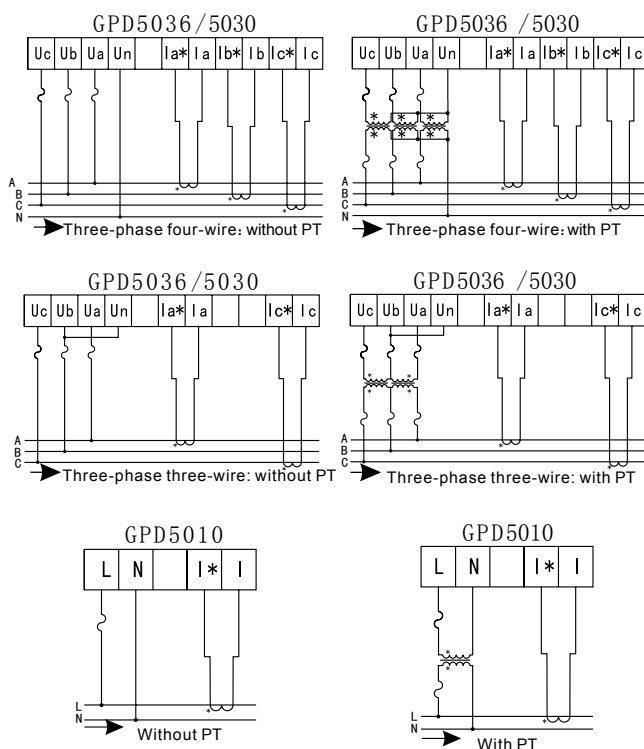


GPD5030



GPD5010

Typical wiring diagram :



① Products code

-GPD50: Electricity digital display

② Products serial number

-10: Single-phase meter: Seven-segment LED display
-20: Three-phase meter: Seven-segment LED display
-30: Three-phase meter: Segment LED display

④ Outline dimension code

A: 96x96x112 B: 96x96x89 C: 96x48x112
D: 120x120x112 F: 72x72x112 K: 82x82x80

⑤ Communication interface

-N: None -S: RS485 interface -R: RS232 -P: RS232 Printer

⑥ Extended function I N: None

1AO: Analog output 1 2AO: Analog output 2
3AO: Analog output 3 4AO: Analog output 4

⑦ Extended function II N: None

1DO: Relay output 1 2DO: Relay output 2
3DO: Relay output 3 4DO: Relay output 4

⑧ Extended function III N: None

1DI: Switch input 1 2DI: Switch input 2
3DI: Switch input 3 4DI: Switch input 4

⑨ Extended function IV

N: None
1EP: Electric energy pulse output 1 2EP: Electric energy pulse output 2

Power supply:	
AC	85~265V (45~65Hz)
DC	85~330V
Input:	
Rated voltage	420V AC/100V AC
	1.2 times rated: continued, 2 times rated: 10 seconds
Rated current	5A AC/1A AC
	1.2 times rated: continued, 10 times rated: 10 seconds
Precision:	
Voltage	0.2 level
Power	0.5 level
Electric energy	1 level
Current	0.2 level
Frequency	± 0.05Hz
EMC Characters:	
Surge	GB/T 17626.5-2008 (IV, 4kV)
Pulse train	GB/T 17626.4-2008 (IV, ± 4kV)
Static	GB/T 17626.2-2006 (III, ± 8kV)
Environments:	
Working	Temperature: -10°C ~ +50°C
	Humidity: 20%~95% no condensation
Storage	Temperature: -25°C ~ +85°C
	Humidity: 20%~95%, no condensation

Medium Voltage Switchgear Components 12~40.5kV

● GPZ Series electrical operation controller

GPZ series electrical operation controller use integrated control, applied in all kinds of ring main electric operating control such as load switch opening or closing, energy storage motor storage and so on. Though the inspection agencies in the auxiliary contact state and the opening and closing signal, control the motor energy storage and control mechanism of closing or opening, effectively prevent the switch misoperation. This controller has the advantages of high reliability, long service life, which is replaced by a discrete component of traditional choice of control circuit.

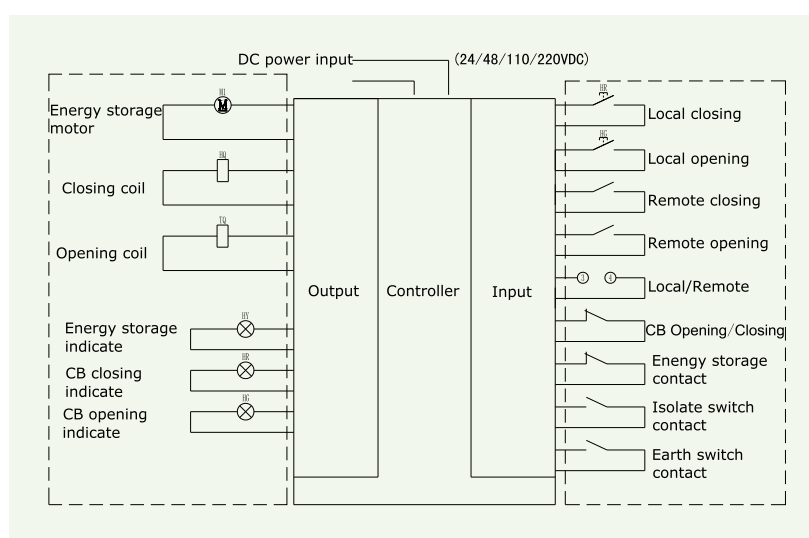
Product features

Closing with anti-pumping function;
Adopt centralized control, high reliability, low failure rate;
External auxiliary contact function can be designed according to customer demand;
Product is fully sealed, with waterproof, prevent condensation function, can be function well in damp high and low temperature, and other harsh environment;
Small volume, convenient installation;
Wiring is simple, the connector with anti-error function, high mounting efficiency;
Many models and different voltage grade products to choose.

Technical parameters

Rated voltage	24/48/110/220 VDC
Withstand voltage	2kV/ 1min
Working environment	-25℃ ~55℃ , ≤ 90%RH
Power consumption	<5W
Service life	10 years
Protection class	IP54
Outline dimension	110X85X80mm

Outline view



● Position Indicating Screen GPAS-72

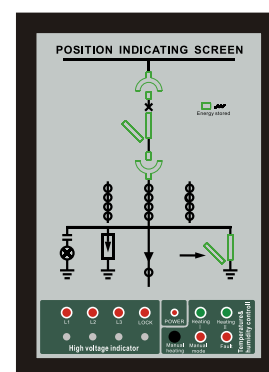
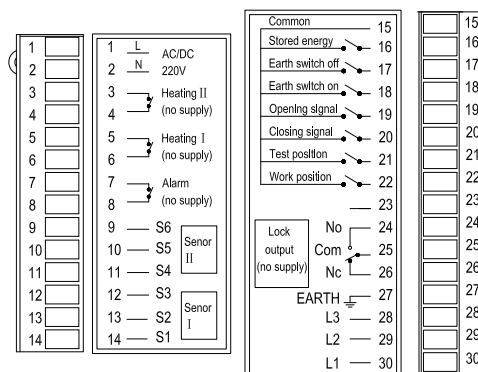
The GPAS-72 serial position indicating screen adopts LED as the light source, with low energy consumption, high reliability, long service life, etc. And it can be applied to all kinds of switchgears as position indicating screen with different system diagram solutions. With so many functions of phase-voltage indication, interlock, temperature & humidity control, handcart position indication, circuit breaker status indication, earth switch status indication, stored energy indication. It is the good choice to replace the traditional single switch state position indicator.

Features

Wide range of power supply.
Use LED as the light source, with low energy consumption, high reliability, long service life.
The functions of voltage indication and interlock function can operate independently, and with one output relays.
Control temperature and humidity in 2 channels, and heating fault alarm.
Adopt embedded installation structure, easy for mounting.

Technical parameters

Rated voltage	AC/DC 110V/220V
Power frequency withstand	2kV/min
Work environment	-25℃ to 55℃ , ≤ 90%RH
Analog indicator light luminance	>40cd/m2
Working life	10 years
Protection level	IP42
Dimension	199x146x63mm
Cutting size	177x121mm

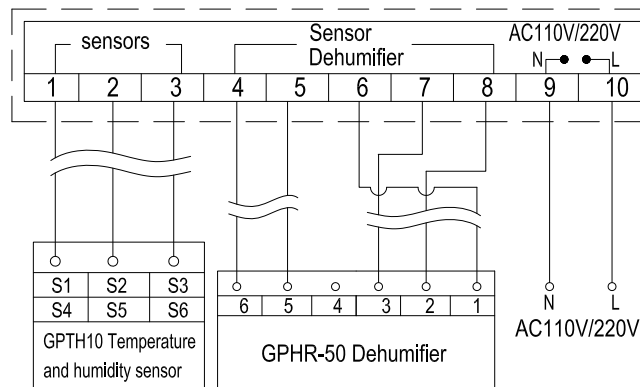


Intelligent cabinet dehumidifier GPHR-50

This products combines semiconductor refrigeration condensing dehumidification technology and heating dehumidification technology, it is integration of dehumidification heating equipment, using imported high-performance digital temperature and humidity sensors and integration of advanced process control technology, used in switchgear terminal boxes and other equipment which need dehumidification for current time monitoring and control. The products with stable and reliable performance, moisture dehumidifying effect is obvious, long-term work in the strong electric field, magnetic field, wet, low temperature and other harsh environment. It can effectively prevent the electrical equipment accidents in operation due to the damp, creepage, flash improve the security of grid operation.

Technical parameters

Dehumidify power	50W
Heating power	40W
Temperature set range	+3°C ~+40°C
Humidity set range	40%RH~90RH
Rated voltage	110/220V AC
Withstand voltage	2kV/1min
Temperature display range	-9°C ~+99°C precision $\pm 1^\circ\text{C}$
Humidity display range	0~99%RH precision $\pm 5\%\text{RH}$
Working environment	-25°C ~+55°C, $\leq 95\%$
Dehumidify start condition	Humidity > set upper limit humidity
Dehumidify stop condition	Humidity < set lower limit humidity
Heating start condition	Temperature<set lower limit temperature
Heating stop condition	Temperature<set upper limit temperature



GPW-700
Controller



GPTH10
Temperature and humidity



GPHR-50
Dehumidifier

Model	Outline dimension(mm)	Installation method
GPHR-50 Controller	96X48X88	Cutting size 91X44mm
GPHR-50 Dehumidifier	95X150X180	For 35 rail
GPTH10	90X35X40	For 35 rail or M4 screw fixed.

GPHR-51/35 All-in-one intelligent cabinet dehumidifier

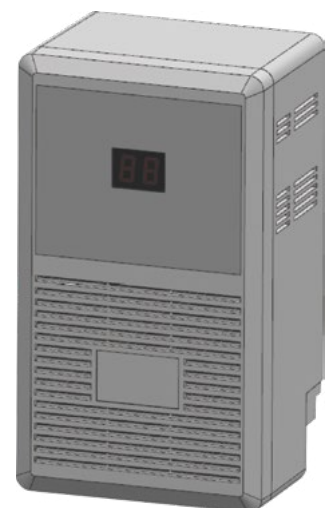
This product makes use of semiconductor refrigeration condensing dehumidification technology, using high performance temperature and humidity sensors and integration of advanced process control technology, used in switchgear, terminal boxes and other equipment which need dehumidification for current time monitoring and control. The products with small volume stable and reliable performance, moisture dehumidifying effect is obvious, long-term work in the strong electric field, magnetic field, wet, low temperature and other harsh environment. It can effectively prevent the electrical equipment.

Working principle

GPHR-51/35 All-in-one intelligent cabinet dehumidifier is consist of air supply device, dehumidifying device, and intelligent control unit. Combines the semiconductor refrigeration dehumidification technology, sensor detecting technology, automatic control technology, etc. When the system detects the environment humidity is higher than set dehumidification threshold, it start dehumidification function automatically. In the process of dehumidification, moist air is inhaled to the dehumidification devices by fan, after dehumidification equipment of refrigeration system's condensation dehumidification, reduce the humidity in the air, condensation of water is collected by the same tank and drained out of the cabinet by the hose, achieve the goal of dehumidification.

Characteristics

All-in-one design, internally installed switching power supply, small outline dimension
Using guide rail mounting structure, convenient and simple to install



Medium Voltage Switchgear Components 12~40.5kV

Using semiconductor dehumidification, temperature rise is low, long life, dehumidifying effect is good;
With alarm sensors, dehumidifier self-checking function, can quickly find the point of failure.
Environmental humidity 24 hours real-time monitoring, automatic dehumidification

Technical parameters

Dehumidify power	35W
VDD power	220V AC/DC
Start dehumidify threshold	75%RH
Stop dehumidify threshold	65%RH
Working environment	-10°C ~+45°C , ≤ 95%RH
Humidity display range	0~99%RH
Withstand voltage	2kV/1min
Outline dimension	155X900X74
Drainage way	By the hose

GPTP300 wireless temperature measurement system

The wireless temperature measurement consists of wireless temperature measurement module (referred to as the module, with various models) and wireless temperature measurement host (Wireless temperature monitoring terminal, referred to as the host) two parts. Wireless Temperature host for embedded installation mounted on the instrument panel room. Wireless temperature measurement module contacts the inner sleeve in the box, or buckle copper or at cable connection. By wireless communications between the temperature and other data.

Features

1. A host can be up collecting 16 wireless temperature measurement module (2.4G) temperature, and acquisition host installation position of the environmental temperature.
2. Support four kinds of alarm types, two sets of relay alarm output, including temperature measurement module wireless communication failure, temperature point temperature is too high, the temperature rise is too high, three-phase temperature difference is too large.
3. Host via 2.4G wireless module, and temperature measurement module for data exchange, acquisition of temperature difference measurement points.
4. By Isolated RS485 communication interface to communicate directly with the host computer. Field or single, multiple, remote communication network, such as GPRS DTU can also plug a wireless module. The computer can realize the data remote transmission, parameter modification.

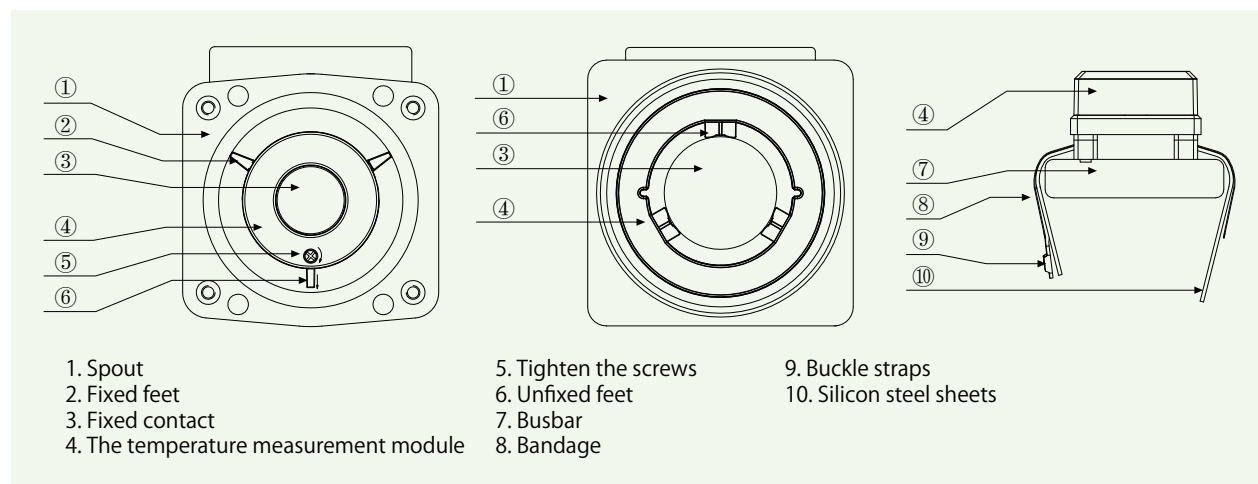


GPTP300M main controller technical parameters

Power supply	90 ~ 264V AC/100 ~ 370V DC
Supply frequency	50Hz ± % Using 16x2 monochrome LCD and four LED display
Alarm Output	Two replay, per AC250V/5A
Wireless communication distance	Open area 50-100 meters
Host power consumption	≤ 5W
The communication with PC	With Isolated

GPTP300S module technical parameters

When working, a primary side current range	AC 15A~4000A
Working temperature range	-30°C ~ +115°C
Measuring temperature range	-30°C ~ +125°C
Accuracy of measurement	± 1.0°C
Reaction Time	≤ 3s
Wireless communication distance	Open area 50-100 meters
Module Power consumption	≤ 0.1W
Operating life	10 years



GPW-700 Temperature and humidity controller

With good quality digital sensors and advanced technology of program control, the device has two channels to monitor and control the ambient temperature & humidity. Its humanized design can automatically adjust heat, dehumidify or alarm according to the working environment state.

The field data can be controllably connected with the background through RS485 to achieve remote data acquisition.

It has high performance on reliability, dampproof and dehumidification which can operate in tough environment like strong electric/magnetic field, damp and low temperature location for a long time. It enhance the safety of electric networks by avoiding all kinds of accident caused by dampness, creepage and flashover during the electrical equipments operation.

Technical parameters

Humidity range	0 to 99%RH accuracy 5%RH
Temperature range	-9°C to +99°C accuracy $\pm 1^\circ\text{C}$
Heating start point	Temperature < lower limit settings Humidity > upper limit settings
Heating stop point	Temperature > lower limit settings Humidity < upper limit settings
Fan start point	Temperature > upper limit settings of fan
Fan stop point	Temperature < lower limit settings of fan
Ambient Temperature	-25 to +55°C
Ambient Humidity	$\leq 95\%\text{RH}$
Temperature setting range	+3°C to +45°C
Humidity setting range	40%RH to 90%RH
Power supply	110V/220V AC
Withstand voltage	2 kv/min
Contact output capacity	250V/AC 5A
RS485	Modbus RTU
Outline dimension	144X44X108(mm)
Installation dimension	139 X45(mm)
Power Consumption	$\leq 5\text{W}$



Temperature and Humidity Controller GTPW-700



Sensor GPTH10

Blocking Magnet

Blocking magnet is widely used for controlling high voltage equipment. For example, the breaker and switchgear etc. The magnet has many types including blocking magnet, open/closing coils.

Product description

Model	Dimension	Power	Stroke
GPM-1	28x30x30.5	6W(long-term continuous working)	6mm
GPM-2	32x38x46	12W(long-term continuous working)	6mm
GPM-3	25x30x50.1	18W (short time working)	10mm
GPM-4	Φ 34x22.3	250W(short time working)	32°
GPM-5	Φ 70x84	600W(short time working) 100W(long-term continuous working)	10mm
GPM-6	Φ 32x61	220W(short time working)	32mm
GPM-7	31.5x38x44	220W(short time working)	10mm
GPM-8	32x38x65	50VA (short time working)	20mm
GPM-9	Magnet:52x70x37 Control box: 78x78x30	Long-term continuous working Coils power: 400(short time working) Keeping coils power:4-6W (Long-term continuous working)	10mm
GPM-10	69.5x61x35	6W(long-term continuous working)	9mm



GPM-1

GPM-2

GPM-3



GPM-4

GPM-5

GPM-6



GPM-7

GPM-8

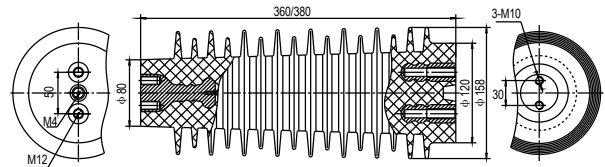
GPM-10

K

- GPNN40.5-360(S)/380(S) Insulator/ capacity insulator(sensor)



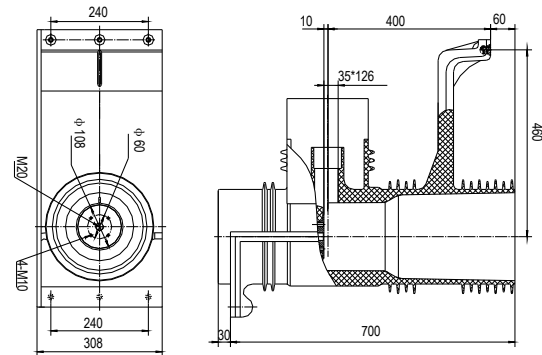
Technical specification:
 Rated voltage: 40.5kV
 Power frequency withstand voltage:
 118kV/1min
 Partial discharge: $40.5kV \leq 3pC$ (reference
 value)
 Lighting impulse withstand voltage: 235kV
 Suit for altitude: 2500m
 Glass transition temperature : $\geq 95^{\circ}C$



● GPHN40.5-/730-4 Screen shield contact box



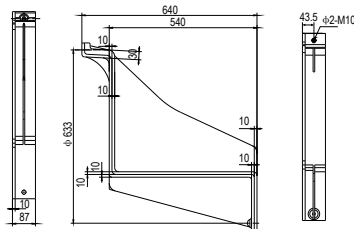
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
137kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference
value)
Lighting impulse withstand voltage: 267kV
Suit for altitude: 4000m
Glass transition temperature : $\geq 95^{\circ}\text{C}$



● GPB40.5-007 Supporting partition



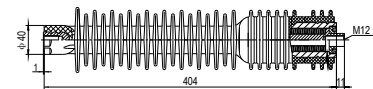
Technical specification:
Specification: Width 87
Suit for altitude: 4000m



● GPNN40.5/2000A-31.5kA Insulating tension rod



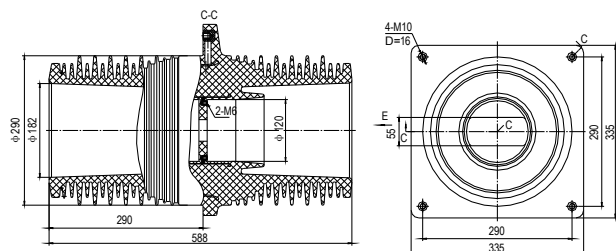
Technical specification:
Rated voltage: 40.5kV
Tension strength: > 25kN
Rated voltage: 2000A
Power frequency withstand voltage:
137kV/1min
Suit for altitude: 4000m



● GPN40.5-408P/588 Screen shield wall bushing



Technical specification:
 Rated voltage: 40.5kV
 Power frequency withstand voltage:
 137kV/1min
 Partial discharge: $40.5kV \leq 3pC$ (reference
 value)
 Lighting impulse withstand voltage: 267kV
 Suit for altitude: 4000m
 Glass transition temperature : $\geq 95^{\circ}C$

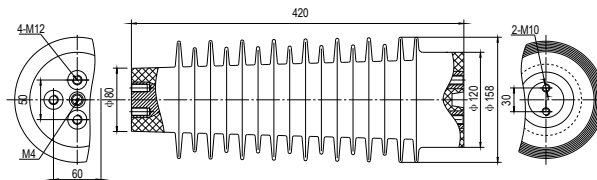


Insulation Components 12~40.5kV

● GPNN40.5/420(S) Insulator/ Capacity insulator(Sensor)



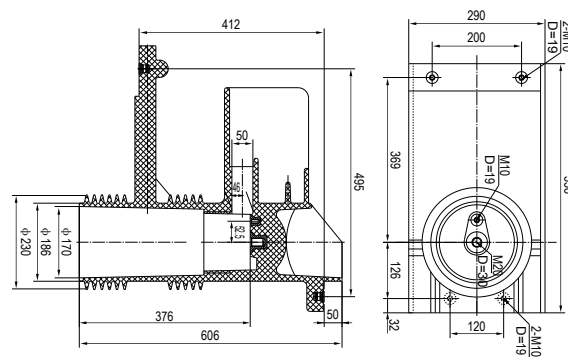
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
137kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference
value)
Lighting impulse withstand voltage: 267kV
Suit for altitude: 4000m
Glass transition temperature : $\geq 95^{\circ}\text{C}$



● GPHN40.5-304P/606 Screen shield contact box



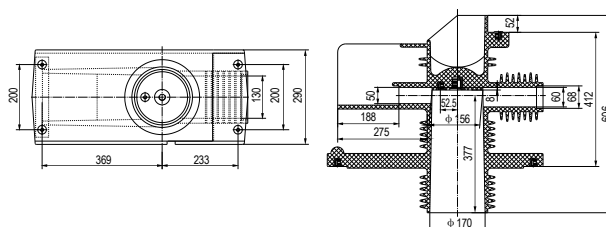
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference
value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : $\geq 95^{\circ}\text{C}$



● GPHN3-40.5/606 Three-way screen shield contact box



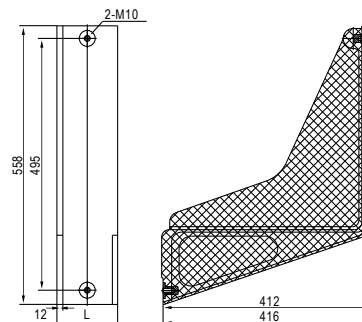
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference
value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : $\geq 95^{\circ}\text{C}$



● GPB40.5-003/122 Supporting partition GPB40.5-003/192 Supporting partition



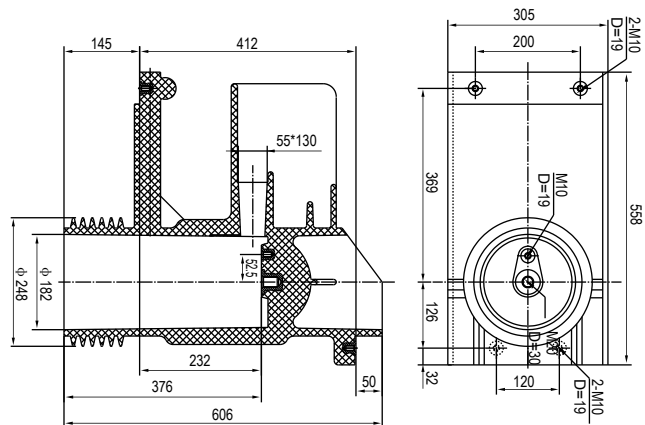
Technical specification:
Rated voltage: 40.5kV
Specification: L=192 for GPN1 cubicle
L=122



GPHN40.5-306P/606 Screen shield contact box



Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : $\geq 95^\circ\text{C}$

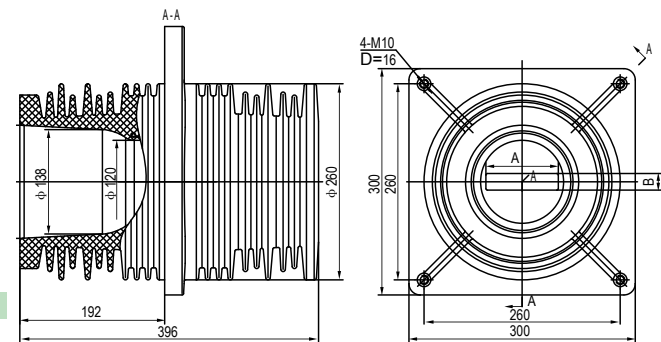


GPN40.5-404P/395 Screen shield wall bushing



Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $40.5\text{kV} \leq 3\text{pC}$ (reference value)
Lighting impulse withstand voltage: 200kV
Glass transition temperature : $\geq 95^\circ\text{C}$

AxB (Busbar opening size)			
88x18x2	70x20	90x20	108x18
90x18	110x20	75x25	95x25

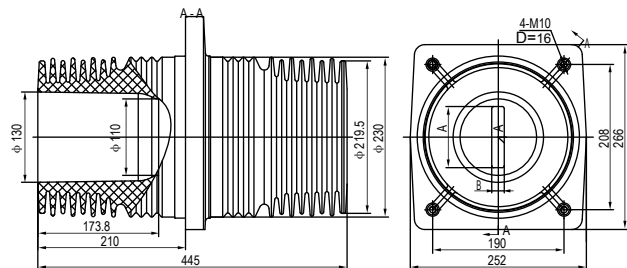


GPN40.5-403P/445 Screen shield wall bushing



Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $40.5\text{kV} \leq 3\text{pC}$ (reference value)
Lighting impulse withstand voltage: 200kV
Glass transition temperature : $\geq 95^\circ\text{C}$

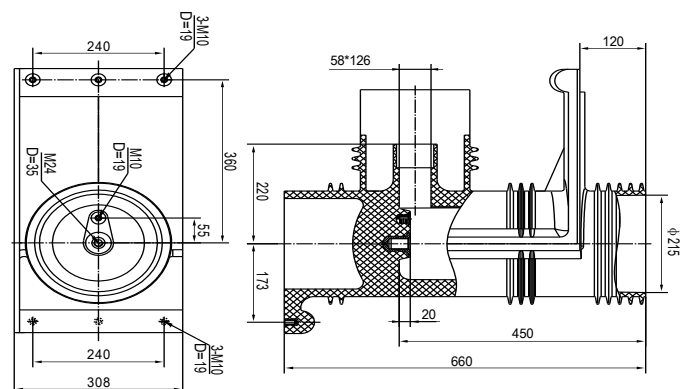
AxB (Busbar opening size)			
88x18x2	70x20	90x20	108x18
90x18	110x20	75x25	95x25



GPN40.5-303P/660 Screen shield contact box



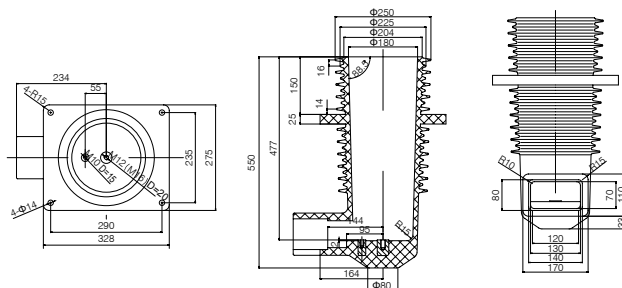
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: $52.6\text{kV} \leq 3\text{pC}$ (reference value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : $\geq 95^\circ\text{C}$



● GPHJ1-40.5kV Contact box



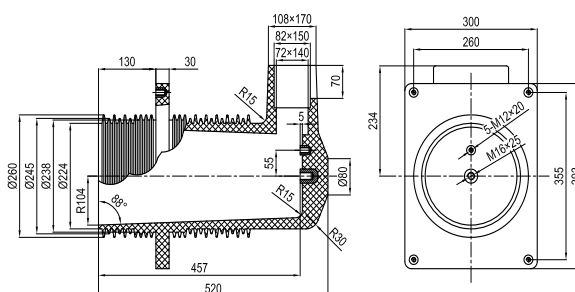
Technical specification:
Rated voltage: 40.5kV
Short circuit power frequency withstand
voltage: 95kV/1min
Lighting impulse withstand voltage: 185kV



● GPHJ7-40.5kV Contact box



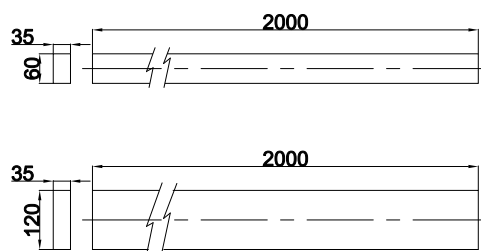
Technical specification:
Rated voltage: 40.5kV
Short circuit power frequency withstand
voltage: 95kV/1min
Lighting impulse withstand voltage: 185kV



- GPI-40.5/60(120) Insulating beam for fixing the contact box 40.5kV



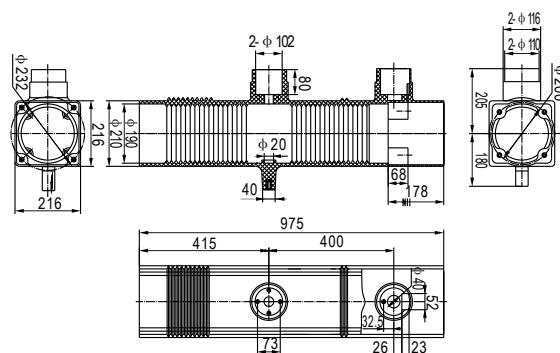
GPI-40.5/60
GPI-40.5/120
For fixing voltage 40.5KV contact box
(1 set: 35 × 60 × 2000 × 2 pcs; 35 × 120 × 2000 × 1 pc)
Providing 3,5,10mm thickness insulating sheet



● GPN40.5/975(Height) Insulating Sleeve Suit for Siemens VI



Technical specification:
 Rated voltage: 40.5kV
 Power frequency withstand voltage:
 95kV/1min
 Partial discharge: $40.5\text{kV} \leq 5\text{pC}$ (reference
 value)
 Lighting impulse withstand voltage: 185kV
 Glass transition temperature : $\geq 95^{\circ}\text{C}$

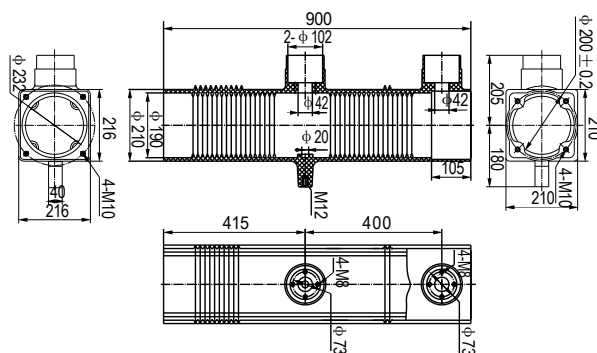


Insulation Components 12~40.5kV

● GPN40.5/900-1(Height) Insulating Sleeve Suit for Baoguang VI



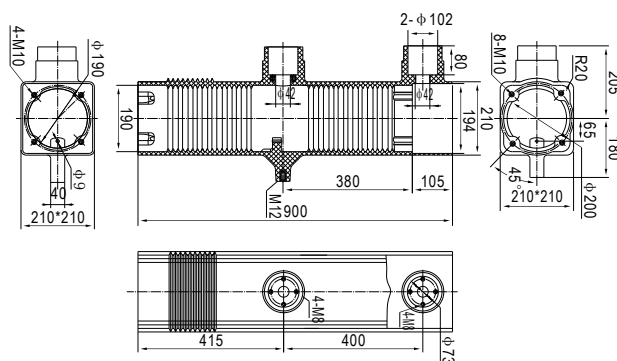
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: 40.5kV ≤ 5pC(reference
value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : ≥ 95℃



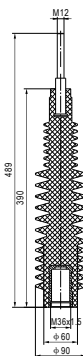
● GPN40.5/900-2(Height) Insulating Sleeve Suit for SIEMENS (3AV7)



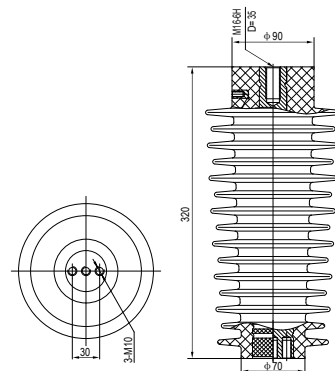
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: 40.5kV ≤ 5pC(reference
value)
Lighting impulse withstand voltage: 185kV
Glass transition temperature : ≥ 95℃



● GPNY40.5/489 Insulating tension rod (SMC molded)



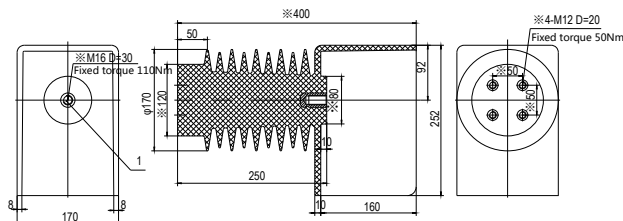
● GPNY40.5-320(S) Insulator/ Capacity insulator(Sensor)



● GPN40.5-5 Φ 170x400 Conjoined insulator



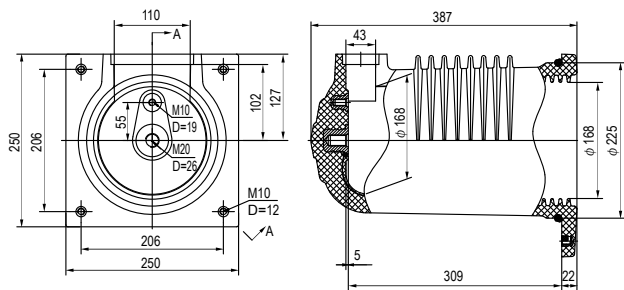
Technical specification:
Rated voltage: 40.5kV
Power frequency withstand voltage:
95kV/1min
Partial discharge: 44.6kV < 5pC(reference
value)
Lighting impulse withstand voltage: 185kV



● GPHN24-507P Screen shield contact box



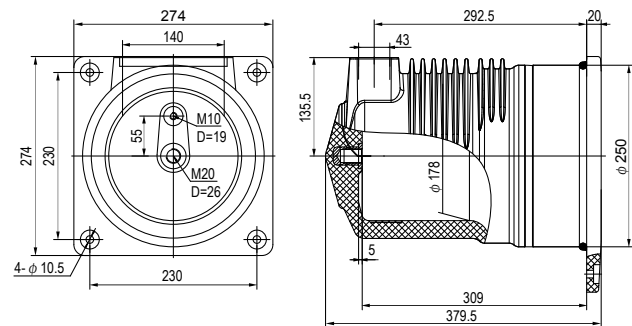
Technical specification:
Rated voltage: 24kV
Rated current: 2000A~2500A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^{\circ}\text{C}$
Creepage distance: $> 480\text{mm}$



● GPHN24-506P Screen shield contact box



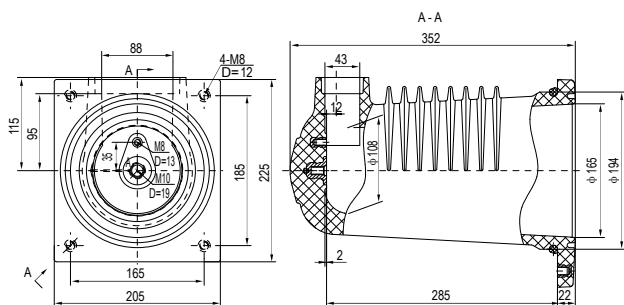
Technical specification:
Rated voltage: 24kV
Rated current: 2500A~3150A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^{\circ}\text{C}$
Creepage distance: $> 480\text{mm}$



● GPN24-508P Screen shield contact box



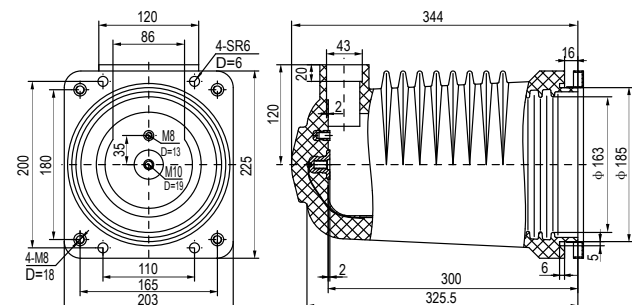
Technical specification:
Rated voltage: 24kV
Rated current: 630A~1600A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^{\circ}\text{C}$
Creepage distance: $> 480\text{mm}$



● GPHN24-503P Screen shield contact box



Technical specification:
Rated voltage: 24kV
Rated current: 630A~1600A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^{\circ}\text{C}$
Creepage distance: $> 480\text{mm}$

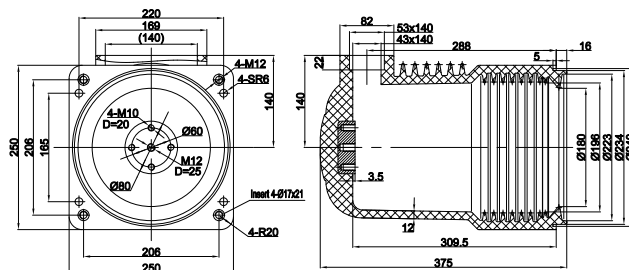


Insulation Components 12~40.5kV

● GPHZ03-24kV Contact box



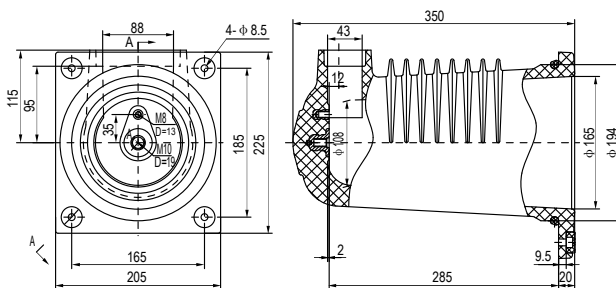
Technical specification:
Rated voltage: 24kV
Rated current: 2000A~3150A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^\circ\text{C}$
Creepage distance: $> 480\text{mm}$



● GPHN24-501P Screen shield contact box



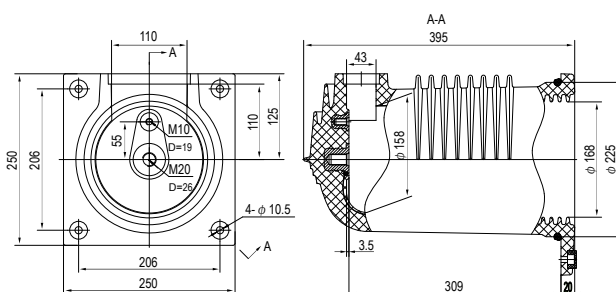
Technical specification:
Rated voltage: 24kV
Rated current: 630A~1600A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^\circ\text{C}$
Creepage distance: $> 480\text{mm}$



● GPHN24-502P Screen shield contact box



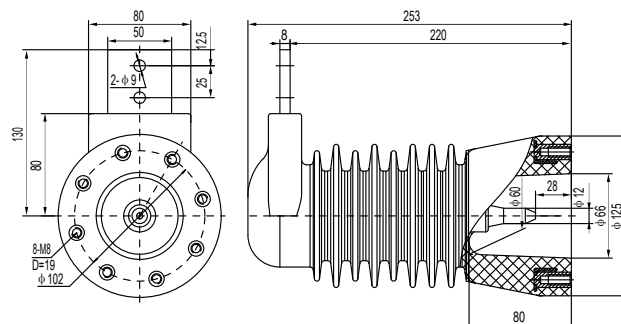
Technical specification:
Rated voltage: 24kV
Rated current: 2000A~2500A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4\text{kV} \leq 5\text{pC}$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^\circ\text{C}$
Creepage distance: $> 480\text{mm}$



● GPHN24/125 Contact box



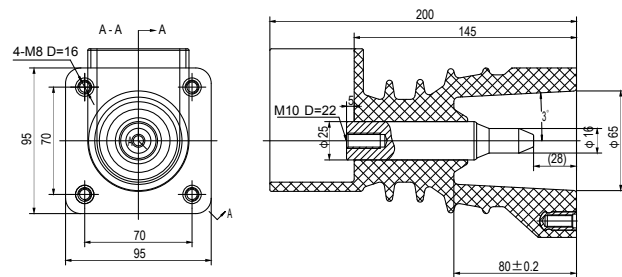
Technical specification:
Rated voltage: 24kV
Rated current: 400A~630A



● GP-SF6-12/200 Busbar transferring insulator



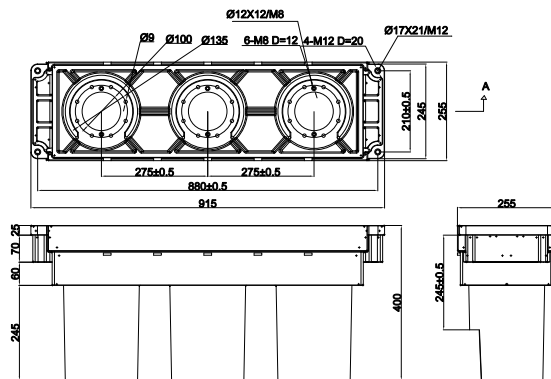
Technical specification:
Rated voltage: 12kV
Rated current: 630A~3150A



● GPHZ07-24kV Conjoint contact box



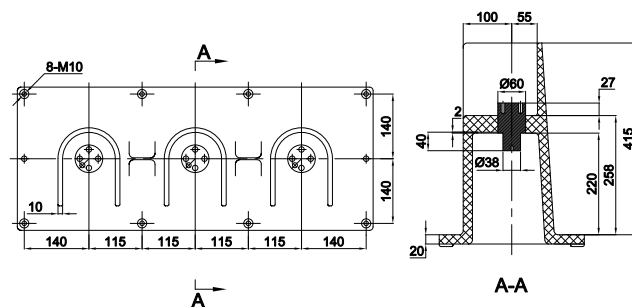
Technical specification:
Rated voltage: 24kV
Rated current: 630A~3150A



● GPHZ09-24kV Conjoint contact box



Technical specification:
Rated voltage: 24kV
Rated current $\leq 2000A$

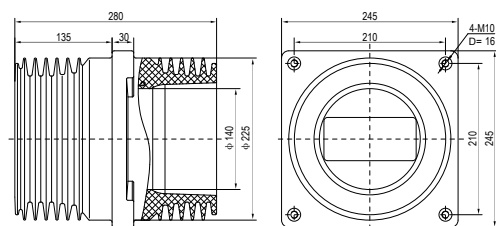


- GPN24-602P Screen shield wall bushing



Technical specification:
 Rated voltage: 24kV
 Rated current: 2500A
 Power frequency withstand voltage:
 65kV/1min
 Partial discharge: $26.4kV \leq 5pC$ (reference
 value)
 Lighting impulse withstand voltage: 125kV
 Glass transition temperature : $\geq 105^{\circ}C$
 Creepage distance: $> 480mm$

88x18x2	90x20	108x18x2	68x14
88x18x3	108x18	70x20x2	



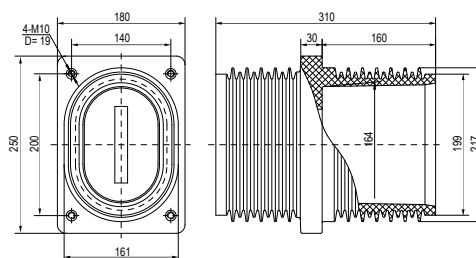
Insulation Components 12~40.5kV

● GPN24/140x200 Screen shield wall bushing



Technical specification:
Rated voltage: 24kV
Rated current: 630A~1250A

Busbar opening size			
88x18x2	90x20	108x18x2	68x14
88x18x3	108x18	70x20x2	

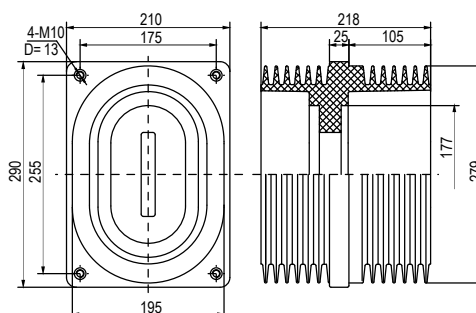


● GPN24/175x255 Screen shield wall bushing



Technical specification:
Rated voltage: 24kV
Rated current: 2500A~3150A

Busbar opening size			
80x10	80x10x2	100x10	
100x10x2	120x10x2	120x10x3	

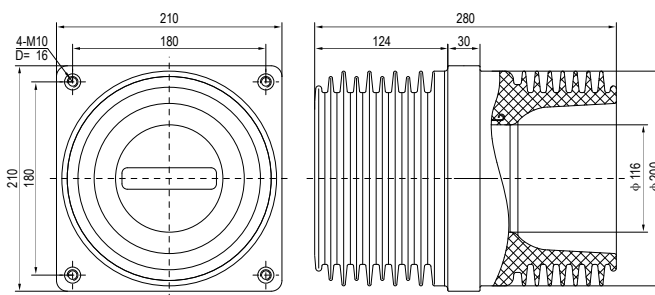


● GPN24-603P Screen shield wall bushing



Technical specification:
Rated voltage: 24kV
Rated current: 1250A
Power frequency withstand voltage:
65kV/1min
Partial discharge: $26.4kV \leq 5pC$ (reference value)
Lighting impulse withstand voltage: 125kV
Glass transition temperature : $\geq 105^{\circ}C$
Creepage distance: $> 480mm$

Busbar opening size			
88x18x2	90x20	70x20x2	68x14

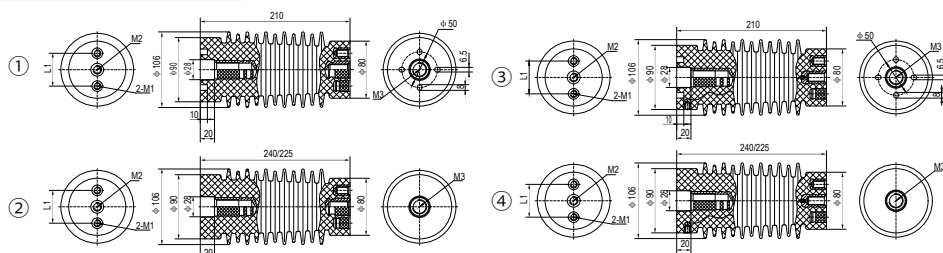


● GPNN24/210(S)-240(S)-225(S) Insulator/ capacity insulator(Sensor)



Code	Specification	
L1	36	46
M1	M10	M8
M2	M16	M12
M3	M20	M16

Technical specification:
Rated voltage: 24kV



- GPN24/593 Insulating sleeve



Cover (flame retardant ABS)

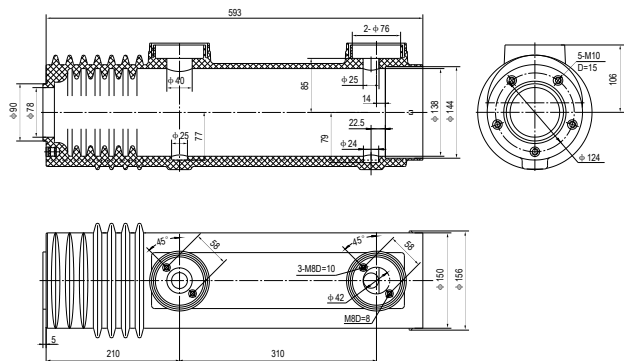


Gasket ring



Arm sleeve
(flame retardant ABS)

Technical specification:
Rated voltage: 24kV
Rated current: 1250A



- GPN24/650 Insulating sleeve



Cover (flame retardant ABS)

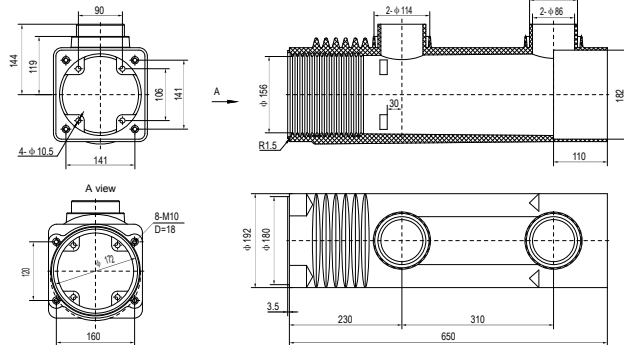


Arm sleeve
(flame retardant ABS)

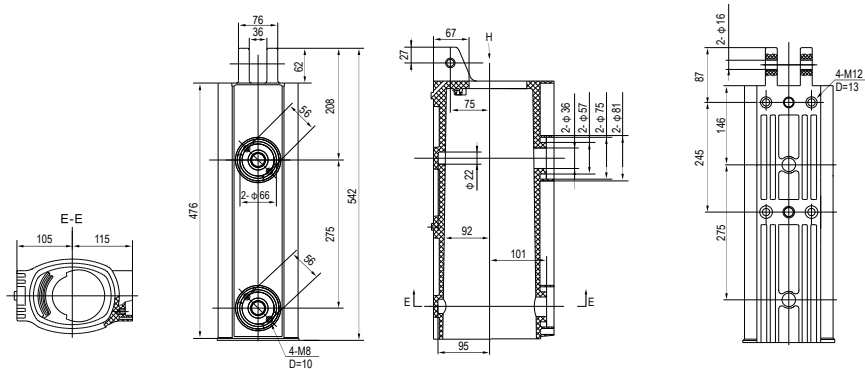


Shutter lifting
plate(BMC molded)

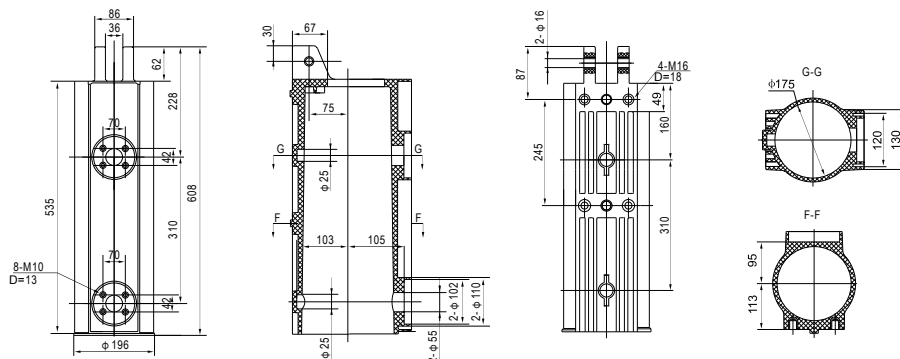
Technical specification:
Rated voltage: 24kV
Rated current: 3150A



- GP-VBI-12/545 Insulating sleeve, rated current: 1250A

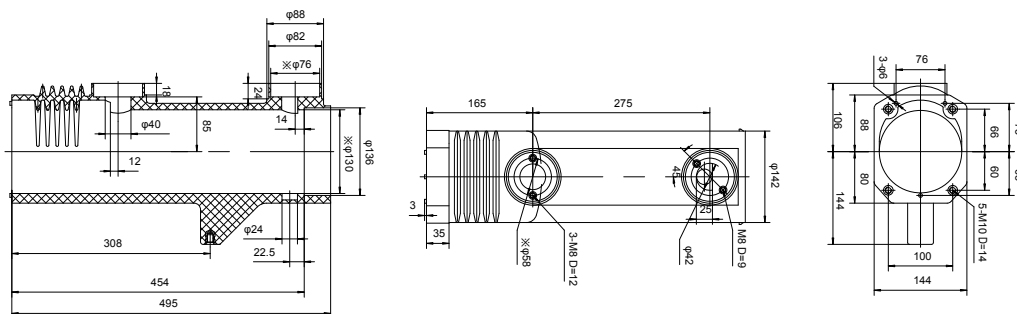


- GP-VBI-12/608 Insulating sleeve, rated current: 3150A

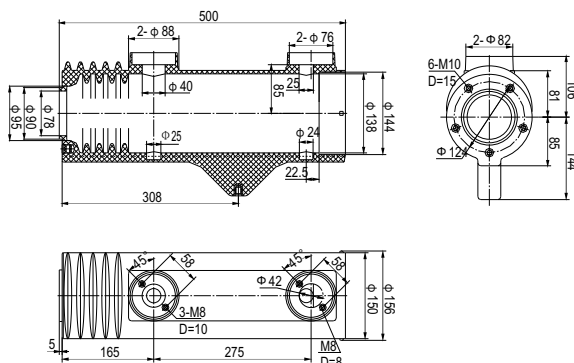


Insulation Components 12~40.5kV

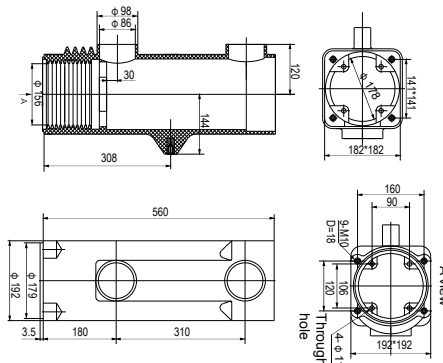
● GPVN-12/495 Insulating sleeve(Compact), rated current: 1250A



● GPVN-12/500 Insulating sleeve rated current: 1250A



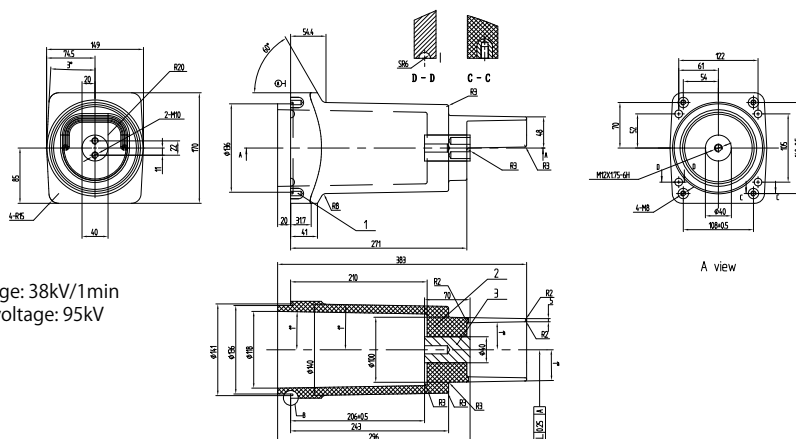
● GPVN-12/560 Insulating sleeve, rated current: 3150A



● GPZ1-17.5kV/1250A Contact box



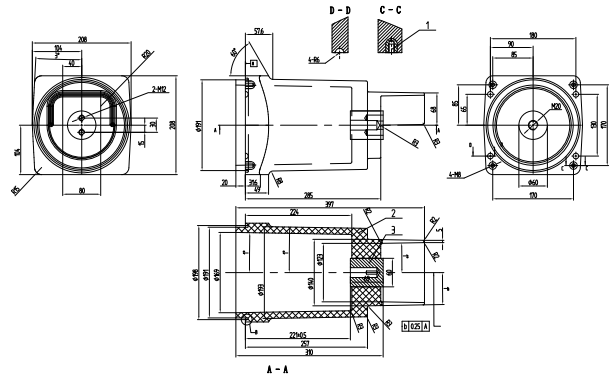
Technical specification:
Rated voltage: 17.5kV
Rated current: 1250A
Rated power withstand voltage: 38kV/1min
Lighting impulse withstand voltage: 95kV
Partial discharge:
1) 10.6kV<5pC
2) 15.16<10pC
3) 18.38<100pC



GPZ1-17.5kV/2000A Contact box



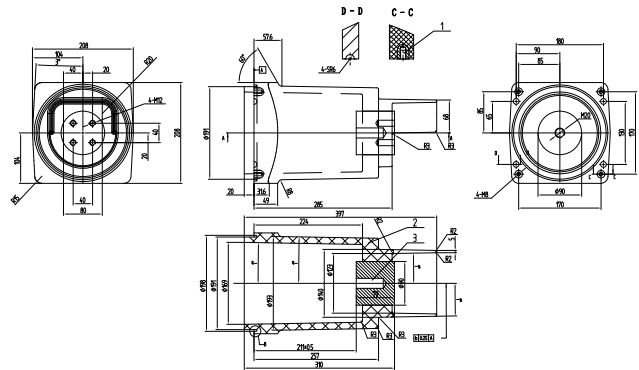
Technical specification:
Rated voltage: 17.5kV
Rated current: 2000A
Rated power withstand voltage: 38kV/1min
Lighting impulse withstand voltage: 95kV
Partial discharge:
1) 10.6kV<5pC
2) 15.16<10pC
3) 18.38<100pC



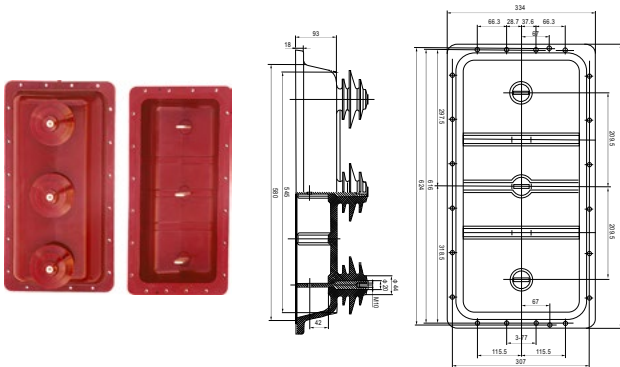
GPZ1-17.5kV/3150A Contact box



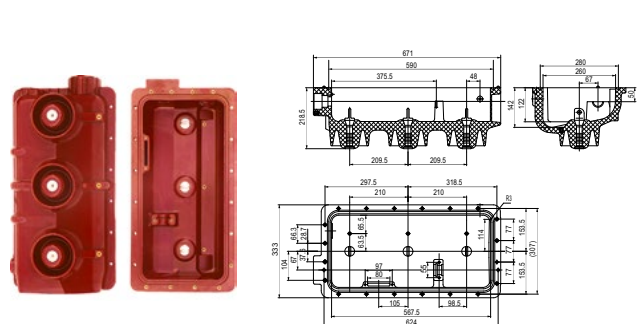
Technical specification:
Rated voltage: 17.5kV
Rated current: 3150A
Rated power withstand voltage: 38kV/1min
Lighting impulse withstand voltage: 95kV
Partial discharge:
1) 10.6kV<5pC
2) 15.16<10pC
3) 18.38<100pC



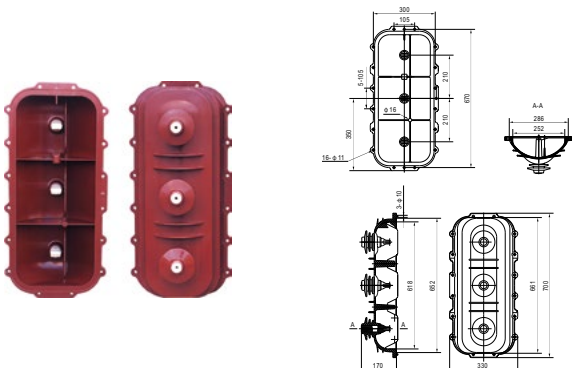
GP-SF6-12/642 Upper enclosure



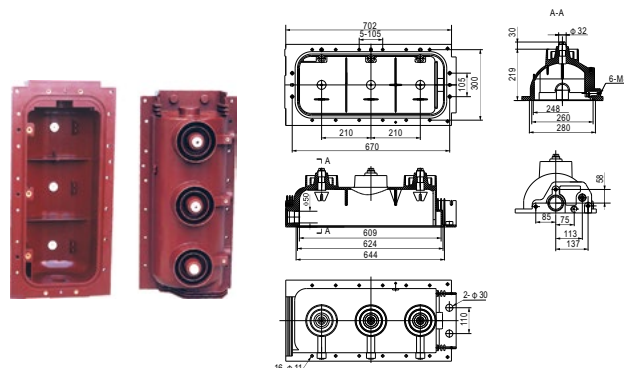
GP-SF6-12/671 Down enclosure



GP-SF6-12/700 Upper enclosure

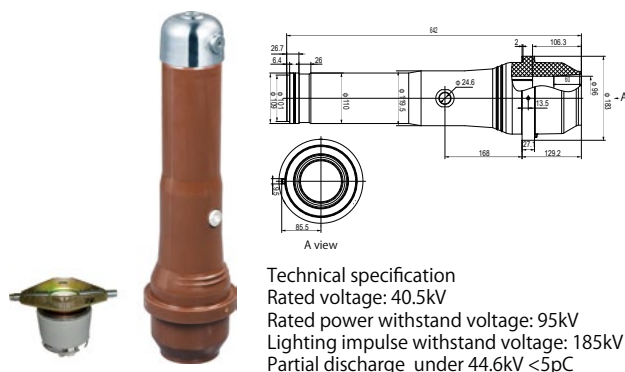


GP-SF6-12/720 Down enclosure

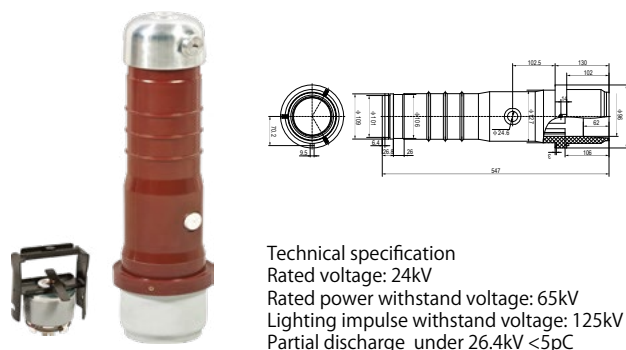


Insulation Components 12~40.5kV

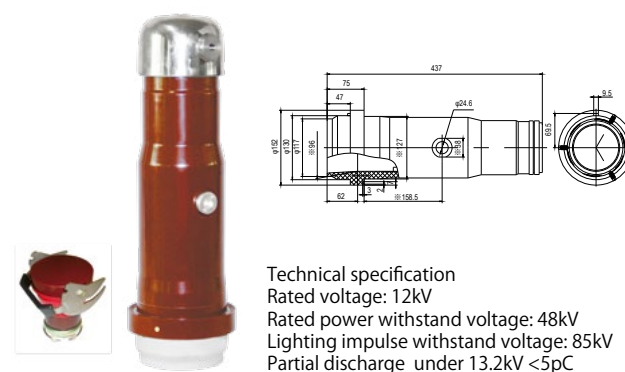
● GP-SF6-35/642 Fuse insulating sleeve



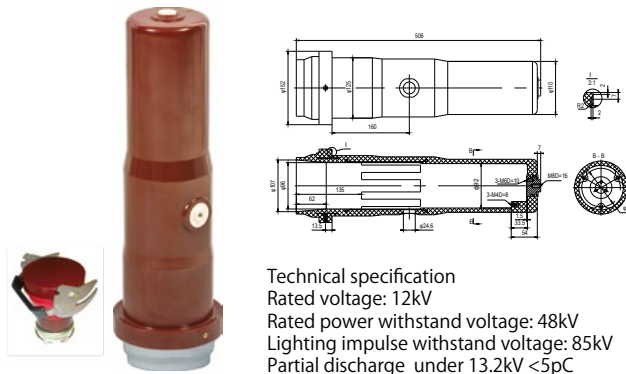
● GP-SF6-24/547 Fuse insulating sleeve



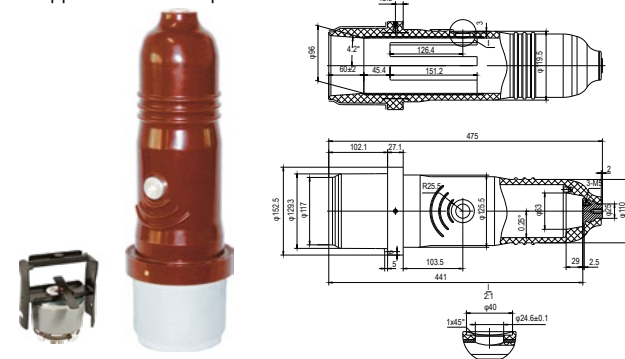
● GP-SF6-12/437 Fuse insulating sleeve



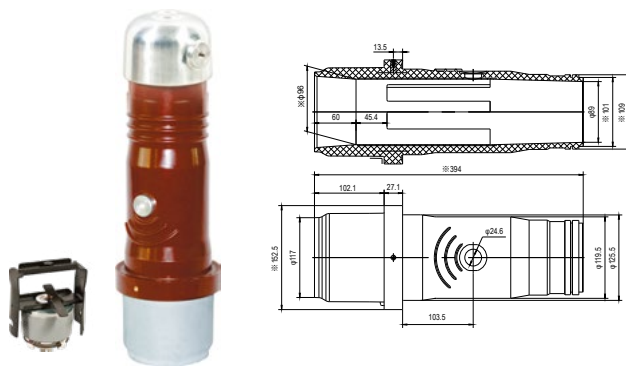
● GP-SF6-12/506 Fuse insulating sleeve



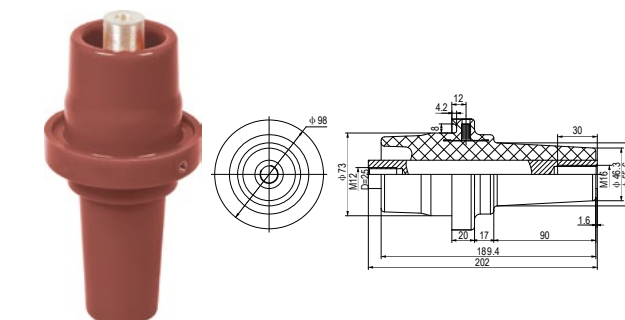
● GP-SF6-12/470 Fuse insulating sleeve Application for RMU panel



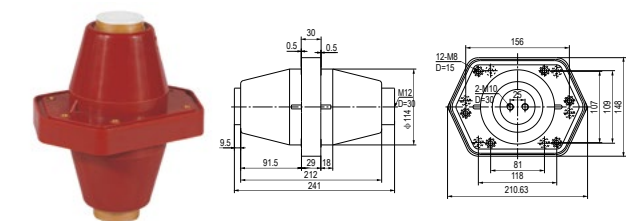
● GP-SF6-12/394 Fuse Insulating sleeve



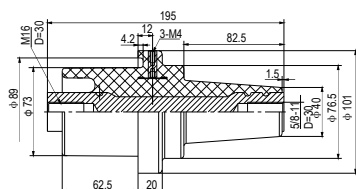
● GP-SF6-12/202 Compound sleeve (Europe type)



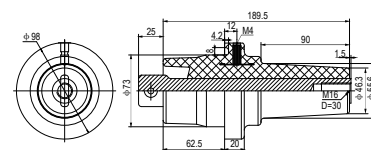
● CGIS24/241 Feedthrough insulating bushing



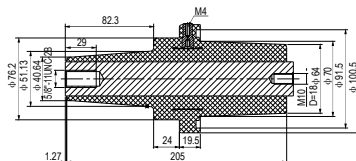
● GP-SF6-12/195 bushing Insert (America-type)



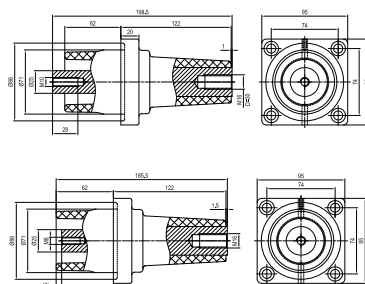
● GP-SF6-12/216 Compound sleeve (Europe type)
Rated current: 630A



● GP-SF6-12/205 Compound sleeve



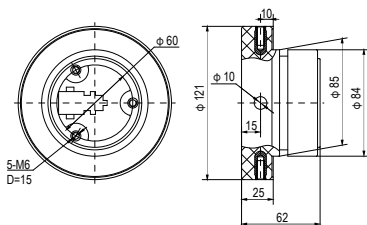
- GP-SF6-24/198.5 Inlet insulator
- GP-SF6-24/185.5 Outlet insulator



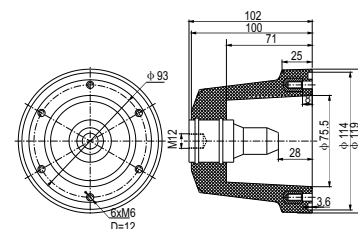
Inlet

Outlet

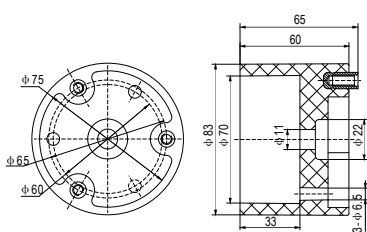
- GP-SF6-24/62 Insulating plug



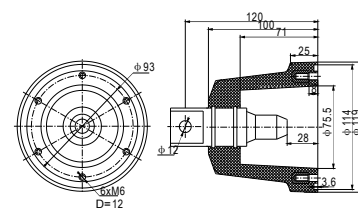
● GP-SF6-24/102 Busbar insulator



● GP-SF6-24/65 Bushing

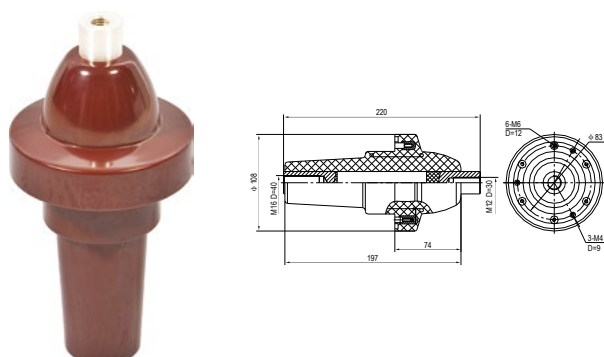


● GP-SF6-24/135 Busbar insulator

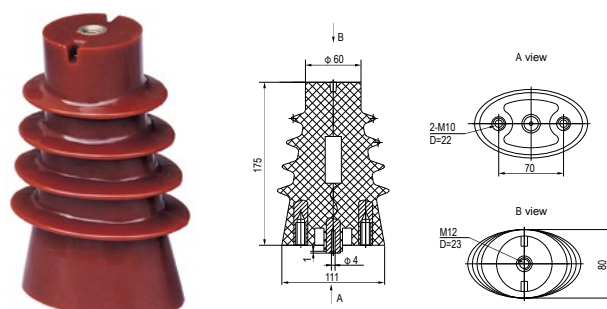


Insulation Components 12~40.5kV

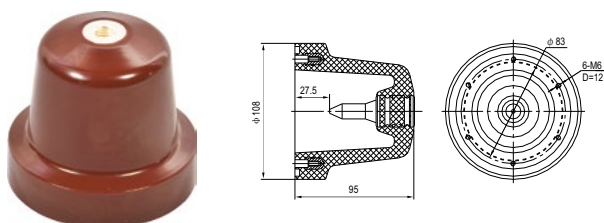
● GP-SF6-12/220 Incoming insulator



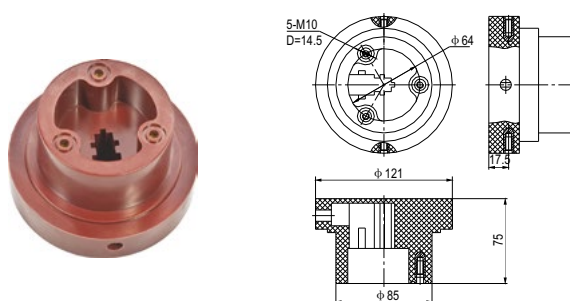
● GPN-6/111x175 Indicating device insulator



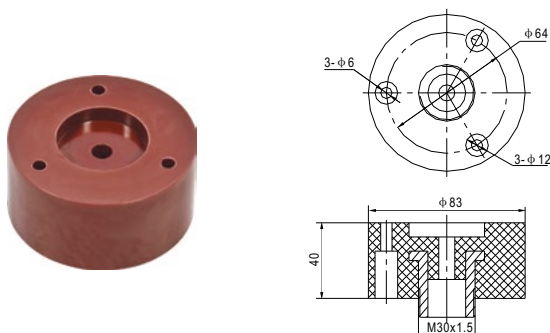
● GP-SF6-12/95 Busbar insulator



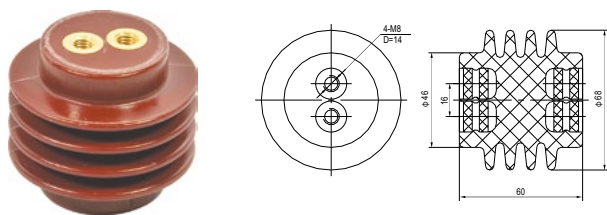
● GP-SF6-12/75 Insulating plug



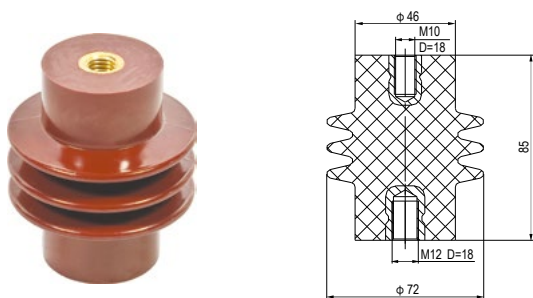
● GP-SF6-12/40 Bushing



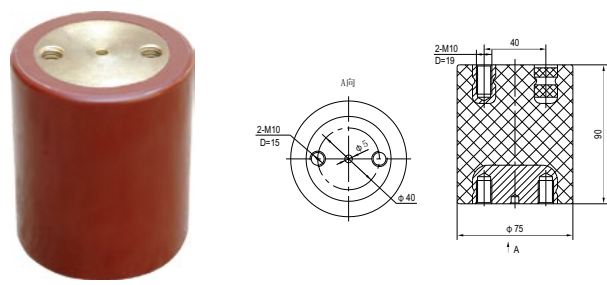
● GP-SF6-12/60 Supporting insulator



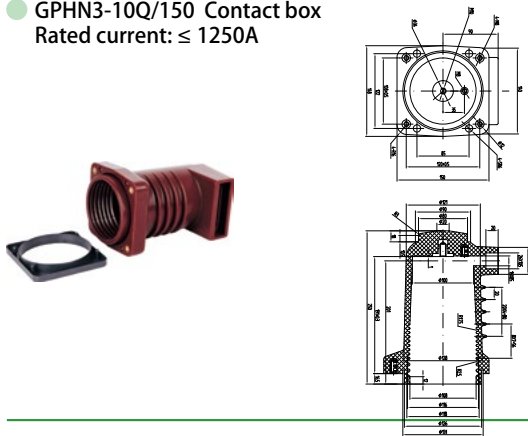
● GP-SF6-12/85 Busbar Insulator



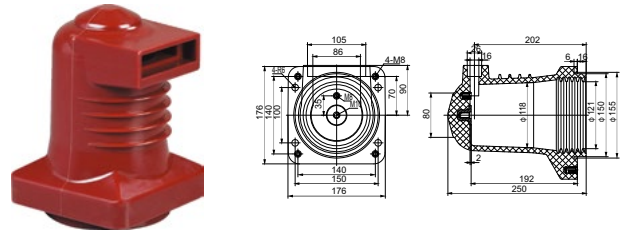
● GP-SF6-12/90 Insulator



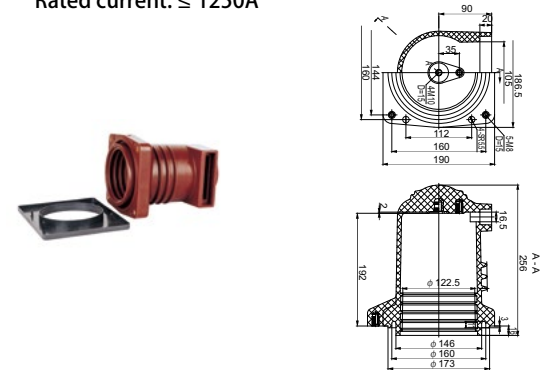
● GPHN3-10Q/150 Contact box
Rated current: $\leq 1250A$



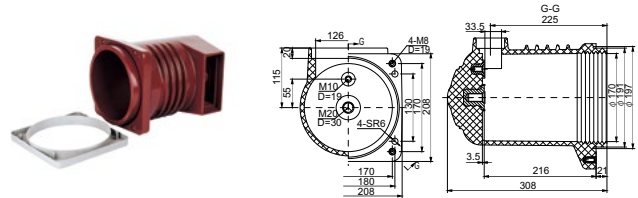
● GPHN3-10Q/176 Contact box
Rated current: $\leq 1250A$



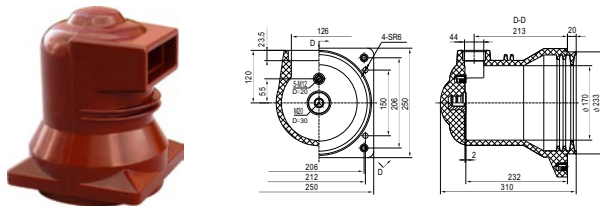
● GPHN3-10Q/190 Contact box
Rated current: $\leq 1250A$



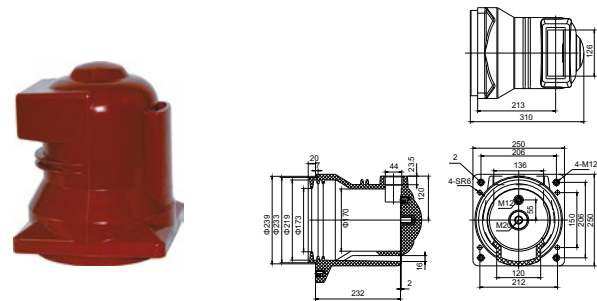
● GPHN3-10Q/208 Contact box
Rated current: $\leq 2500A$



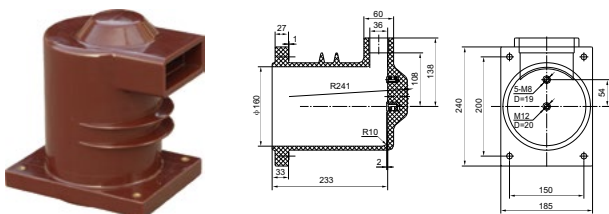
● GPHN3-10Q/250S Contact box
Rated current: $\leq 3150A$



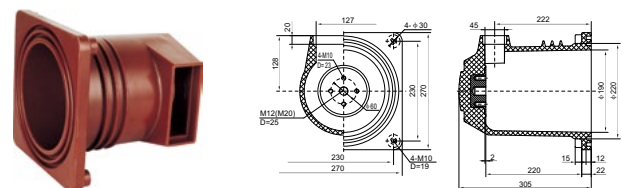
● GPHN3-10Q/250 Contact box
Rated current: $\leq 4000A$



● GPHN3-10Q/240 Contact box
Rated current: $\leq 2000A$



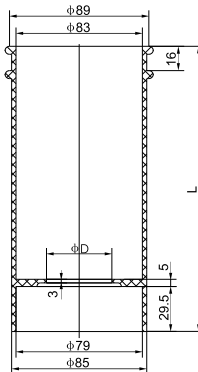
● GPHN3-10Q/230 Contact box
Rated current: $\leq 3150A$



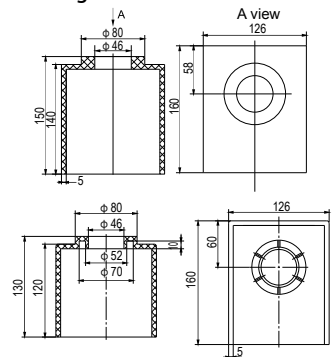
● 8GP.755.010 Insulating sleeve(GPVN/VD4)



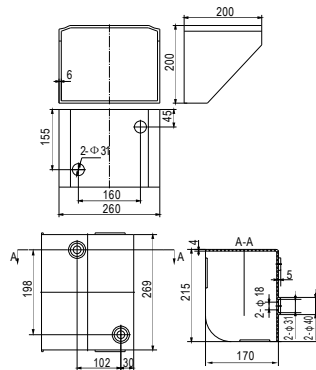
L	D
158	45/51
168	45/51
186	45/51
210	45
255	45/51
263	45/51



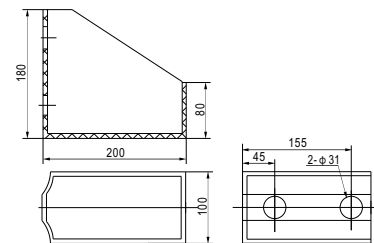
- 8GP.810.010 PT upper Insulating cover
- 8GP.810.010-1 PT upper Insulating cover



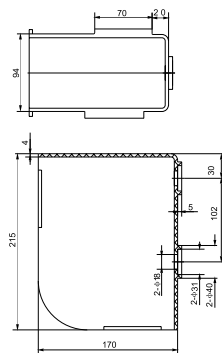
● 8GP.810.011 Insulating shield
8GP.810.011-1 shield



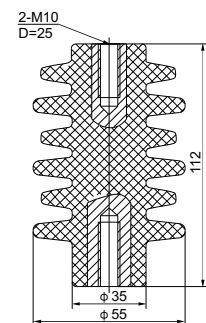
● 8GP.810.012 PT down insulating cover



● 8GP.810.012-1 PT down insulating cover

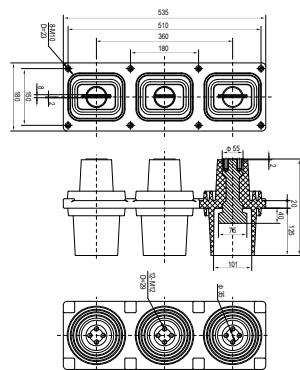


● GPZ-112 Φ 65x112 VE tension rod
BMC Moulded

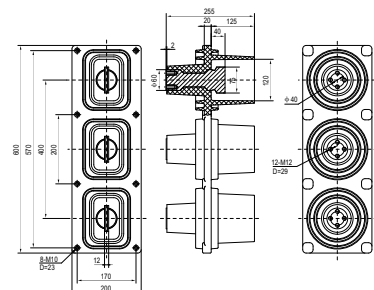


BMC moulded pressure

● GPDS-630 VE Fixed socket part

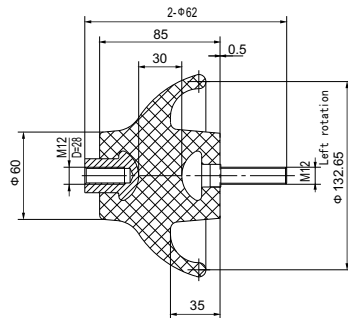


● GPDS-1250 VE Fixed socket part



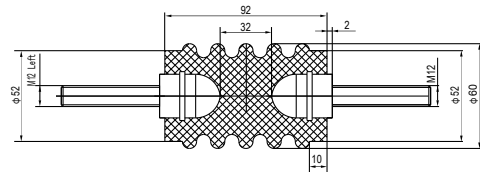
Insulation Components 12~40.5kV

● GPNY40.5/142.5 Insulating tension rod



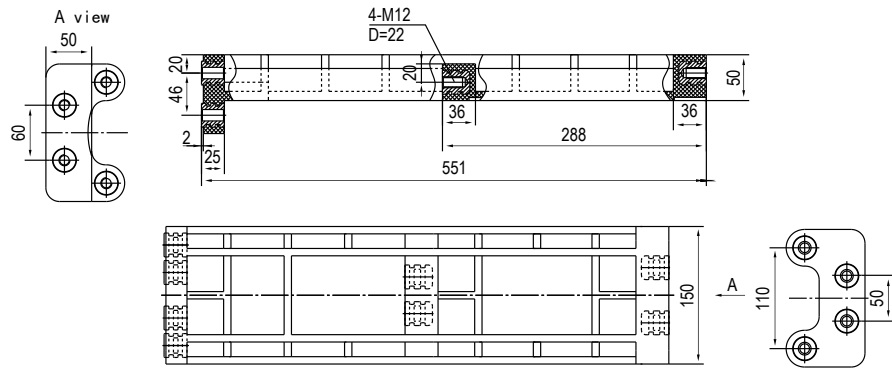
BMC moulded pressure

● GP-SF6-35/92 Insulating tension rod

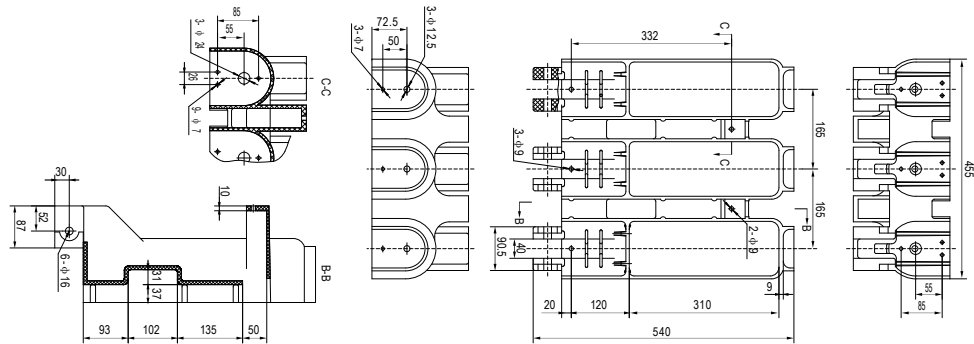


BMC moulded pressure

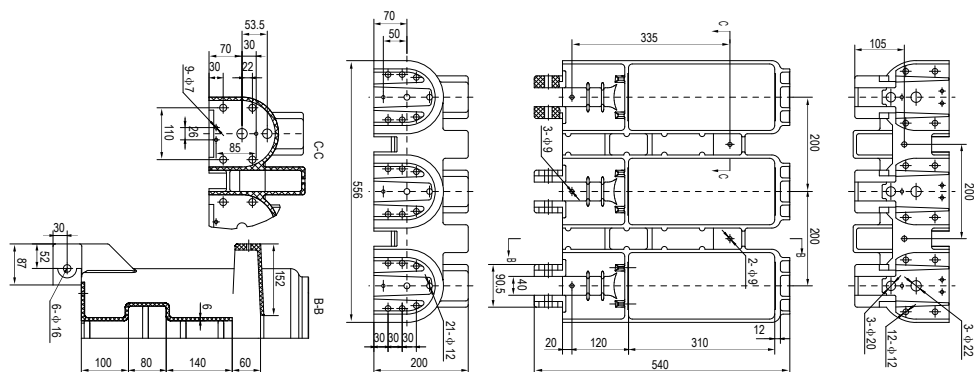
● GPZJ40.5/551 Insulating bracket



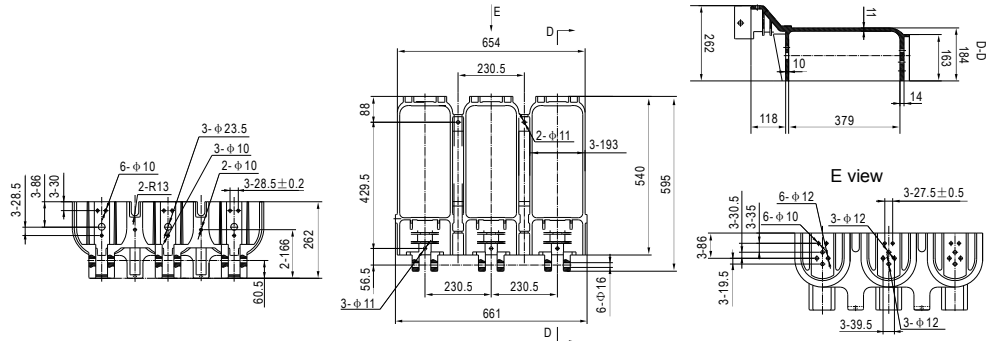
● GPVK-12/630A Insulating bracket SMC moulded



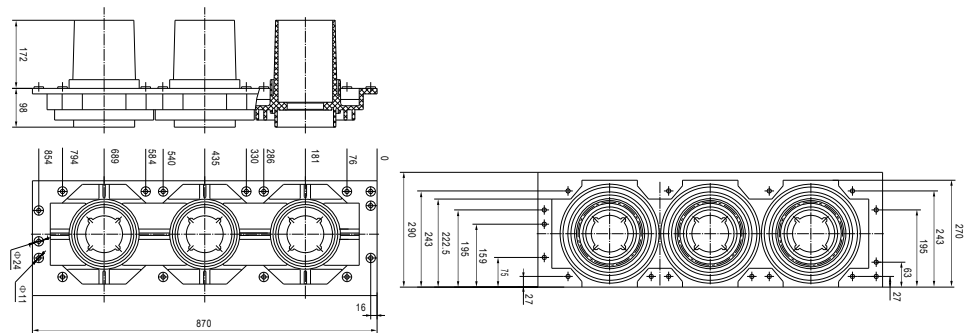
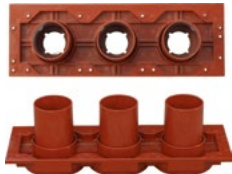
● GPVK-12/1250A Insulating bracket SMC moulded



● **GPVK-12/3150A Insulating bracket**
SMC moulded



● **GPN-12/870 Insulating part**
BMC Moulded 870X290X270

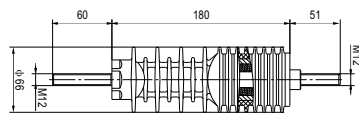


● **24kV/ 25kA Tension rod**
24kV/31.5kA Tension rod



Technical data:
Rated voltage: 24kV
Tension strength >25kN
Rated current: 630A~1250A
Material: PA66 Plastic injection.

Drawing no.	Type
5GP24.026.103.01	24kV/25kA
5GP24.026.103.02	24kV/31.5kA

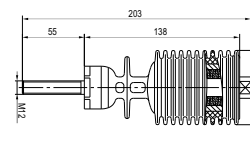


● **12kV/31.5kA Tension rod**
12kV/40kA Tension rod



Technical data:
Rated voltage: 12kV
Tension strength >25kN
Rated current: 1250A~3150A
Material: PA66 Plastic injection.

Drawing no.	Type
5GP12.026.104.01	12kV/31.5kA
5GP12.026.104.02	12kV/40kA

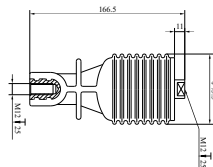


● **24kV/50kA Tension rod**



Technical data:
Rated voltage: 24kV
Tension strength >25kN
Rated current: 1250A
Material: PA66 Plastic injection.

Drawing no.	Type
5GP12.026.127	24kV/50kA

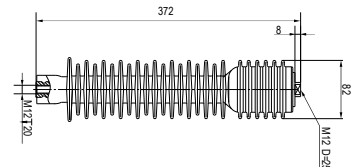


● **40.5kV/31.5kA Tension rod**



Technical data:
Rated voltage: 40.5kV
Tension strength >25kN
Rated current: 1250A~3150A
Material: PA66 Plastic injection.

Drawing no.	Type
5GP35.026.128.02	40.5kV/31.5kA

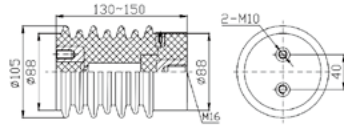


Insulation Components 12~40.5kV

● GPCG107-3.6/7.2/12 Sensor



Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.

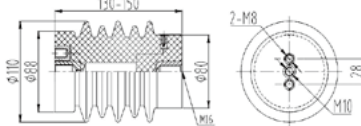


Code	Middle hole	Side hole	Hole distance	Bottom hole
A		2-M10	36	M16
B		2-M10	40	M16
C	M16	4-M12	40x40	M16

● GPCG108-3.6/7.2/12 Sensor



Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.

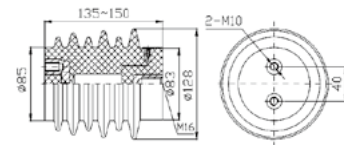


Code	Middle hole	Side hole	Hole distance	Bottom hole
A	M10	2-M8	28	M16
B	M12	2-M8	28	M16
C	M16	4-M8	40x48	M16

● GPCG109-3.6/7.2/12 Sensor



Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.

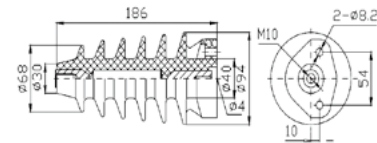


Code	Middle hole	Side hole	Hole distance	Bottom hole
A	M12		28	M16
B	M16			M16
C	M12	2-M10	55	M16

● GPCG110-12 Sensor/Insulator



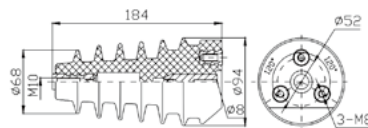
Technical data:
Rated voltage: 17.5kV
Bending breaking strength: >8kN
Partial discharge: ≤ 10pC(under 1.1Um/0.1732kV)
Material: Epoxy Resin.



● GPCG112-12 Sensor



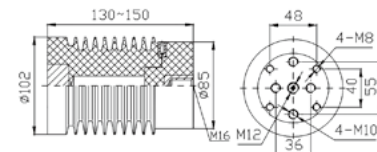
Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Partial discharge: ≤ 10pC(under 1.1Um/0.1732kV)
Material: Epoxy Resin.



● GPCG114-3.6/7.2/12 Sensor



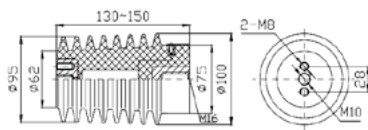
Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Partial discharge: ≤ 10pC(under 1.1Um/0.1732kV)
Material: Epoxy Resin.



● GPCG116-3.6/7.2/12 Sensor



Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.

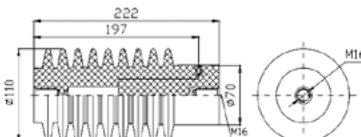


Code	Middle hole	Side hole	Hole distance	Bottom hole
A	M12	2-M8	28	M16
B	M16			M16
C	M12	2-M8	28	M16
D	M10	2-M8	28	M16

● GPCG125-12 Sensor



Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.

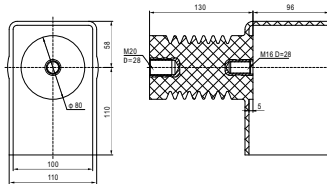


Code	Middle hole	Side hole	Hole distance	Bottom hole
A	M16	2-M8	28	M16
B	M12			M16
C	M10	2-M8	28	M16
D	M10	2-M8	28	M16
E	M16			M16

GPN12-80/226 Insulator



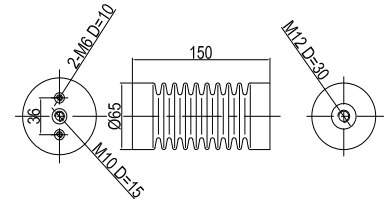
Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.



GPN12-65/150 Insulator



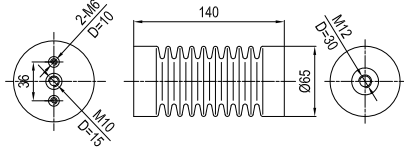
Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: Epoxy Resin.



GPN12-65/140 Insulator



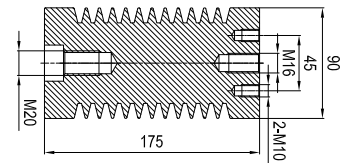
Technical data:
Rated voltage: 12kV
Bending breaking strength: >8kN
Material: BMC



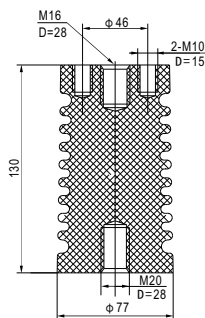
GPN12-90/175 Insulator



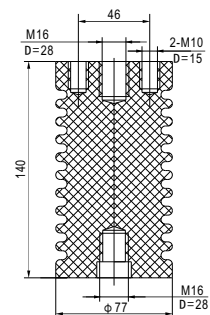
Technical data:
Rated voltage: 17.5kV
Bending breaking strength: >8kN
Material: Epoxy Resin.



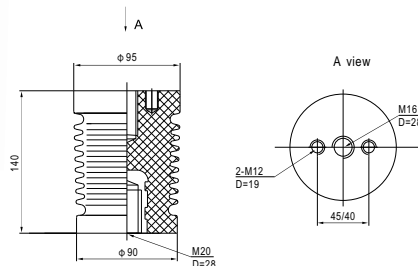
GPN12-77/130 Insulator



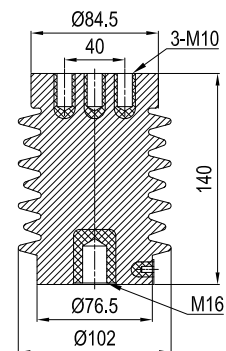
GPN12-77/140 Insulator



GPN12-95/140 Insulator



GPN12-105/140 Insulator



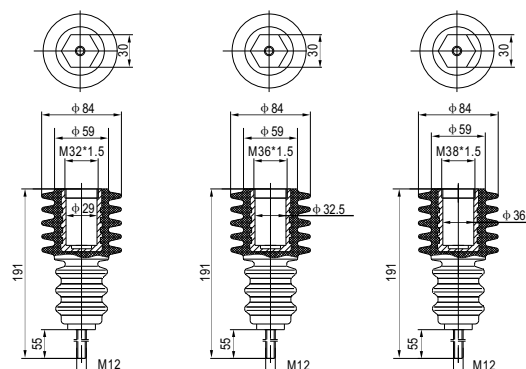
Insulation Components 12~40.5kV

- $\Phi 84 \times 191$ Adjustable tension rod
Process: BMC moulded.



Technical data:
Rated voltage: 12kV
Tension strength >25kN
Rated current: 630A~1250A
Material: PA66 Plastic injection.

Drawing no.	Rated current
5GP12.026.015	630A/20kA
5GP12.026.016	1250A/31.5kA
5GP12.026.014	3150A/40kA

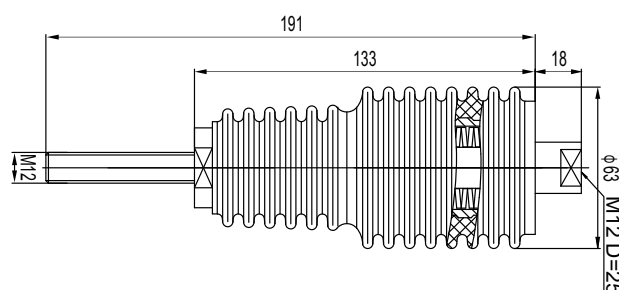


- 12-1250/31.5 Tension rod for Embedded type
Process: BMC moulded.



Technical data:
Rated voltage: 12kV
Tension strength >25kN
Rated current: 1250A~3150A
Material: PA66 Plastic injection.

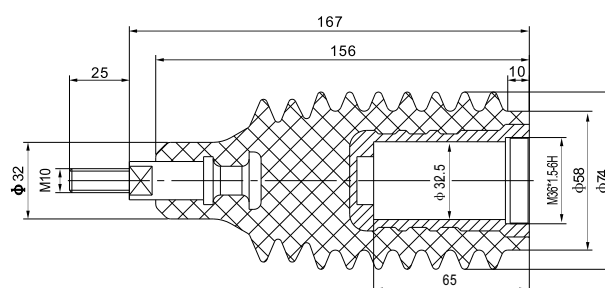
Drawing no.	Rated current
5GP12.026.116.02	12kV/31.5kA



- GPNN-12/192 Tension rod
Process: BMC moulded.



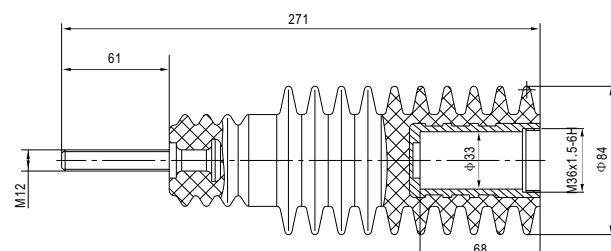
Technical Data:
Rated voltage: 12kV
Power frequency withstand voltage: 48kV/1min
Partial discharge: (under 13.2kV) $\leq 5\text{pC}$
Tension strength: >25kN



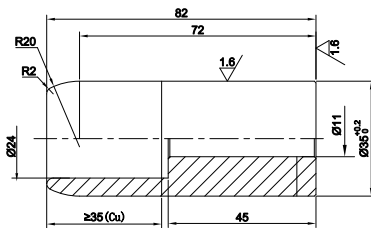
- GPNN-24/271 Tension rod
Process: BMC moulded.
Rated current: 1250A



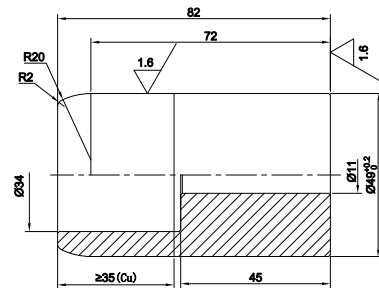
Technical data:
Rated voltage: 12kV
Tension strength >25kN
Rated current: 1250A~3150A
Material: PA66 Plastic injection.



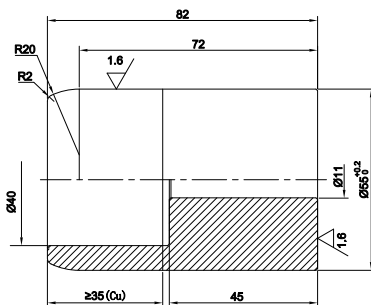
- Products code: GPB601
630A Fixed contact Material: Cu-Alu combined



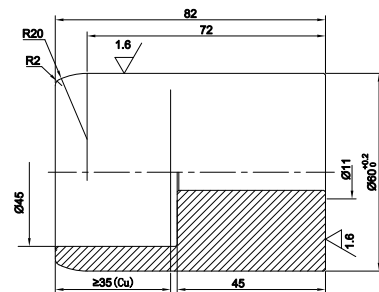
- Products code: GPB602
1250A Fixed contact Material: Cu-Alu combined



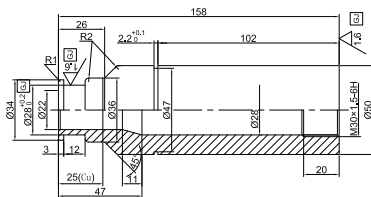
- Products code: GPB603
1600A Fixed contact Material: Cu-Alu combined



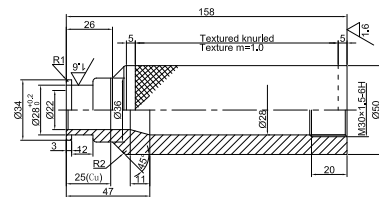
- Products code: GPB604
1600A Fixed contact Material: Cu-Alu combined



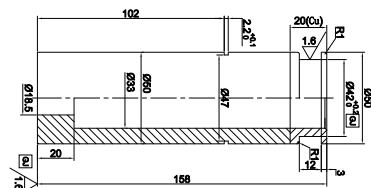
- Products code: GPB701
630A Contact arm Material: Cu-Alu combined



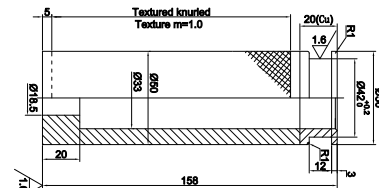
- Products code: GPB702
630A Contact arm Material: Cu-Alu combined



- Products code: GPB703
1250A Contact arm Material: Cu-Alu combined

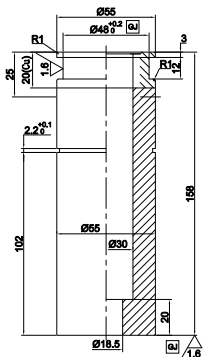


- Products code: GPB704
1250A Contact arm Material: Cu-Alu combined

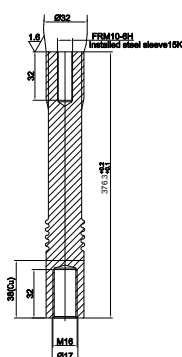


Contacts and Fittings 12~40.5kV

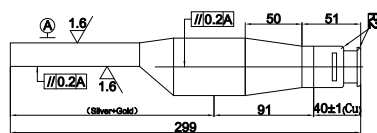
- Products code: GPB705
1600A Contact arm Material: Cu-Alu combined



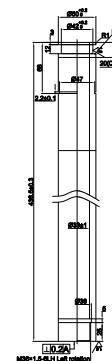
- Products code: GPB706
630A Contact arm Material: Cu-Alu combined



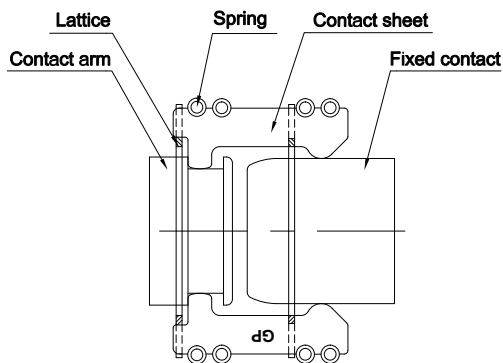
- Products code: GPB707
1250A Contact arm Material: Cu-Alu combined



- Products code: GPB708
1250A Contact arm Material: Cu-Alu combined



- Tulip contact installation diagram



Structural features

Ring spring pressure evenly
Excellent use of non-magnetic stainless steel, to avoid eddy
Thick silver plating, with strong anti-abrasion
Anti-color treatment, to avoid oxidation of the silver layer off
Fixed contact insertion depth reference dimensions: $34 \pm 2\text{mm}$

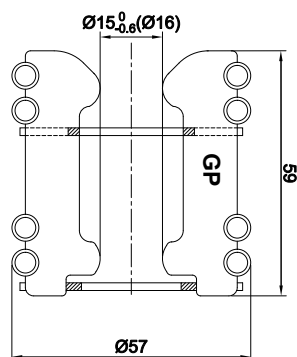
Silver plated

My company introduced the latest technology of contact surface partial plating thick silver, non-contact surface thin silver plating, which can effectively reduce product costs, plating range of 6(contact surface)+1(non-contact surface), 8 (contact surface)+1(non-contact surface), 12 (contact surface)+1 (non-contact surface), and according to customer requirement availability.

- Products code: GPA101
400A Bundled tulip contact



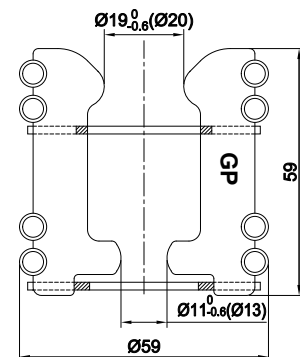
Material: Cu
12 sheets



- Products code: GPA102
400/630A Bundled tulip contact



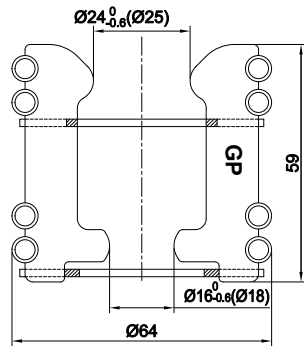
Material: Cu
12 sheets



- Products code: GPA119
630A Bundled tulip contact



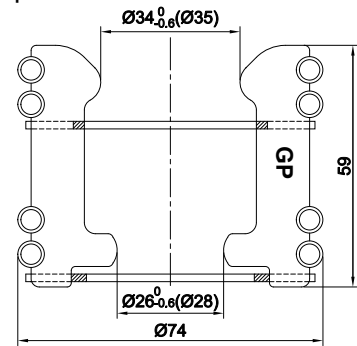
Material: Cu
12 sheets



- Products code: GPA103
630A/1000A Bundled tulip contact



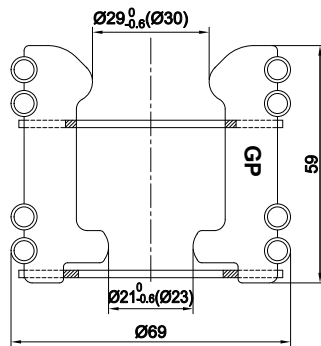
Material: Cu
12 sheets



- Products code: GPA120
630/800A Bundled tulip contact



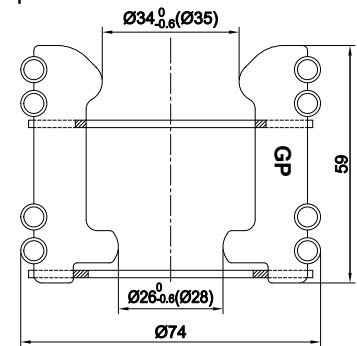
Material: Cu
18 sheets



- Products code: GPA104
630A/1000A Bundled tulip contact



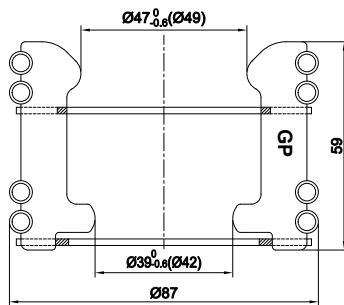
Material: Cu
18 sheets



- Products code: GPA105
630A/1000A Bundled tulip contact



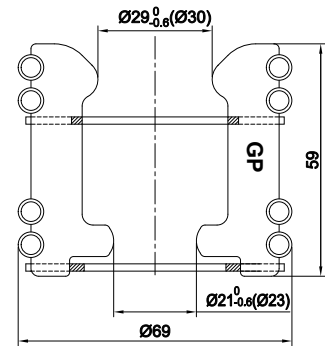
Material: Cu
18 sheets



- Products code: GPA121
1000A Bundled tulip contact



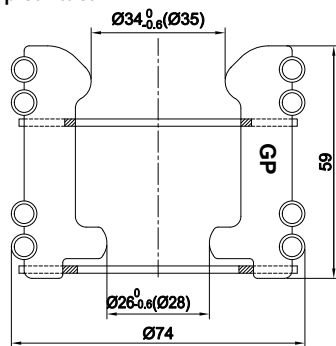
Material: Cu
24 sheets



- Products code: GPA106
630A/1250A Bundled tulip contact



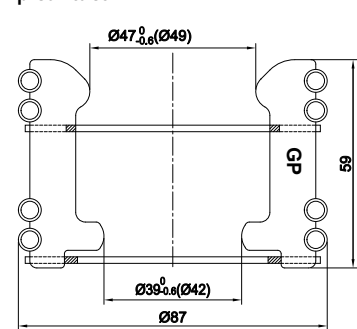
Material: Cu
24 sheets



- Products code: GPA127
630A/1250A Bundled tulip contact



Material: Cu
24 sheets

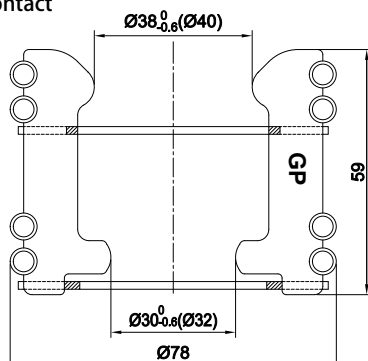


Contacts and Fittings 12~40.5kV

- Products code: GPA107
1250A Bundled tulip contact



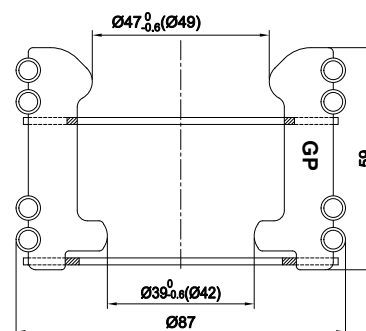
Material: Cu
30 sheets



- Products code: GPA108
1250A Bundled tulip contact



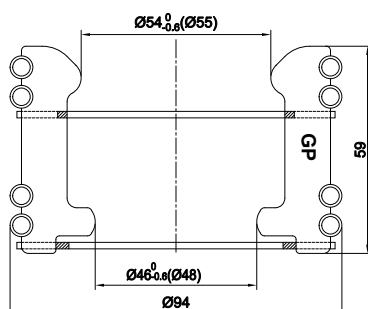
Material: Cu
30 sheets



- Products code: GPA109
1600A Bundled tulip contact



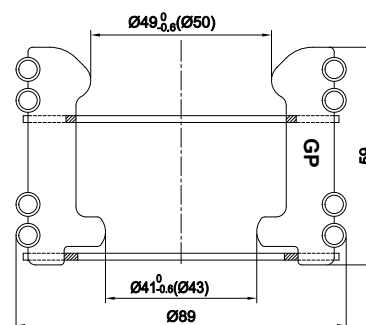
Material: Cu
36 sheets



- Products code: GPA123
1600A Bundled tulip contact



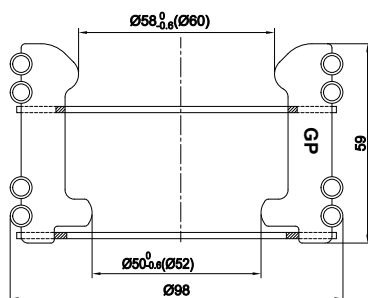
Material: Cu
40 sheets



- Products code: GPA110
1600A Bundled tulip contact



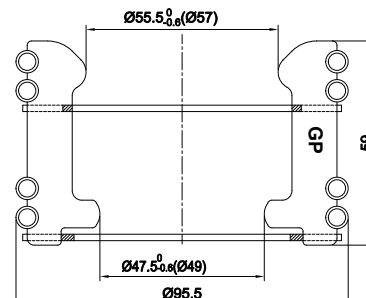
Material: Cu
40 sheets



- Products code: GPA122
2000A Bundled tulip contact



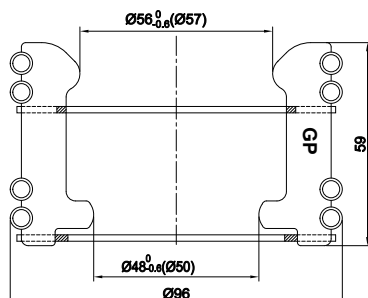
Material: Cu
40 sheets



- Products code: GPA111
2000A Bundled tulip contact



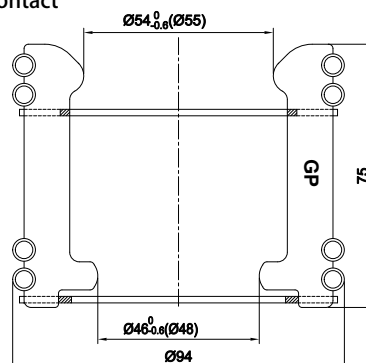
Material: Cu
42 sheets



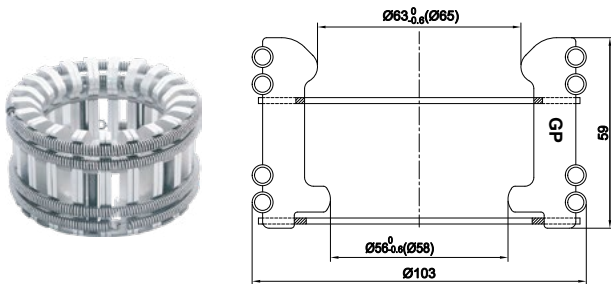
- Products code: GPA124
2000A Bundled tulip contact



Material: Cu
42 sheets

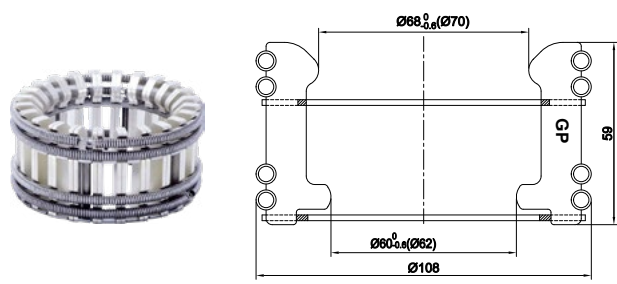


- Products code: GPA125
2000A Bundled tulip contact



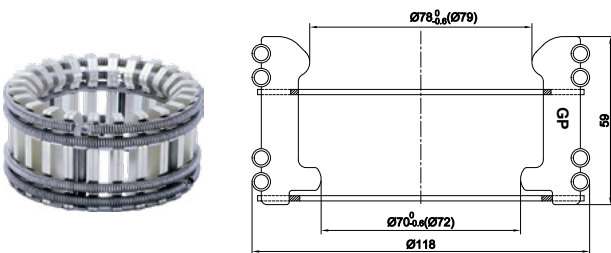
Material: Cu
42 sheets

- Products code: GPA112
2000A Bundled tulip contact



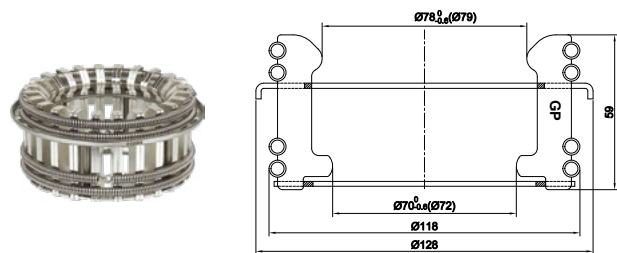
Material: Cu
48 sheets

- Products code: GPA113
2000A Bundled tulip contact



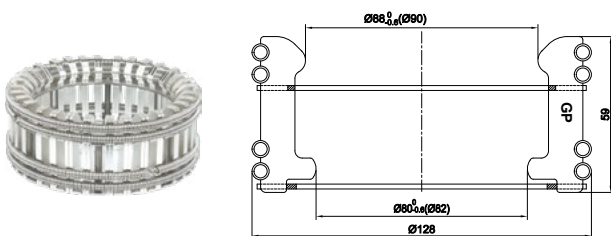
Material: Cu
48 sheets

- Products code: GPA128
2000A Bundled tulip contact



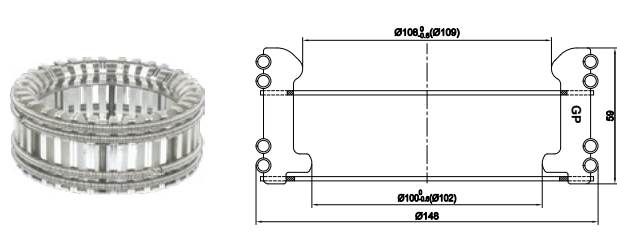
Material: Cu
48 sheets

- Products code: GPA114
2500A Bundled tulip contact



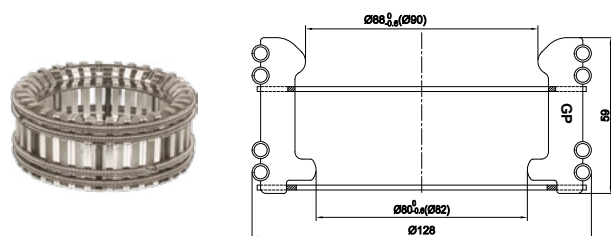
Material: Cu
60 sheets

- Products code: GPA126
2500A/3150A Bundled tulip contact



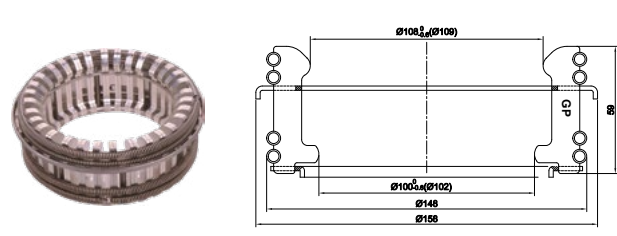
Material: Cu
60 sheets

- Products code: GPA115
2500A/3150A Bundled tulip contact



Material: Cu
64 sheets

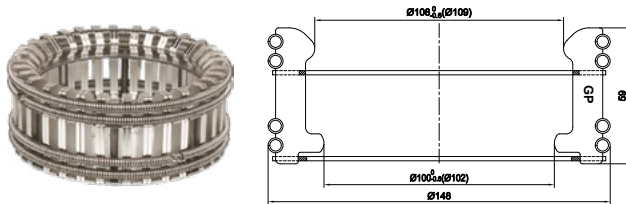
- Products code: GPA116
3150A Bundled tulip contact



Material: Cu
64 sheets

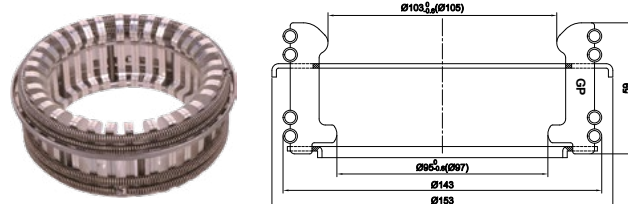
Contacts and Fittings 12~40.5kV

- Products code: GPA129
3150A Bundled tulip contact



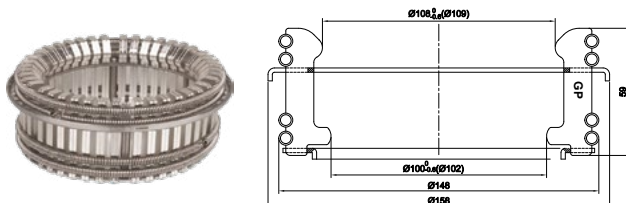
Material: Cu
64 sheets

- Products code: GPA117
3150A Bundled tulip contact



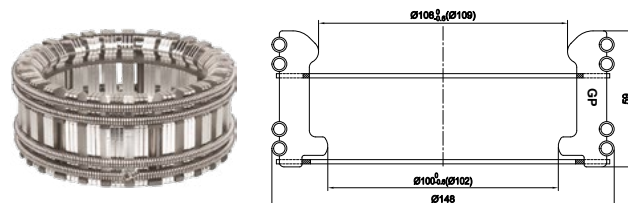
Material: Cu
72 sheets

- Products code: GPA118
4000A Bundled tulip contact



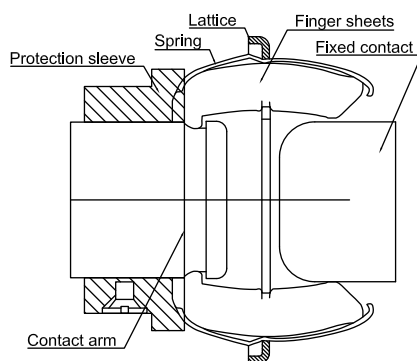
Material: Cu
84 sheets

- Products code: GPA130
4000A Bundled tulip contact



Material: Cu
84 sheets

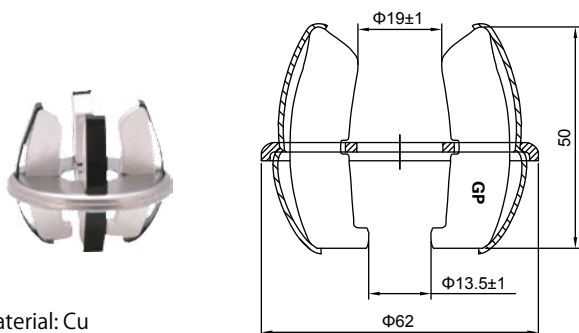
- Contact installation diagram



Structural Features of tulip contact

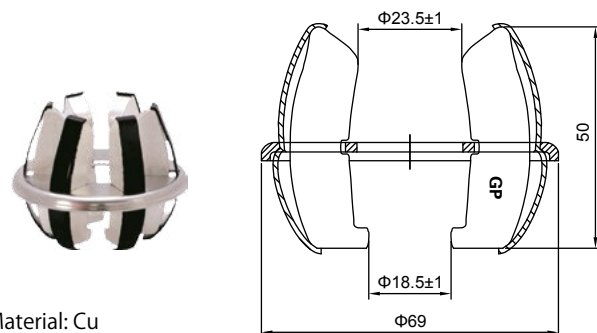
Spring piece Wing paint treatment to prevent oxidation rust;
Thick silver plating, with strong anti-abrasion;
Anti-change process, avoid silver oxide off;
Aluminum protective cover for the fixed protection against
spring plate deformation, shedding;
Fixed contact insertion depth reference dimensions: 22 ± 2 mm.

- Products code: GPA201
400A Round tulip contact



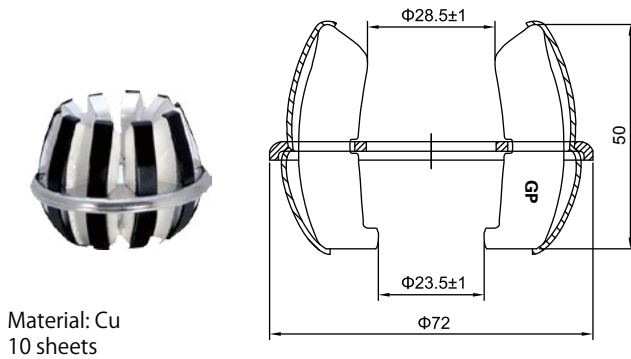
Material: Cu
4 sheets

- Products code: GPA202
630A Round tulip contact

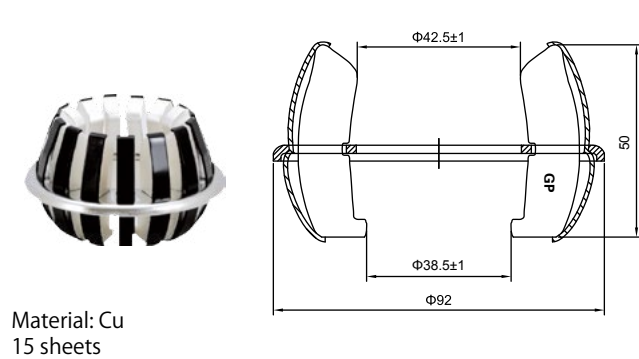


Material: Cu
6 sheets

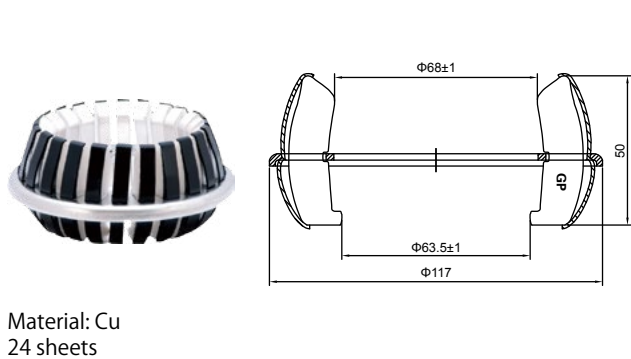
- Products code: GPA203
1000A Round tulip contact



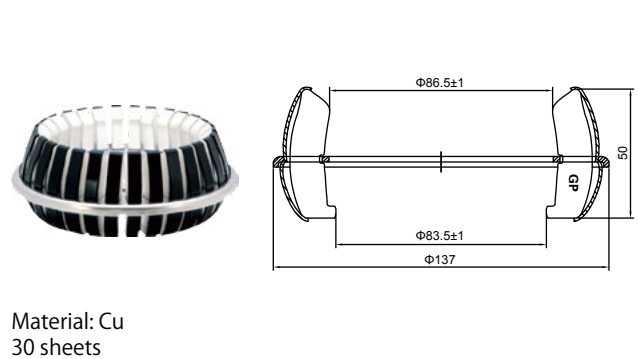
- Products code: GPA204
1250A Round tulip contact



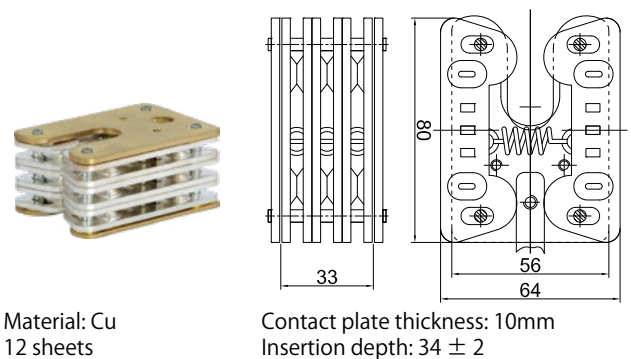
- Products code: GPA205
2500A Round tulip contact



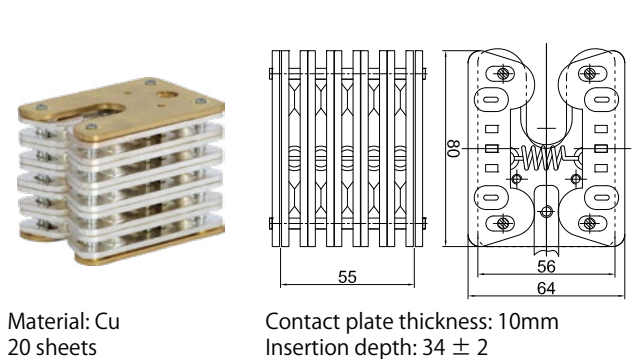
- Products code: GPA206
3150A Round tulip contact



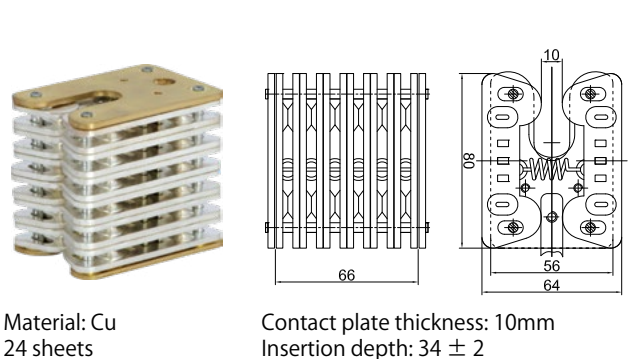
- Products code: GPA301
630A Extension spring flat contact



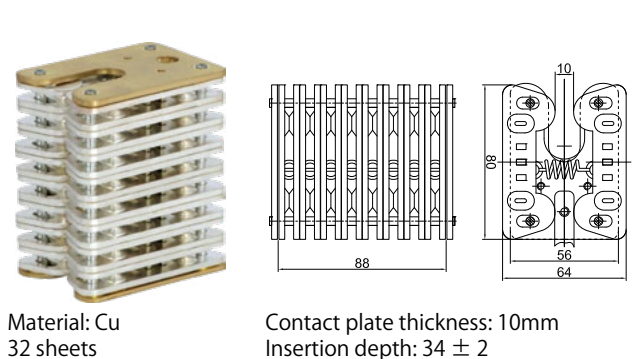
- Products code: GPA302
1000A Extension spring flat contact



- Products code: GPA303
1250A Extension spring flat contact

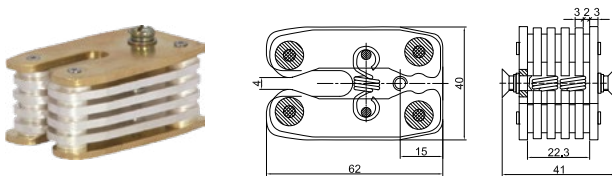


- Products code: GPA304
1600A Extension spring flat contact



Contacts and Fittings 12~40.5kV

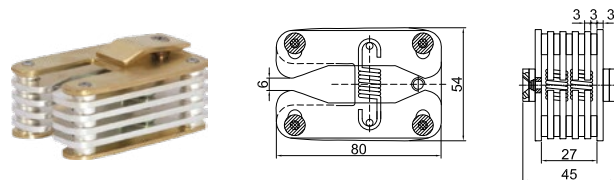
- Products code: GPA401
400A Extension spring flat contact



Material: Cu
8 sheets

Contact plate thickness: 6mm
Insertion depth: 22 ± 2

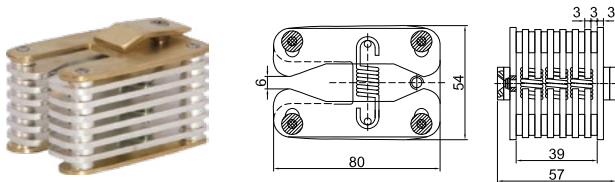
- Products code: GPA402
400A Extension spring flat contact



Material: Cu
8 sheets

Contact plate thickness: 10mm
Insertion depth: 34 ± 2

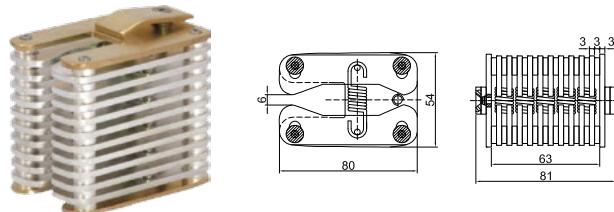
- Products code: GPA403
630A Extension spring flat contact



Material: Cu
12 sheets

Contact plate thickness: 10mm
Insertion depth: 34 ± 2

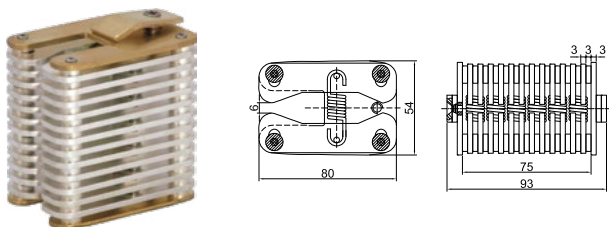
- Products code: GPA404
1000A Extension spring flat contact



Material: Cu
20 sheets

Contact plate thickness: 10mm
Insertion depth: 34 ± 2

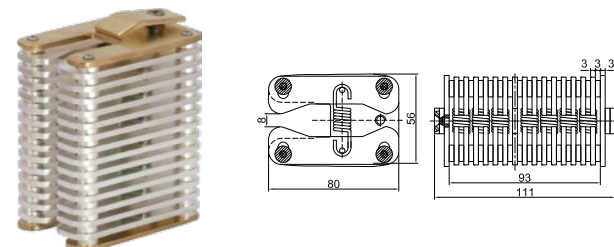
- Products code: GPA405
1250A Extension spring flat contact



Material: Cu
24 sheets

Contact plate thickness: 10mm
Insertion depth: 34 ± 2

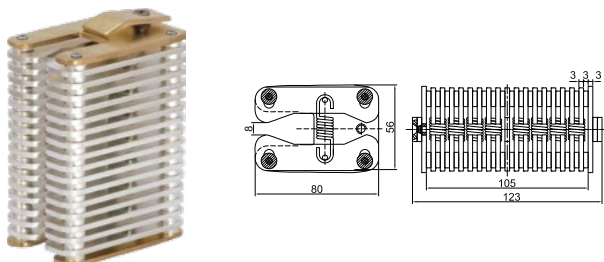
- Products code: GPA406
1600A Extension spring flat contact



Material: Cu
28 sheets

Contact plate thickness: 12mm
Insertion depth: 34 ± 2

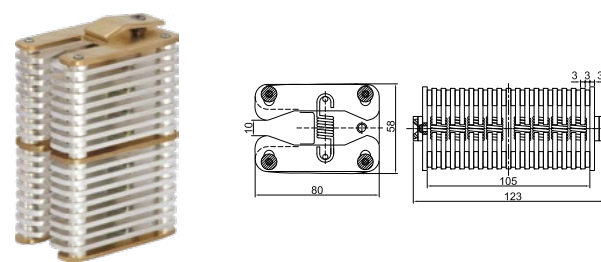
- Products code: GPA407
1600A Extension spring flat contact



Material: Cu
32 sheets

Contact plate thickness: 12mm
Insertion depth: 34 ± 2

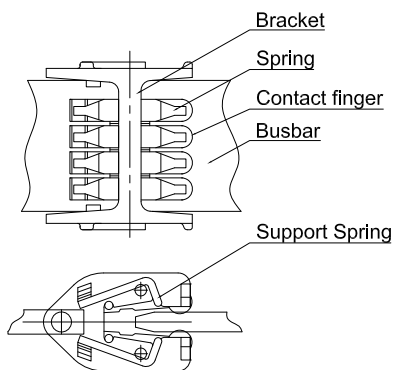
- Products code: GPA408
2000A Extension spring flat contact



Material: Cu
32 sheets

Contact plate thickness: 15mm
Insertion depth: 34 ± 2

10kV Flat contact installation diagram

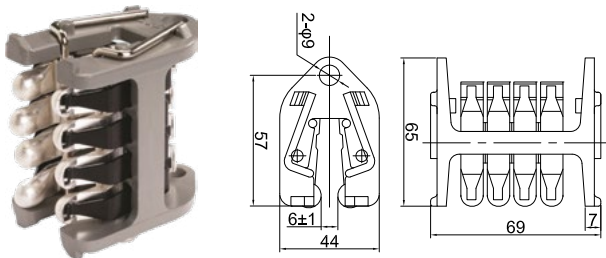


Structural features

WCD series indoor vertical rotating isolation movable contact, is isolating moving contact of a three-phase (single-phase) 50Hz indoor rotary breakers, load isolation switch, which can be used as isolation and grounding purposed for vertical rotating / removing indoor AC metal-enclosed switchgear device.

It has a total of three common specifications, rated currents of 630A, 1250A, 1600A. And can be grouped together to become 2500A by two 1250As, and two 1600As combined to 3150A.

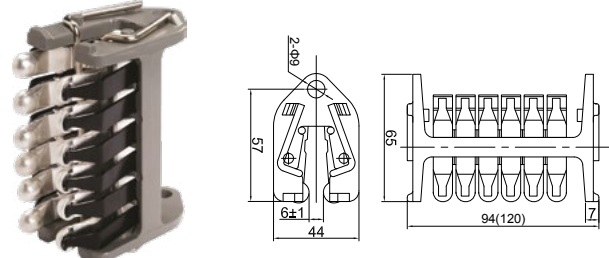
Products code: GPA509 630A Vertical rotating isolate movable contact



Material: Cu
8 sheets

Contact plate thickness: 10mm

Products code: GPA510/GPA511 1250A/1600A Vertical rotating isolate movable contact



Material: Cu
12(16) sheets

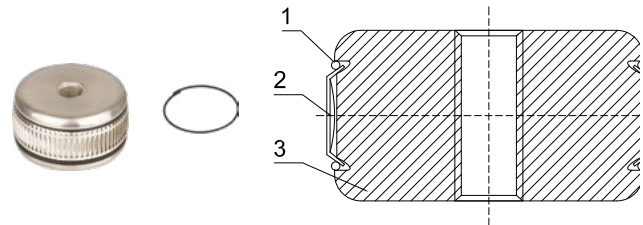
Contact plate thickness: 10mm

Cable plug assembly

Structural features

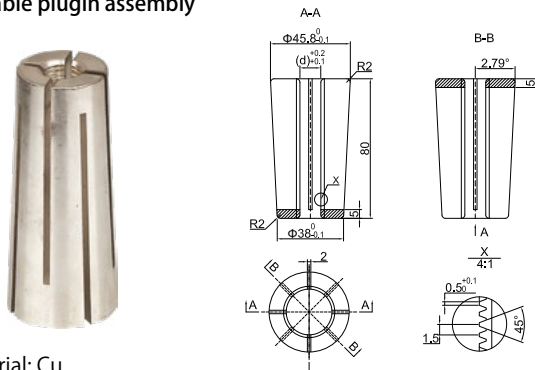
The products are mainly used in cable quick connector, the use of fingers as a connecting surface, it has the effect of more contact points and good conductivity, using widely.

Products code: GPA512 Cable plugin assembly



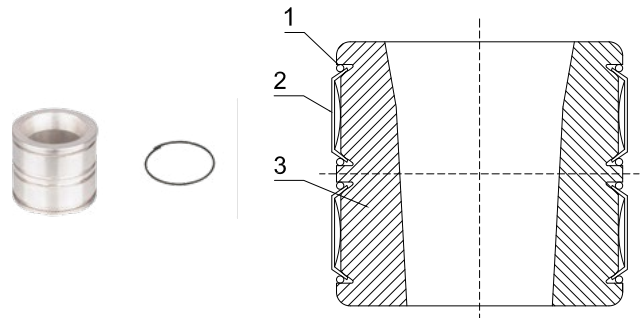
Material: Cu
Contact finger material: beryllium bronze

Products code: GPA513 Cable plugin assembly



Material: Cu

Products code: GPA514 Cable plugin assembly

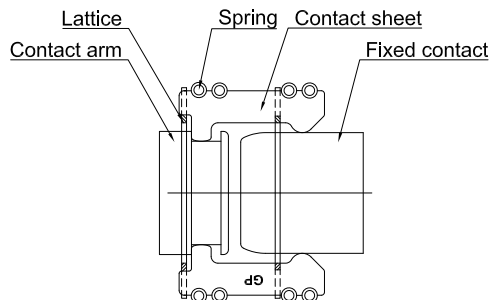


Material: Cu

Contacts and Fittings 12~40.5kV

Fixed contacts

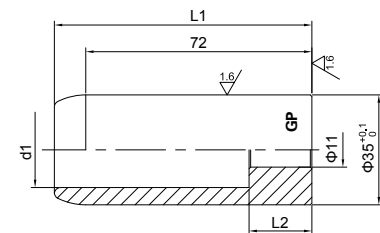
Installation diagram of fixed contacts
All difference dimensions can be customized as requirements.



Products code: GPB113, GPB101, 630A Fixed Contact



Material: Cu

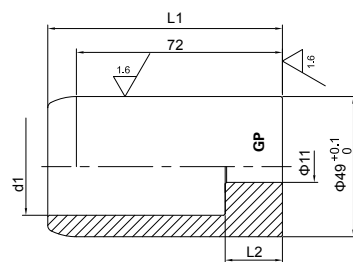


Product code	L1	L2	d1
GPB113	82	20	24
GPB101	82	50	24

Products code: GPB114, GPB103, 1250A Fixed Contact



Material: Cu

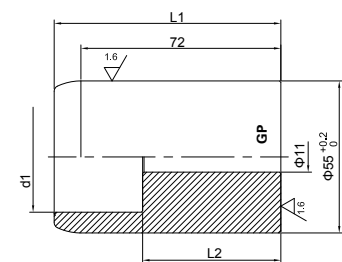


Product code	L1	L2	d1
GPB114	82	20	36
GPB103	82	50	34

Products code: GPB115, GPB104, 1600A Fixed Contact



Material: Cu

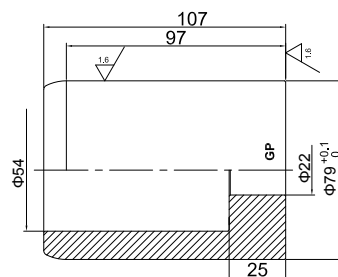


Product code	L1	L2	d1
GPB104	82	20	40
GPB115	82	50	42

Products code: GPB105 2000A Fixed contact



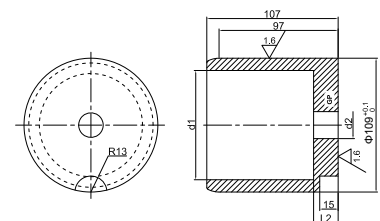
Material: Cu



Products code: GPB116, GPB1237 3150A Fixed contact



Material: Cu

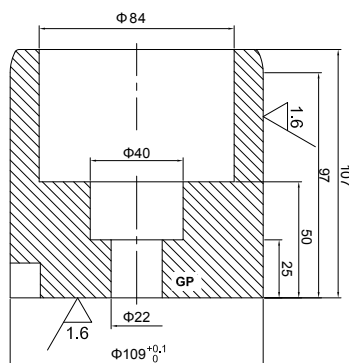


Product code	L2	d1	d2
GPB116	20	89	22
GPB1237	25	84	20

Products code: GPB108 3150A Fixed contact



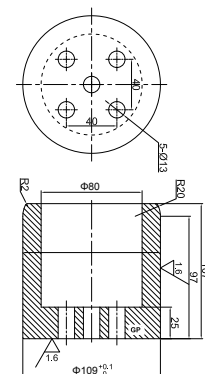
Material: Cu



Products code: GPB109 4000A Fixed contact



Material: Cu



● Contacts arms (For PT, Busbar Truck, V.C.B., etc)

Contact arms specification

The company produces vulcanized contact arm, can replace the contact arm sleeve, which is simplify the structure of the product, and can miniaturization the switchgear. Sulfide layer thickness 2-4mm, every millimeter can bear frequency withstand voltage 20kV.

Contact arm ordering notice

Rated current

Description supporting contact form

Contact arm forms and mounting hole size

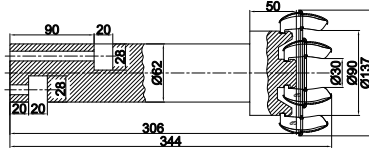
Whether to adopt the vulcanization process

The company can according to customer requirements of various types of contact arms.

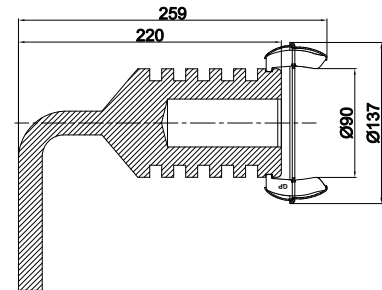
● Bundled tulip contact assembly to contact arm



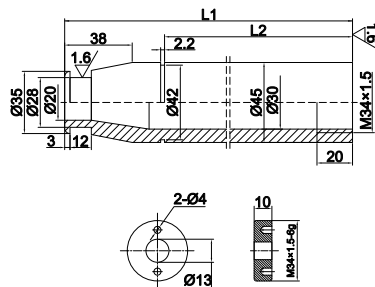
● Double round tulip contact assembly to contact arm



● Round tulip contact assembly to contact arm



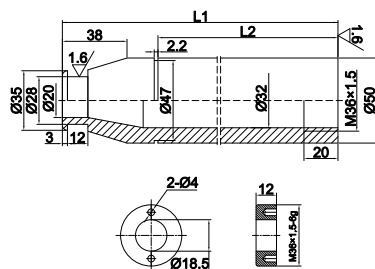
● Products code: GPB203~GPB207 630A Contact arm



Products code	L1	L2
GPB203	158	102
GPB204	188	102
GPB205	256	No slot
GPB206	315	No slot
GPB207	321	No slot

Material: Cu or Cu-Alu

● Products code: GPB212~GPB216 630A Contact arm

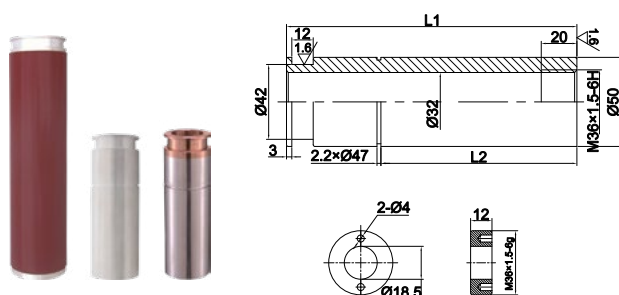


Products code	L1	L2
GPB212	158	102
GPB213	163	102
GPB214	200	102
GPB215	315	No slot
GPB216	501	No slot

Material: Cu or Cu-Alu

Contacts and Fittings 12~40.5kV

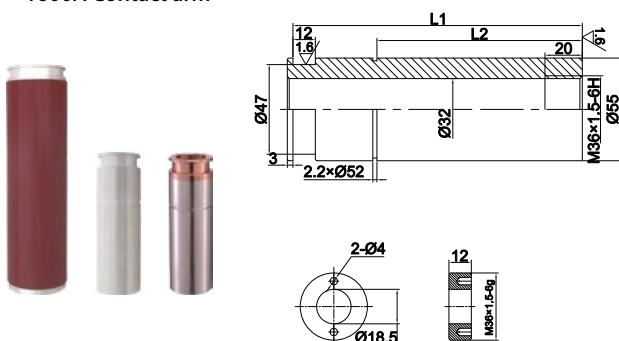
- Products code: GPB217~GPB221
1250A Contact arm



Product code	L1	L2
GPB217	158	102
GPB218	200	102
GPB219	315	No slot
GPB220	436.5	GPVN-40.5
GPB221	511	No slot

Material: Cu or Cu-Alu

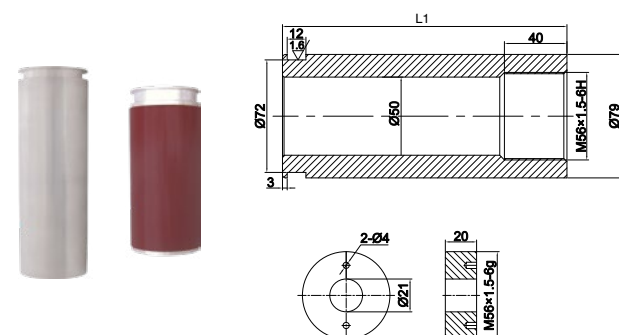
- Products code: GPB222~GPB225
1600A Contact arm



Products code	L1	L2
GPB222	158	102
GPB223	295	No slot
GPB224	315	No slot
GPB225	436.5	GPVN-40.5

Material: Cu or Cu-Alu

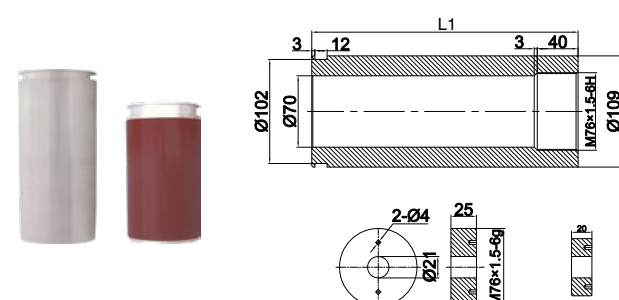
- Products code: GPB226~GPB229
2000A Contact arm



Products code	L1
GPB226	182
GPB227	261
GPB228	283
GPB229	436.5 GPVN-40.5

Material: Cu

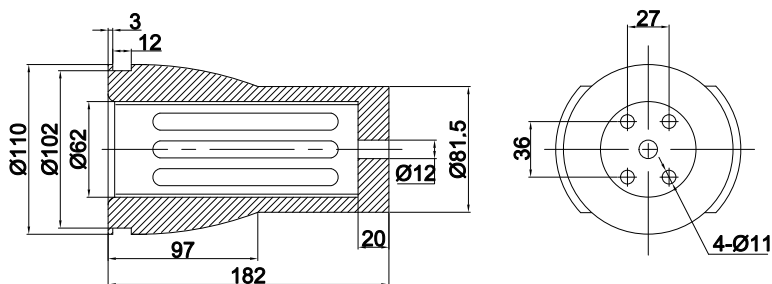
- Products code: GPB230~GPB233
3150A Contact arm



Products code	L1
GPB230	236
GPB231	255
GPB232	261
GPB233	281

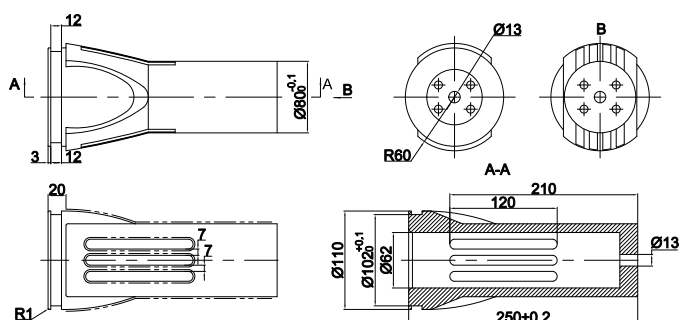
Material: Cu

- Products code: GPB259
GPVN 3150A Contact arm



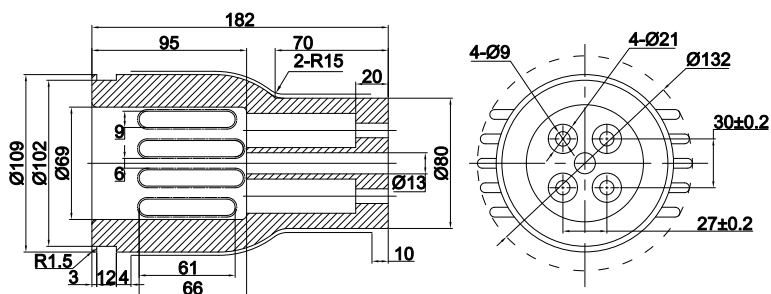
Material: Cu

- Products code: GPB265
GPVN 3150A Contact arm



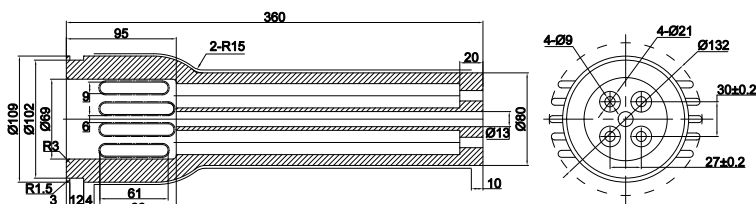
Material: Cu (Suit for large current busbar truck)

- Products code: GPB260
GPVN 4000A Contact arm



Material: Cu

- Products code: GPB266
GPVN 4000A Contact arm



Material: Cu