

## Contact us

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# Green Power

LIGHTS UP THE WAY  
TO THE **FUTURE**

- Low Voltage Switchgear  
GPS1 For Siemens Breakers  
and Components



- *Environment Friendly*
- *Save Energy and Resource*
- *One-Stop Solutions Concept*
- *Customer Value Increasing*





## **About Us**

GreenPower 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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## 1. General Introduction

GPS1 type components is for Siemens breakers of low-voltage power distribution equipment, which has circuit breaker technology, fixed-mount technology, withdrawable design technology and plug-in technology. It has safe, reliable, flexible, widely used in the construction industry and industrial technology fields.

The product has the following characteristics:

- Low voltage distribution equipment type-tested (TTA);
- Horizontal bus unified arranged in the top of the switchgear;
- 3-Pole and 4-pole busbar system rated current up to 7400A;
- Rated peak withstand current 1pk can reach 375kA;
- Big depth dimensions of the device compartment, suitable for a variety of installation;
- Device compartment can be divided into different units as the modulus structure;
- The switchgear can be installed on one side, also can be back to back installation;
- Incoming line can be from the top or from the bottom;
- Outgoing cables can be connected from the front or the rear of the cabinet.



GPS1 low-voltage switchgear components containing a total of four designs: Design breaker, fixed-mounted design, plug-in design and withdrawable design.

Breaker design for practice, the current level of bus can be divided into 3200A, 4000A, 7400A, the cable wiring compartment in the side or rear, the circuit breaker can be transferred from the connection position, test position to isolated position. Only breaker in isolated position, the door can be open, this is ensure maximum personal safety.

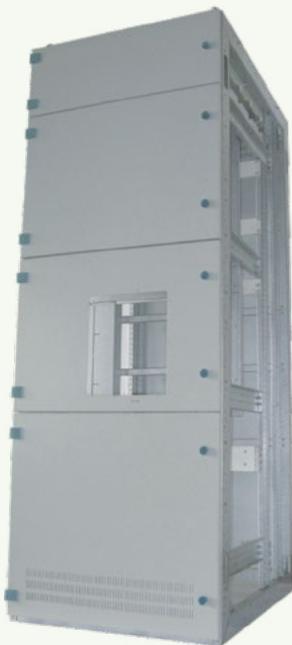
Fixed-mount cabinet modular structure, which makes the feeder circuits in the cabinet can be any combination. Cabinet installed fixed or insert type molded case circuit breakers(MCCB), fuse type disconnectors, or strip-type disconnectors with fuse, its distribution busbar maximum rated current is 1400A; The protection class of the distribution busbar of the strip fuse cabinet is IP20B, using strips 3NJ6 fuse switch, the device can be replaced

without power down the entire cabinet. Power factor compensation cabinet has a choke and non-choke type.

Each drawer withdrawable design has connected position, test position and an isolated position. Drawers up than 125A has a mechanism that can overcome drawer advancing the process of friction. Drawer maximum rated current of 630A, modulus drawer is 100,150,200,300,400,500,600,700mm.

Plug-in type is designed to have a fixed device installed on the slats, plug into the main circuit and auxiliary circuit plug with the slat, main circuit cable outlet to take fixed wiring directly connected to the outlet devices. This design is more economical price.

In order to adapt engineering needs of according to BS standard design, all designed bus system were carried out 3S rated short time withstand current test.



Incomer cabinet  
800\*1000\*2200



Feeder cabinet  
1000\*1000\*2200



MCC fixed separation cabinet  
800\*1000\*2200

## 2. Frame Structure and Enclosure

Load-bearing parts of the skeleton switch cabinet, which is made of steel profiles connected to each other, GPS1 skeleton structure dimensionally accurate and stable. There are two kinds of structure, namely screw connection or welded.

- Profile has 25mm hole distance modulus to meet the needs of various extensions
- Rotating handle spring can reliably prevent inadvertent or accidental leaving the door bounce
- Roof equipped with pressure relief devices

### Enclosure

#### Roof plate

Roof plate is screwed onto the frame, the roof can be lifted without dismantling switchgear, IPX1 or IPX2 type protection class roof will delivery as accessories.

#### Bottom plate

In order to sealing the SPS1 from the bottom, can be screwed to the framing plurality of steel plates, you can punch holes on the floor for threading the cables. For a higher level of protection requirements, After holing the bottom plate at the site could use regular sealing stuffing for blocking.

#### Rear plate and Side wall

GPS1 switchgear back and sides is made of not chamfered flat steel plate and screws attached to the support structure.

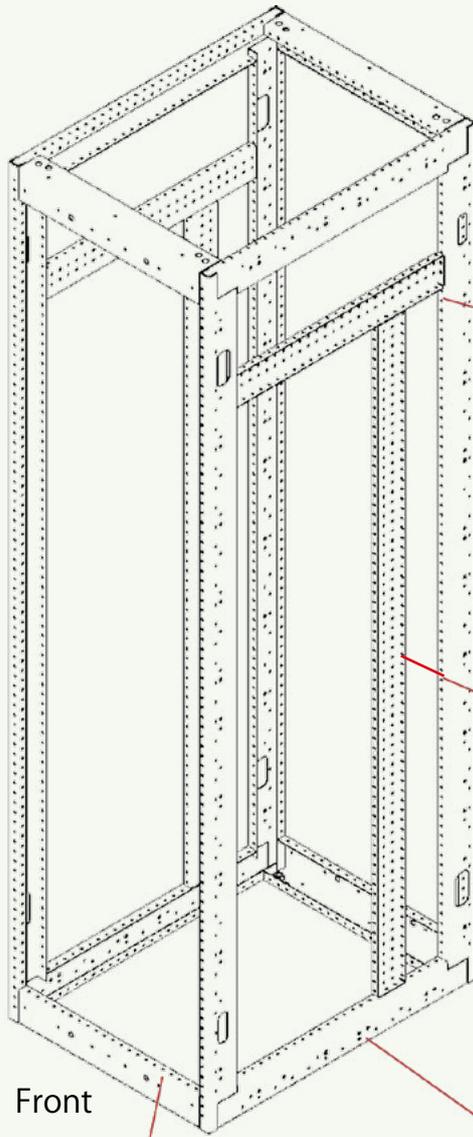
#### Partition plate

According to internal separation of different forms, for GPS1 switchgear cabinet installation in a row, partition plate is adopted for isolation between the form of the division. Spacer is mounted on the outside of the left frame.





### 3. Skeleton Details



Front



8PT6709.01 (Alu-zinc sheet)  
2196.5\*85 Upright column



8PT649.01 (Alu-zinc sheet)  
629.5\*85 Depth beam L=630

8PT648.01 (Alu-zinc sheet)  
429.5\*85 Depth beam L=430



8PT651.01 (Alu-zinc sheet)  
1729.5\*85 Supporting column L=1730

8PT3538.01 (Alu-zinc sheet)  
2029.5\*85 Supporting column L=2030

8PT5633.00 (Alu-zinc sheet)  
214.5\*85 Supporting column L=215

8PT748.02 (Alu-zinc sheet)  
1813\*85 Supporting column L=1900



8PT6716.01 (Alu-zinc sheet)  
991\*85 Width beam



8PT6721.00 (Alu-zinc sheet)  
996.5\*85 Depth beam

8PT6712.01 (Alu-zinc sheet) 391\*85

8PT6713.01 (Alu-zinc sheet) 591\*85

8PT6714.01 (Alu-zinc sheet) 791\*85

8PT6715.01 (Alu-zinc sheet) 691\*85

8PT6717.01 (Alu-zinc sheet) 1191\*85

Some profile donot listed here, please contact Greenpower to get more products.

8PT6718.00 (Alu-zinc sheet) 396.5\*85

8PT6719.01 (Alu-zinc sheet) 596.5\*85

8PT6720.01 (Alu-zinc sheet) 796.5\*85

8PT6722.01 (Alu-zinc sheet) 1196.5\*85

## 4. Fixed type Overview and Features

OFF1 uses fixed mounting technology feeder cabinet, can be installed molded case circuit breakers (MCCB), fuse switch disconnectors.

OFF1 fixed outgoing circuits installed by the composition of the modular device compartment and located in the rear of the cable compartment.

Switchgear front is door or plate.

OFF2 the distribution cabinet of feeding outgoing circuits uses fixed mount technology can be installed molded case circuit breaker (MCCB), fuse switch disconnectors.

OFF2 electrical switch of cable feeder circuits is mounted on the mounting plate and connected to vertical distribution bus on the incoming side.

Switchgear front has separate compartment doors, cable connection compartments are in the front as well.

OFF3 feeding-out fixed installation cabinet is composed by a modular device compartment and a cable compartment located in the rear of cabinet.

OFF3 cable feeder circuits electrical switch is mounted on the mounting plate and connected to the vertical distribution bus of the incoming side.

Switchgear front has separate compartment doors.

OFF 4 outgoing circuits fixed installation consists of modular device compartment and a cable compartment located in



the front part of the cabinet.

OFF 4 cable feeder circuits electrical switch is mounted on the mounting plate and connected to the vertical distribution bus on the incoming side.

Switchgear front has separate compartment doors.

## 5. Draw-out Type Overview

Equipped with an electric motor and feeder circuits of withdrawable switchgear in safe and flexible premise of providing convenient operating, through withdrawable design, enabling quick and easy replacement and adjustment, which means that during the operation, can be Added module compartment and replace or convert.

Features

Main circuit with the movable barrier (breaking in the incoming side and the outlet side) and auxiliary circuits (up to 40-pin + 1 bus connector) of the contact system. Misuse protection mechanism prevents movement in case of contact with the load. In the test position, relative performance of the withdrawable units can be detected in the state of mistakenly load (cold status) status. In this position, we need to feeder the control voltage through the auxiliary contacts. The protection class on the position of test and isolated position is up to IP30.



## 6. Cabinet Drawer



1 unit drawer



1.5 unit drawer



2 unit drawer



3 unit drawer



4 unit drawer



5 unit drawer

Modulus Height	Rated Current
<b>3/4 P No-fuse circuits</b>	
100mm	25A
150mm	50A
150mm	100A
200mm	225A
300mm	225A
300mm	400A
600mm	630A
200mm	160A
200mm	160A
300mm	225A
300mm	400A
600mm	630A
<b>3P Fuse circuits</b>	
100mm	25A
150mm	63A
150mm	125A
200mm	160A
300mm	225A
300mm	400A
400mm	630A
<b>4P Fuse circuits</b>	
150mm	63A
150mm	125A
200mm	160A
300mm	225A
300mm	400A
500mm	630A
<b>3P No-fuse circuits</b>	
150mm	63A
150mm	100A
150mm	160A
200mm	225A
200mm	225A
300mm	400A
300mm	630A
<b>4P No-Fuse Circuits</b>	
150mm	63A
150mm	100A
200mm	160A
300mm	225A
300mm	400A
500mm	630A

Note: 100mm is 1 Unit

## 7. Side Walls of Drawers



1 unit drawer



1.5 unit drawer

### Side-plate of the drawer

Unit drawer has no side-plate, only the bottom plate, higher than 1.5 unit drawer in addition to arrange drawer bottom also equipped with highly unequal side-plates. The following diagram are the left side-plate.



8PT7860.05  
Polycarbonates(PC)  
sheet



8PT20564.02  
Bottom plate



1.5 unit drawer

8PT8123.03  
Left side-plate 150

8PT8122.05  
Right side-plate 150



2 unit drawer

8PT5638.06  
Left side-plate 200

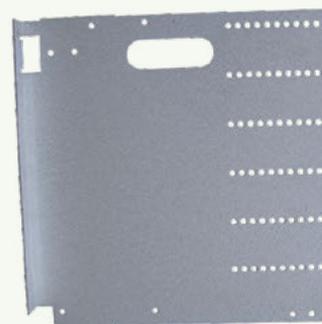
8PT5638.06  
Right side-plate 200



3 unit drawer

8PT5398.05  
Left side-plate 300

8PT5399.07  
Right side-plate 300



4 unit drawer

8PT5700.05  
Left side-plate 400

8PT5699.08  
Right side-plate 400

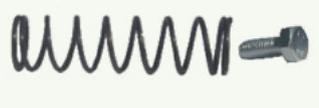
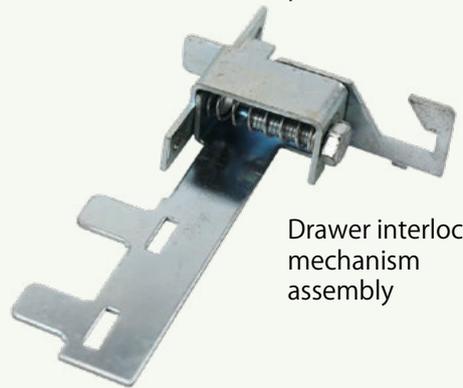
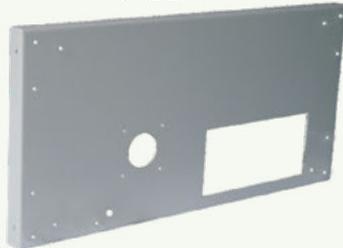


5 unit drawer

8PT5798.04  
Left side-plate 500

8PT5797.06  
Right side-plate 500

## 8. Drawer Doors

 <p>1 unit</p>	<p>8PT8045.01 Drawer door plate 100mm 162.5/39 8uc61/62</p>	 <p>8PT8092.04 Drawer interlock plate 2</p>	 <p>8PT7857.01 Pressure Spring VD-153</p>
 <p>1.5 unit</p>	<p>8PT5537.02 Drawer door plate 150mm 162.5/80 8uc61/62</p>	 <p>8PT5662 Rubber block</p>	 <p>8PT20567.03 Drawer interlock plate 1</p>
 <p>2 unit</p>	<p>8PT7668.00 Drawer door plate 200mm 162.5/80 8uc61/62</p>	 <p>8PT20567.03 Drawer interlock mechanism assembly</p>	
 <p>3 unit</p>	<p>8PT5757.02 Drawer door plate 300mm 202.5/80 8uc61/62</p>	 <p>3SB3000-20 Button</p>	
 <p>4 unit</p>	<p>8PT35446.00 Drawer door plate 400mm 8uc61/62</p>	 <p>8PT5444.02 U-handle 100mm</p> <p>8PT5387.02 U-handle 60mm</p>	
 <p>5 unit</p>	<p>8PT7665.00 Drawer door plate 500mm 202.5/140 8uc61/62 spindle</p>	 <p>8GP.253.020(310051) U-handle 100mm</p> <p>8GP.253.021(310052) U-handle 100mm</p>	

## 9. Switch Installation Plate



8PT6121.11  
Installation plate 150



8PT6548  
Installation plate 150



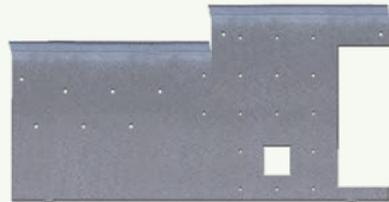
8PT9283.01  
Installation plate 200



8PT9284.01  
Installation plate 200



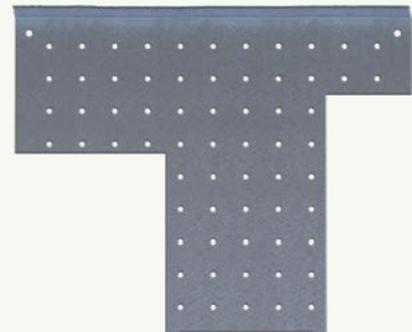
8PT8305.07  
Installation plate 300



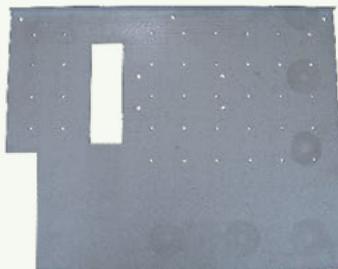
8PT8310.06  
Installation plate 300



8PT35516.01  
Installation plate VT 400  
H 300



8PT35828.00  
Installation plate VT 400  
3P H 300



8PT5870.05  
Installation plate  
500



8PT5799.08  
Installation plate 500



8PT7093.01  
Installation plate 100

## 10. Drawer Fittings



8PT12581  
Indicator plate



8PT6789.07  
Drawer mechanism  
left bracket



8PT6887.07  
Drawer mechanism  
right bracket



8PT20568.03  
Mechanism interlock  
plate



8PT12660  
Position label



Secondary rotating-in  
mechanism



8PT12578  
Front rotating sleeve



8PT12580  
Guiding sleeve



8PT7857.01  
Spring VD-153



8PT12579  
Rear rotating sleeve



8PT12582.04  
Secondary installation bracket  
(movable)

8PT6017.01  
Adaptor bracket



8PT11049  
Micro switch

## 11. Secondary Plugin

8PT7869  
Secondary socket



310268



310270



310267



310269



8PT7868  
Secondary plug



310271



310266



310272



310274



8PT17897.1  
pins socket for  
secondary plugin



8PT17902.1  
Pins plug for  
secondary plugin

## 12. Drawer Parts (1)



8PT5397.00  
Supporting plate



8PT8151.02  
Symmetrical part 6



8PT8152.01  
Symmetrical part 8



8PT8153.01  
Symmetrical part 10



8PT8154.01  
Symmetrical part 12



310295 Hinge  
Assembly



8PT6698.01  
Hinge



8PT6699.00  
Hinge



8PT5998.09 Panel w/o plug  
8PT11883.03 Panel 150 w/o plug  
8PT11882.03 Panel 100 w/o plug



8PT5475.02  
Indicating supporting  
angle



8PT5544.04  
Indicating supporting  
angle



8PT5958.01  
adaptor 3RV



8PT7169.03  
Latch bolt 4kt8



8PT35438.00  
Latch bolt 4kt8  
VT400



8PT7257.04  
Latch Bolt 4kt12 3KL61



8PT5955.04  
Latch Bolt 4kt12 3VF6



8PT9915.02  
Latch Bolt 4kt12  
VL400

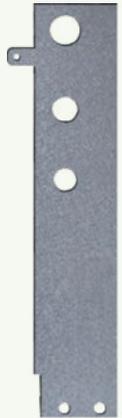


8PT5953.06  
Latch 4kt8



8PT5944.01  
Latch

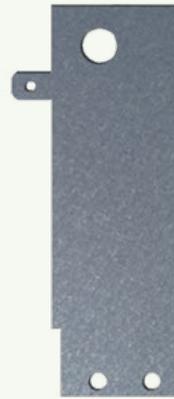
12. Drawer Parts (2)



8PT5552.04  
Supporting



8PT9913.00  
Supporting 300 4kt12  
VL400



8PT35440.00  
Supporting 4kt8 VT400



8PT5954.03  
Supporting 600 4kt12



8PT5640.03  
Support



8PT5951.01  
Support



8PT5950.02  
Support



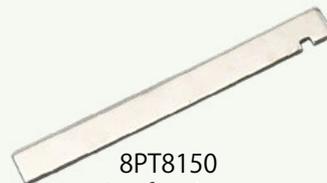
8PT6539.05  
Support



8PT5623.03  
Guide bracket



8PT6540.04



8PT8150  
Leaf spring



8PT5744  
Installing plate

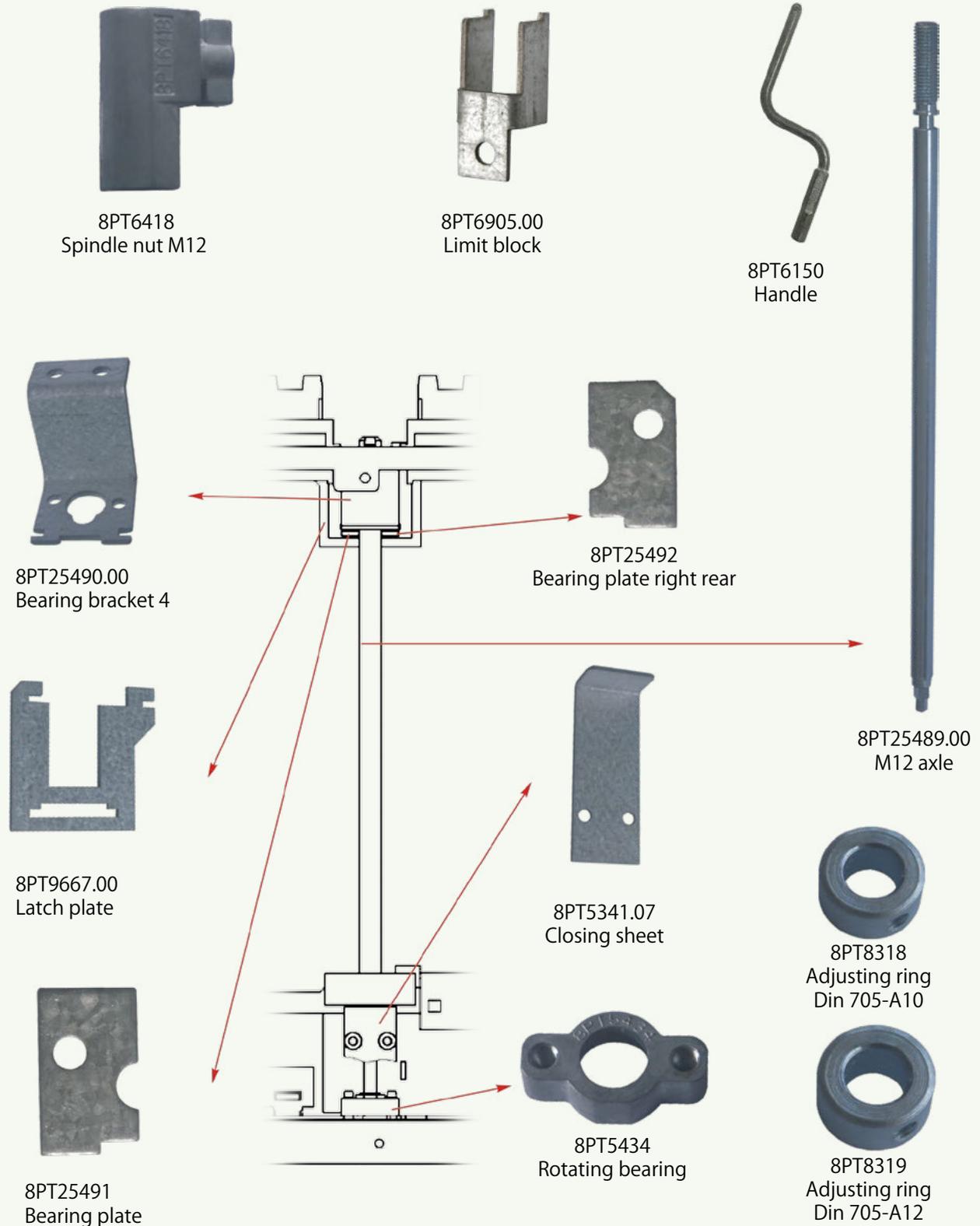
8PT2718.05  
Drawer rear wall bracket



8PT6896.02  
Reinforcement plate



## 12. Drawer Parts (3)



12. Drawer Parts (4)



8PT5323.17  
Layer partition plate



8PT5380.01  
Basic cover plate



8PT546.00  
Bracket tray



8PT542.00  
Main busbar support



8PT22743.01  
Outgoing plate



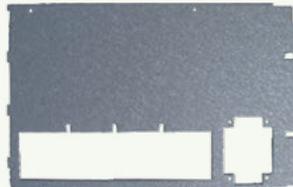
8PT22540.01  
Side plate



8PT22736.01  
Outgoing frame



8PT4076  
Cover plate rear part  
(150)



8PT4592.04  
Cover plate rear part  
(200)



8PT4594.02  
Cover plate rear part



8PT955.01  
Reinforced hook  
(600 width)



8PT957.02  
Strengthened rings (1000 width)



8PT956.02  
Reinforced hook  
(800 width)



8PT958.03  
Strengthened rings (1200 width)

### 13. Cabinet Lock and Hinge

8PT538  
Door lock



Metal key  
310139



Plastic key  
8PT.887.001



Lock supporting plate  
8PT539.00



Supporting  
8PT13254.01



Lock cylinder  
8GP.870.511



Spring  
8GP.282.531



Lock shell  
8GP.885.501



Nuts  
8GP.940.506

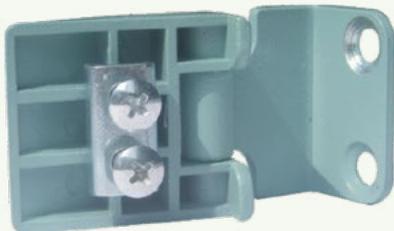


Lock plate  
8GP.870.510



Hexagon flange bolts  
GB/T16674.1  
M5\*11.5

8PT535  
Hinge



Hinge sheet 1  
8GP.256.500



Hinge sheet 2  
8GP.256.501

Screw  
GB823  
M5\*12



Axis  
8GP.206.530



Pressure plate  
8GP.156.504

## 14. Primary Plugin



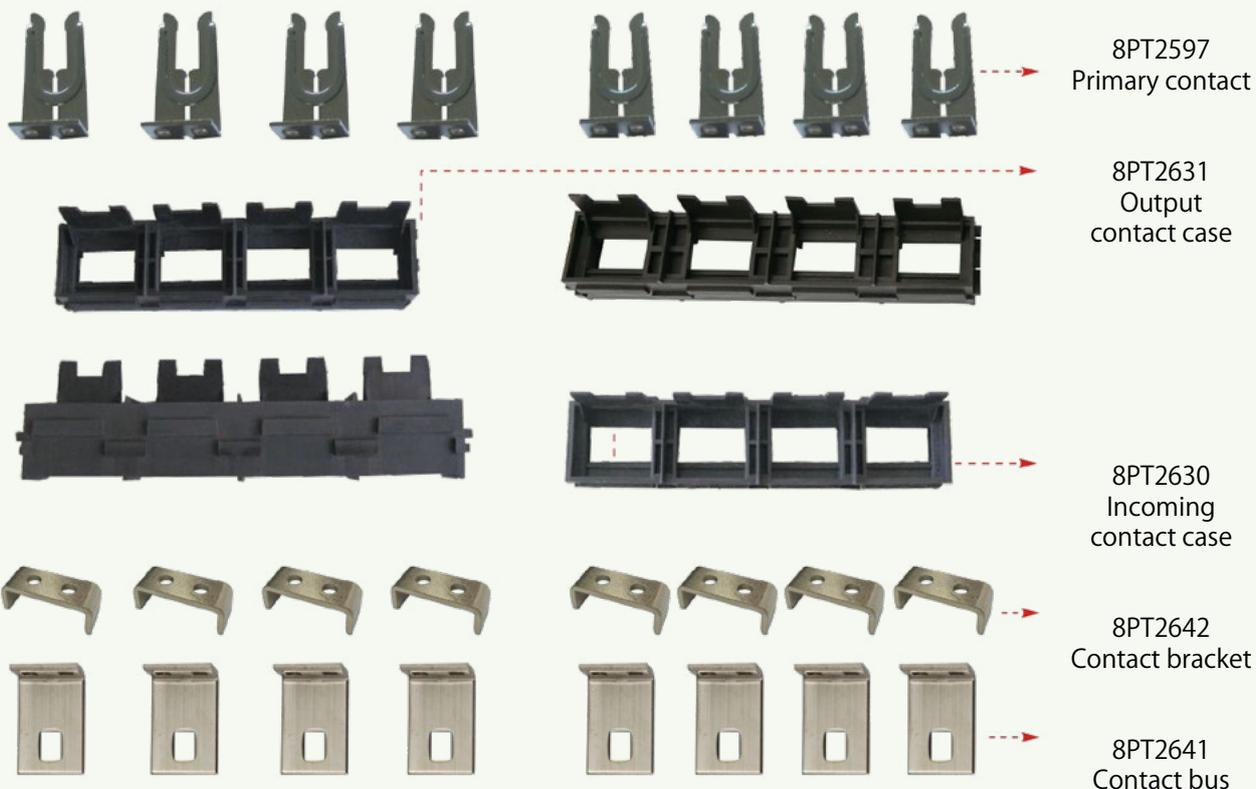
8PT9325  
c contact system

Contact number of each phase	Rated current [A]	Allowed current [kA]
1	225	≈50
2	400	≈50
3	630	≈65



8PT4130  
Incoming contact system

contact system	Product code	Phases	Rated current [A]
8PT9325 (Output)	8PT5315	3P	225A
	8PT5318	4P	225A
	8PT5316	3P	400A
	8PT5319	4P	400A
	8PT5317	3P	630A
	8PT2809	4P	630A
8PT4130 (Incoming)	8PT3741	3P	225A
	8PT2648	4P	225A
	8PT3742	3P	400A
	8PT2647	4P	400A
	8PT3743	3P	630A
	8PT2646	4P	630A



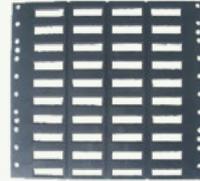
## 15. Busbars, Busbar Holders (1)



Busbar cover (upper)  
8PT3599



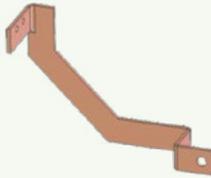
Busbar cover (down)  
8PT3600



Busbar channel cover  
8PT2625



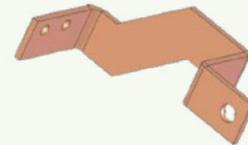
Outgoing shield plate  
8PT4768



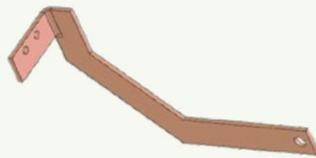
Copper bar L1 1  
8PT3426



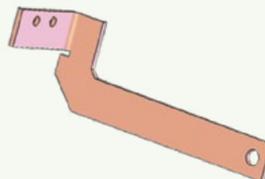
Copper bar L2 1  
8PT3427



Copper bar L3 1  
8PT3428



Copper bar L1 2  
8PT3430



Copper bar L2 2  
8PT3431



Copper bar L3 2  
8PT3432

Connecting bus L1.I3  
120\*10  
8PT23827.00



Connecting bus N.L2  
120\*10  
8PT23827.00G



### Main technical parameters

1. Rated insulating voltage: 1000V
2. Rated working voltage: up to 690V
3. Main bus rated current: up to 7400A;
4. Rated peak withstand current: up to 375kA
5. Rated short time withstand current: up to 150kA, 1s; to 120kA, 3s
6. Rated current of the vertical busbar for circuit breaker technology: up to 6300A
- 6.1 Rated peak withstand current: up to 250kA;
- 6.2 Rated short-time withstand current: up to 100kA, 2s, up to 80kA, 3s;
7. Rated current of the vertical busbar for fixed installation technology: up to 2800A;
- 7.1 Rated peak withstand current: up to 163kA;
- 7.2 Rated short time withstand current: up to 65kA, 1s; up to 50kA, 3s;
8. Rated current of the vertical busbar for strip insert technology: up to 2100A;
- 8.1 Rated peak withstand current: up to 110kA;
- 8.2 Rated short-time withstand current: up to 50kA, 1s;
9. Rated current of the vertical busbar for plugin type and draw-out type technology: up to 1200kA;
- 9.1 Rated peak withstand current: up to 163kA;
- 9.2 Rated short-time withstand current: up to 65kA, 1s; up to 50kA, 3s;
10. Rated current of the switch: CB: up to 6300A, Cable feeder circuits: up to 630A



Outgoing contact case  
(Small current)  
8PT4073



Insulating sleeve  
8PT8354

Outgoing copper  
8PT4074

15. Busbars, Busbar Holders (2)



Vertical busbar holder  
8PT9183.01



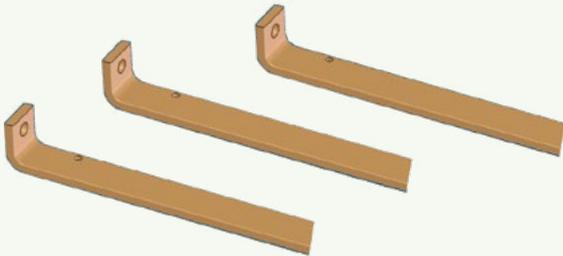
PE cable holder  
8PT733.00



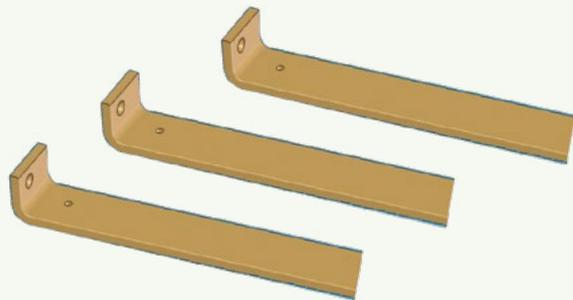
Copper latch bracket  
8PT22722(3P)



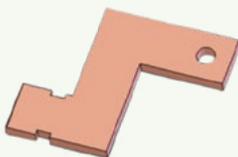
Copper latch bracket  
8PT22544.01(4P)



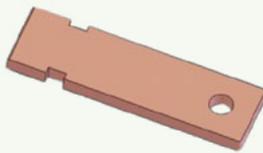
Vertical busbar 40\*10  
(N bar use 4 pcs)  
8PT3155.01



Vertical busbar 60\*10  
(N bar use 4 pcs)  
8PT3152.01



Rear outgoing bus  
N-L2 (630A)  
8PT22570



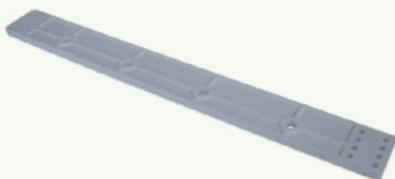
Rear outgoing bus  
L1-L3 (630A)  
8PT22571



8PT3812



8PT3817



Vertical supporting holder  
8PT963.00

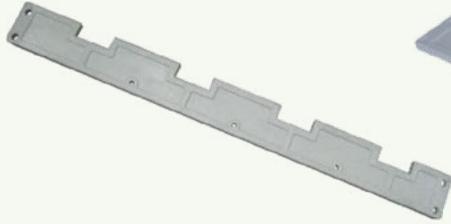


Reset bracket  
8PT23796



Safety hook lock  
8PT22750

## 15. Busbars, Busbar Holders (3)



Insulating holder  
8PT545.00 (51mm)  
8PT545.63.5(63.5mm)



Insulating holder  
8PT544.00



Side insulating cover  
8PT22572.00



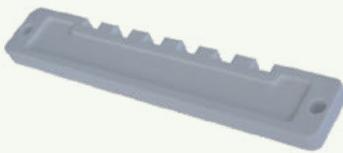
Insulating holder  
8PT2622.00



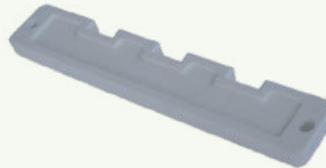
Insulating holder  
8PT9894.30



Insulating holder  
8PT9894.00



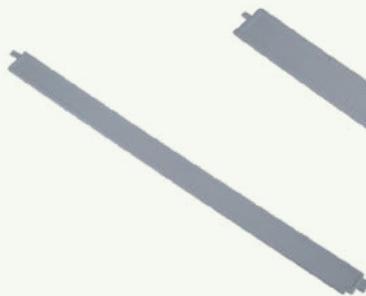
Insulating bracket  
8PT33817.01



Insulating holder  
8PT34520



Insulating holder  
8PT22545.01



Left cover plate  
8PT5746.01



Right cover plate  
8PT5745.02

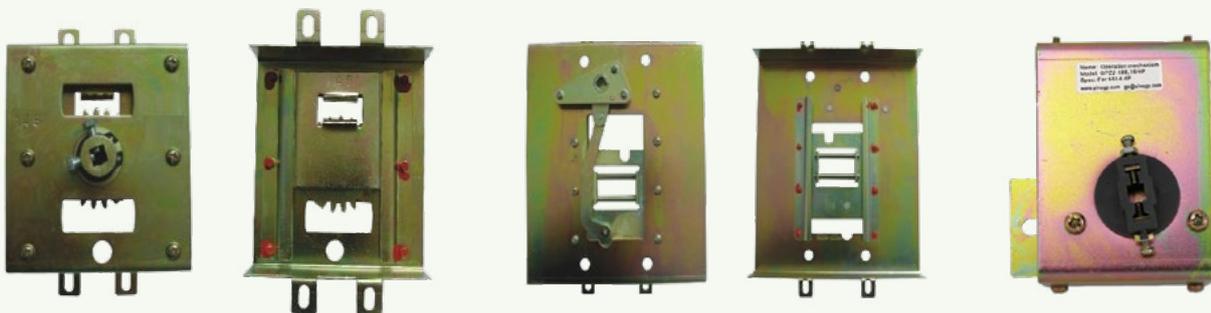


Strengthened holder  
8PT8453.00



Strengthened holder  
8PT8595.00

## 16. Operation Mechanism and Handle



GPZ2 front      GPZ2 back      GPZ3 front      GPZ3 back      For MCB

Circuit Breaker	Model	Mechanism type	Axis Size
3VA10/11B/N/S/M/H/3P 100/160	GPZ2-1347.6/S	Center mechanism	□ 8 × 8
	GPZ3-161.40	Eccentric mechanism	□ 8 × 8
	GPZ3-1347.7	Eccentric mechanism	□ 6 × 6
3VA12M/H/C/L/3P 250	GPZ2-1361.1	Center mechanism	□ 8 × 8
3VA2M/H/C/L/3P 100/160/250	GPZ2-133.7	Center mechanism	□ 8 × 8
3VA2M/H/C/L/3P 400/630	GPZ2-246.18	Center mechanism	□ 10 × 10
	GPZ3-296.6	Eccentric mechanism	
5SL4 3P	GPZ2-198.16/3P	Center mechanism	□ 6 × 6
5SL4 4P	GPZ2-198.16/4P	Center mechanism	□ 6 × 6



8GPSB-1.71  
310207  
Short handle (8UC71 handle)



8GPSB-1.72  
310208(axis8\*8\*150)  
310213(axis6\*6\*180)  
Medium handle (8UC72 handle)



8GPSB-1.73  
310209  
Long handle (8UC73 handle)



8PT15449      8PT15346(26.5mm)      8PT15347:15\*3  
8PT15346.1(24.5mm)      8PT15348:30\*3  
8PT15349:10\*3

Note: This catalog only lists regular products. Other components if not listed in this catalog, please contact with GP to get more information, we can customize as your special requirement.



