

## Prisma

### Summary

In order to satisfy the L.V. distribution market's requirement of high performance & reliability, easy maintenance and intelligentized products, we cooperate with Schneider and exploit Prisma series products with whole series standard connection scheme. All the standard schemes of Prisma have passed the type testing, which makes sure all the products in this series operating in good reliability and safety. This product is according to GB7251.1 <<Part 1 of L.V. Switchgear equipments and Controlling Equipments: Type test and Partial Type Test of Completed set Equipments >>, IEC60439-1 <<Part 1 of L.V. Switchgear Equipments and Controlling Equipments' modules: The Modules which have been tested or partial tested by type test >>, NFEN60439.1, EN60439-1 <<Part 1 of L.V. Switchgear Controlling Equipments' Modules regulation: Combined Device which have been tested or partial tested by type test>>.

Prisma P Switchgear Equipments apply to three phases AC 50/60Hz, Max. Voltage is 690V, Max. Current is 4000A distribution system works as power receiving and distribution device, control, protect and test the power circuit. The shell of this switchgear is made of Zinc alluminized sheet, the door board and sealing board are protected by epoxy resin powder print, so its outward appearance is nice and well integrated with the ambient. It is widely used in commercial building, industrial building, civil building, Industrial & mining enterprises, power substation, etc.



### Product feature

#### 1. Reliable Electrical Equipments:

Perfect intergration between power equipments made by Schneider and prisma system are the core element to make sure this product has high reliability.

The design of this system has passed the TTA test, and has been proved by many years experience.

According to GB7251.1, IEC 439-1, EN60439-1, NF EN60439-1 etc.

Passed the EMC test, it can fully satisfy the requirements of intelligentized controlling system's installation and usage, and it is suitable for all the indoor occasions.

#### 2. Open ended Electrical Equipments:

The modularized designation make the Prisma Function System can extend the new functions conveniently according to the requirements.

High standardized product, all the components are standardized, so they can be repaired and ammended very conveniently.

#### 3. Make sure the operating workers' safety:

All the equipments are installed behind the front dismountable board, and only the operating handle is bared, avoiding the operating workers touch the live parts directly, so it is very convenient for examining and repairing. Fully make sure the operation staff and their operating safety.

#### 4. Elegant appearance

With net printed glass door or solid slab.

Prisma ture color and electrostatic powder flame printing.

Corner 45°, elegant appearance.

Prisma P switchgear's main function designation:

### Bus bar system designation

Special structural section make the heat cooling in max. degree, and the current in maximum grade.

Convenient installtion.

Achieves connection without any holes, so it can be repaired and changed conveniently.

It can contact all the connection points in front.

It can distribute the power to both sides through the non-conventional busbar.

Reliable prefabricate connection connected with horizontal bus bar.

## Modular designation

The Prisma P switchgear has 35 Nos. modular, each modular:

Absolute independence.

Installed in prefabricate installation board.

Protected by the front board.

The vertical height is 50 mm modular is a unit which contains: up & down wiring and auxiliary wiring.

## Intelligentized designation

Complete power grid

Allocated power grid

With communication function:

Ambient condition

Altitude  $\leq$  2000m, indoor installtion;

Ambient temperature:-0.5°C to + 40°C, Average temperature  $\leq$  35°C;

Ambient humidity: when the temperature is 40°C, it can be 50%, when the temperature is lower than 40°C, it can bear higher relative humidity;

Pollution degree is grade 3.

The installtion ground evenness should be less than 2mm/m.

## Technical specification

		Prisma P
Relative standard		
Type test parts	IEC 60439-1, EN 60439-1, NF EN 60439-1, DIN 41-488, BS 5486, GB 7251-1	
Inner arcing withstand	NO.68042	
Protection degree	IEC 60529	
Impact resistance	EN 50102	
Electric characteristic		
Rated insulation voltage(V)	1000	
Rated operation voltage(V)	690	
Rated impluse withstand voltage	12	
Over voltage type	IV	
Pollution degree	3	
Frequency	50/60	
Main busbar	Rated current	630~4000
	Rated short time withstand current	85
	Rated peak withstand current	187
Branch busbar	Rated current	630~4000
	Rated short time withstand current	85
	Rated peak withstand current	187
Mechanism characteristic		
Height	2025	
Modular	35	
Width	700/900/1100/1200	
Depth	400/600/800/1000	
Division type protection degree IP	20/30/31/54	
Outward impact resistance IK	08	