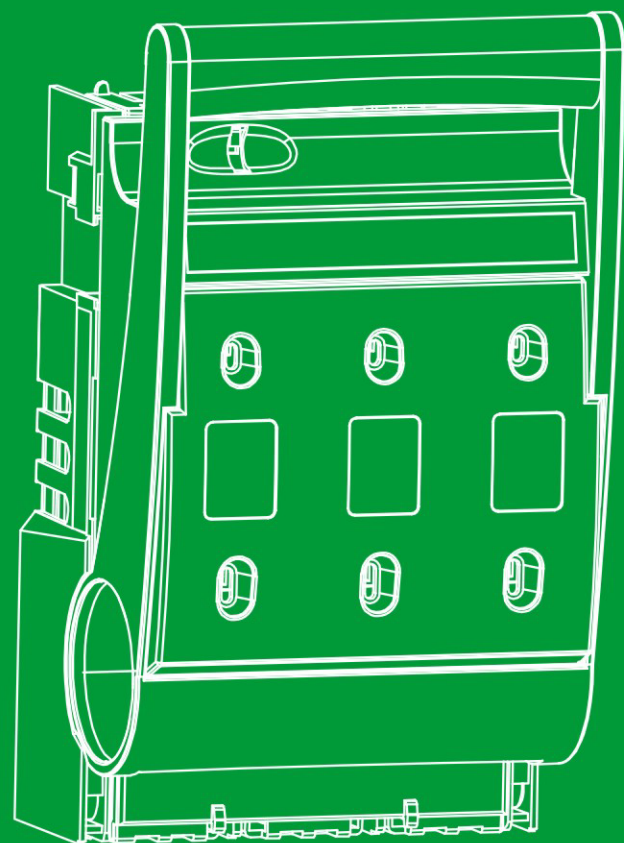




Smart Photovoltaic Electrical Selection Manual

FUSE TYPE ISOLATING SWITCH

3.0



fuse type isolating switch

3.1 GY-XLP series fuse type isolating switch

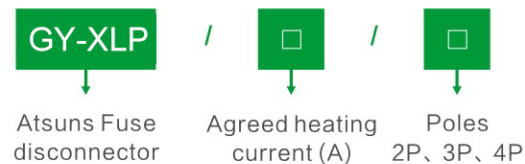
GY-XLP160/250 series fuse type isolating switch

Product Description

GY-XLP fuse-type isolating switches (hereinafter referred to as switches) are suitable for AC 50/60Hz rated voltage to DC500V/AC690V and agreed heating current to 800A in distribution circuits and motor circuits with high short-circuit current as power switches and isolating switches. , emergency switch, and used for circuit protection, but generally not used to directly switch a single motor. It can also be used as a knife switch.

Comply with standards: GB/T14048.3 IEC60947-3.

Model and meaning



Normal operating conditions and installation conditions

- 1. The ambient air temperature should not be higher than +50℃ and not lower than -5℃.
- 2. The altitude of the installation location does not exceed 2000m.
- 3. Humidity: When the maximum temperature is +50° C, the relative humidity of the air does not exceed 50%. Higher relative humidity is allowed at lower temperatures, such as 90% at 20° C. Special measures should be taken against occasional condensation due to temperature changes.
- 4. The pollution level of the surrounding environment is level 3.
- 5. The switch should be installed in a place without significant shaking, shock vibration and rain or snow attack. At the same time, there should be no explosive hazardous media in the installation location, and there should be no gas and dust in the medium that can corrode metal and damage insulation.

The relationship between switches and fuses

Agreed heating current (A)	Fuse link model	Rated working voltage (V)	Melt current value (A)
160	NT00 RT16-00	DC220V	4、6、10、16、20、25、32、35、40、50、63、80、100、125、160
		DC500V	4、6、10、16、20、25、32、35、40、50、63、80、100
		AC400V	4、6、10、16、20、25、32、35、40、50、63、80、100、125、160
		AC690V	4、6、10、16、20、25、32、35、40、50、63、80、100
250	NT1 RT16-1	DC500V	80、100、125、160、200、225、250
		AC400V	80、100、125、160、200、225、250
		AC690V	80、100、125、160、200

GY-XLP160/250 series fuse type isolating switch

Switch technical parameters

model	160				250		
Number of poles	2P				2P		
Rated operating voltage Ue AC (V)	—	—	500	690	—	500	690
Rated operating voltage Ue DC(V)	220	500	—	—	500	—	—
Rated operating current Ie (A)	160	100	160	100	250	250	200
Fuse thermal overload current (A)	160	160	160	160	250	250	250
Usage categories	DC22B	DC22B	AC22B	AC21B	DC22B	AC22B	AC21B
Rated insulation voltage Ui (kV)	1000				1000		
Rated impact withstand voltage Uimp (kV)	8				8		
Rated limited short-circuit current (kA)	50				50		
Rated frequency (Hz)	50/60				50/60		
Single phase power loss (W)	3.5				7.5		
Electrical life	200				200		
Mechanical life	1400				1400		
Front protection level according to IEC60529	Open	IP20		IP20		IP20	
	Closure	IP30		IP30		IP30	

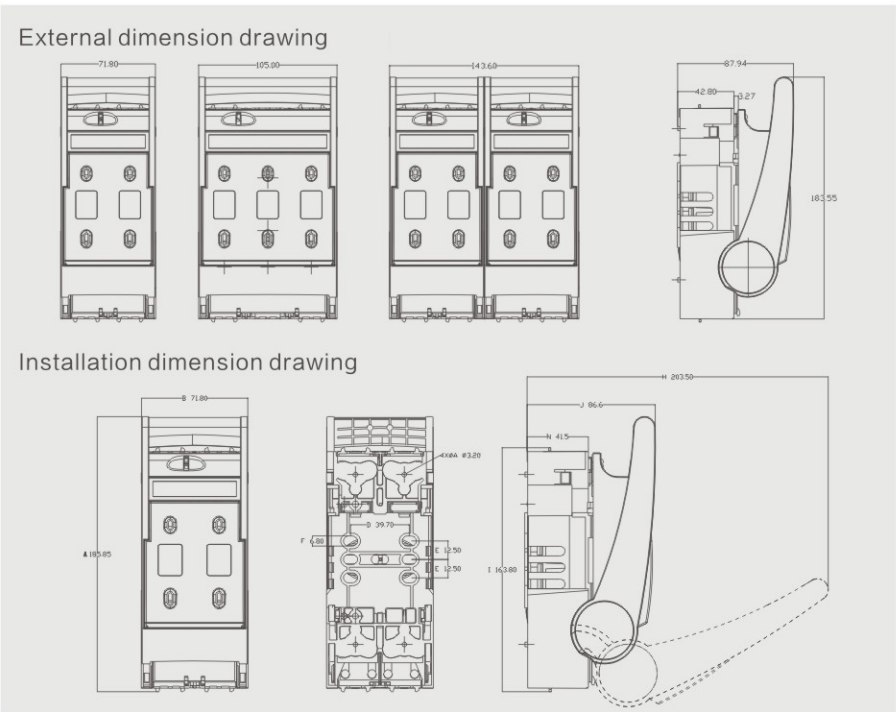
The rated voltage of the auxiliary switch is AC 380V, the agreed heating current is 5A, the usage category is AC-15, and the rated working power is 300VA.

Structure

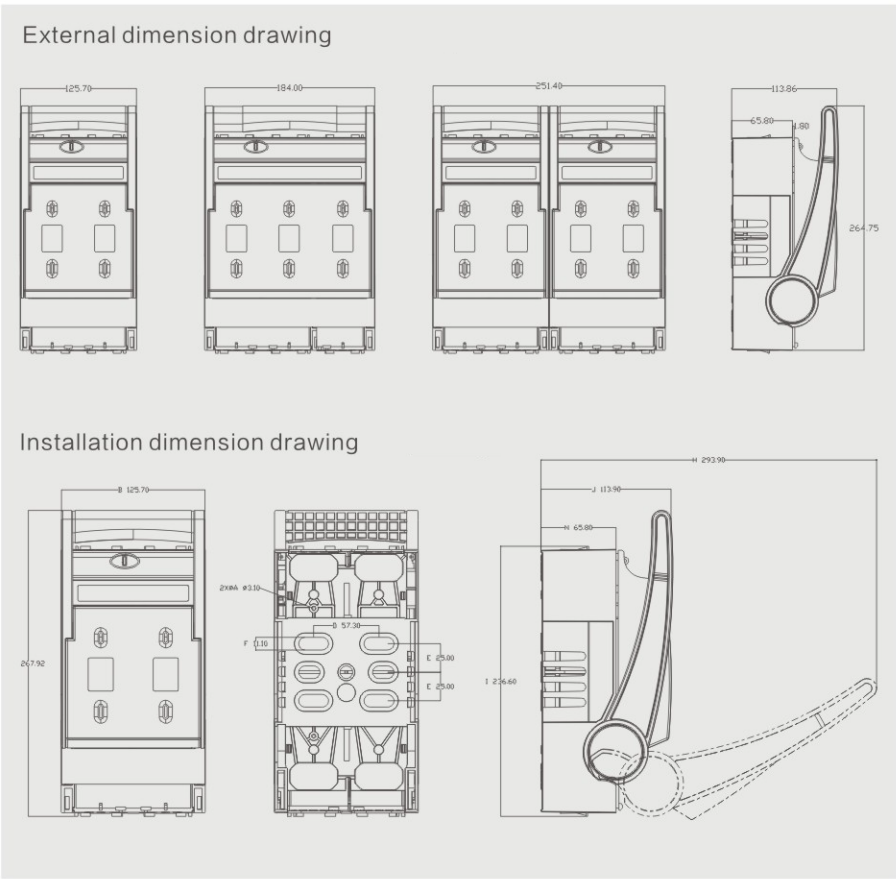
The switch is composed of a base, a cover and a contact bridge. The fuse is installed inside the cover. The cover can rotate in a fan shape along the support. It has a large electrical isolation distance to meet the requirements of the isolating switch. The cover can be easily removed from the base. Removable, making it easy to install and replace the fuse link.

There are two sets of mounting holes on the base, which can meet the installation requirements in various switch cabinets and on panels. On both sides of the switch, auxiliary contacts can be installed as needed to send signals indicating the opening and closing status of the switch.

Shape and installation dimensions



Outline and installation dimensions



Size	Specifications	
	160A	250A
A	185.85	267.92
B	71.8	125.7
ΦA	3.2	3.1
D	39.7	57.3
E	12.5	25
F	6.8	11.1
H	203.5	293.9
J	86.6	113.9
I	163.8	236.6
N	41.5	65.8

Use and maintenance

- Before installation, check whether the switch is intact and can be operated flexibly;
- Working conditions should comply with regulations 3.1~3.5;
- The switch should be regularly maintained and adjusted to remove dirt and keep clean so that the contacts can work in good contact condition;