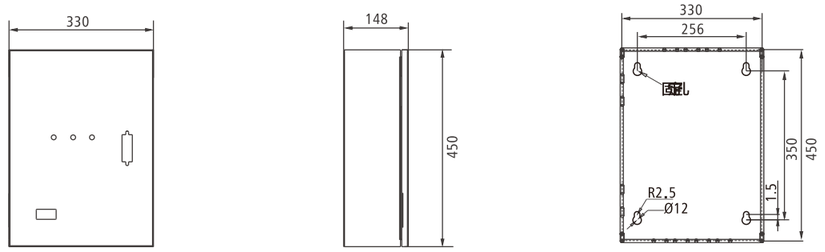
Technical Parameters

Model	HJ100P
Overall Parameters	
System Rated Voltage (U_0)	220VAC
Maximum Continuous Operating Voltage (Uc)	385VAC
Nominal Discharge Voltage (Varistor Voltage) (U_{1mA})	L-N: 620V±10%
Leakage Current(lie)	L-N: ≤20μA @75U_{1mA}
Voltage Protection Level (Up)	L/N-PE: ≤1.2kV
Nominal Discharge Current (In)	L-N: 40kA(8/20)
Maximum Discharge Current for Class II Test Imax	L-N: 100kA(8/20)
Impulse Breakdown Voltage(1kV/μs)	N-PE:＜950V
DC Breakdown Voltage(100V/μs)	N-PE: 600V±20%
Nominal Discharge Current (In)	N-PE: 40kA(8/20)
Maximum Discharge Current for Class II Test (Imax)	N-PE: 100kA(8/20)
Upstream Overcurrent Protector	T08/80
Lightning Counter	Maximum Count: 99,999,999 (resettable)
Surge Protector Status Indicator	Normal (Steady On)
Enclosure Protection Rating	IP20
Terminal Screw	M6
Minimum Cross-Sectional Area of Connecting Cable	10mm²/flexible
Maximum Cross-Sectional Area of Connecting Cable	25mm²/flexible
Operating Environment	Temperature: -40°C to +70°C Relative Humidity: ＜95%
Maximum Cross-Sectional Area of Connecting Cable	25mm²/flexible
Enclosure Material	Cold-Rolled Steel
Dimensions	330×450×148mm
Automatic Recloser Parameters	
Power Consumption	Static: ＜0.1 W Dynamic: ＜4 W
Closing Time	＜2s
Remote Open/Close Control	Control Closing and Opening: ＜2s
Number of Consecutive Closing	Default 3 Times (Programmable 0–99 Times)
Interval Between Consecutive Closures	Default 5 Seconds (Programmable 0–99 Seconds)
Control Cable Length	Control Closing/Opening Cable: ＜1500 m @ 1.5mm²
Bus Communication	RS485, Transmission Distance: ＜1000 m
Maximum Count	99 (Resettable)

Installation Dimensions (mm)



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Intelligent Transient Voltage Surge Suppressor

XIAMEN TAIHANG TECHNOLOGY CO.,LTD



Product Model

- HJ100P

Intelligent Transient Voltage Surge Suppressor

The Intelligent Transient Voltage Surge Suppressor (Power Surge Protection Box) is installed indoors and connected in series with the power supply system. The surge protection modules inside the power surge protection box protect against surges caused by lightning or other transient overvoltages. Thesemodules divert surge currents on the power line to the ground and limit overvoltage. The power surge protection box features lightning strike counting, remote status indication, and LED indicators for degradation or failure of the surge protection modules.

Main Features

1) Compliant with IEC 61643.11
2) High-energy-capacity zinc oxide varistors with large discharge current capability.
3) Utilizes active energy control technology, compact size, high impulse current capacity, and low protection level.
4) Fast response time, less than 25ns.
5) Specially selected device parameters suitable for poor-quality power supply environments.
6) Temperature-controlled breaker technology to prevent fire hazards.
7) Equipped with lightning counters and status indicator lights to clearly show operating status.
8) Features an automatic recloser to ensure the SPD can quickly re-close after the preceding overcurrent protector trips, maintaining continuous surge protection; also supports RS485 or remote control for remote operation.
9) Exquisite craftsmanship, capable of long-term operation in harsh environments.

Model Definition

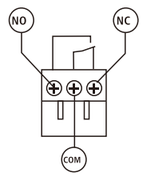
H J 100 P

- P – Single Phase ; Y – Three Phase
- Maximum Discharge Current: 100kA
- Function: J – With Lightning Counter; Blank – Without Lightning Counter
- Product Series: H

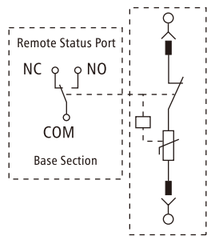
Installation Diagram

Rated Operating Voltage
AC 0.2A/125V
DC 0.5A/48V

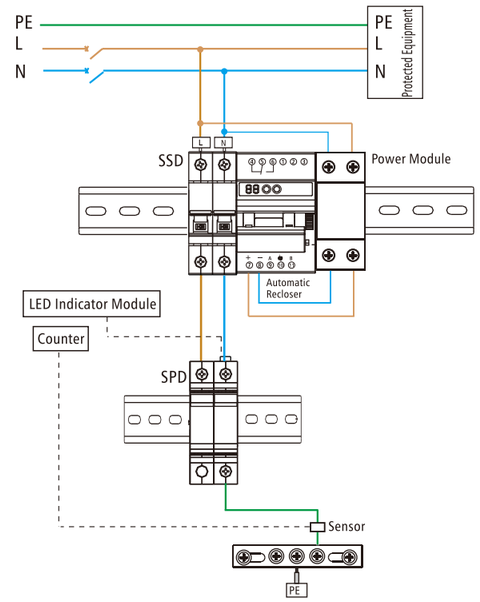
With Remote Status Interface: any single-level failure will trigger a remote status signal.



Remote Status Indicator Diagram



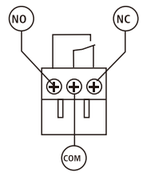
Remote Status Wiring Diagram



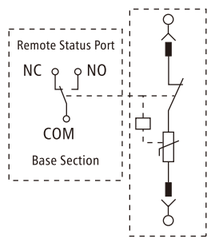
1PN Installation Diagram

Rated Operating Voltage
AC 0.2A/125V
DC 0.5A/48V

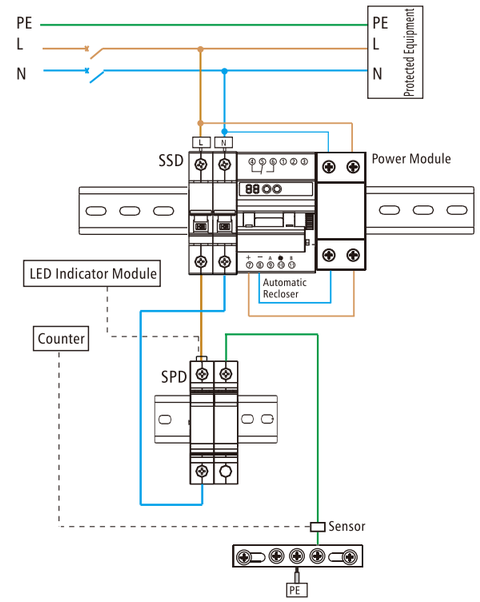
With Remote Status Interface: any single-level failure will trigger a remote status signal.



Remote Status Indicator Diagram



Remote Status Wiring Diagram



1P1 Installation Diagram