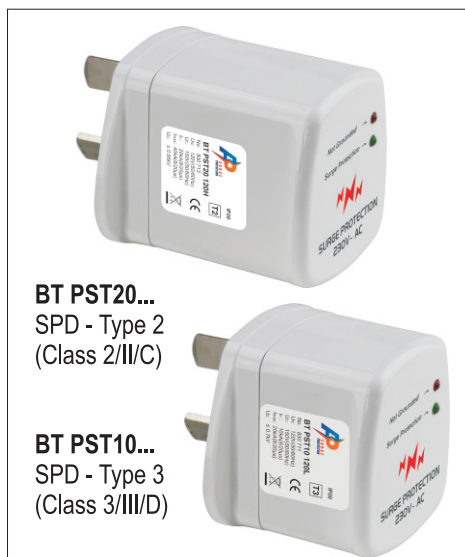




BT PST10 ... / PST20 ...



• Technical data

| Type | | BT PST10 120L | BT PST10 230L | BT PST20 120H | BT PST20 230H |
|--|-----------|--|-------------------------------|------------------------------|-------------------------------|
| Art.-No. | | 830 711 | 830 712 | 830 713 | 830 714 |
| Nominal a.c. voltage | U_N | 120V~ | 230V~ | 120V~ | 230V~ |
| Rated voltage (max. continuous a.c. voltage) | U_C | 150V~ | 275V~ | 150V~ | 275V~ |
| Nominal discharge current (8/20) | I_n | 10kA | 10kA | 20kA | 20kA |
| Max. discharge current (8/20) | I_{max} | 20kA | 20kA | 40kA | 40kA |
| Voltage protection level [L-N / N-PE] | U_p | $\leq 0.7kV$ $\leq 1.5kV$ | $\leq 0.95kV$ $\leq 1.5kV$ | $\leq 1.0kV$ $\leq 1.5kV$ | $\leq 1.25kV$ $\leq 1.5kV$ |
| Response time [L-N / N-PE] | t_A | $\leq 25ns$ $\leq 100ns$ | $\leq 25ns$ $\leq 100ns$ | $\leq 25ns$ $\leq 100ns$ | $\leq 25ns$ $\leq 100ns$ |
| Max. back up fuse | | 16A gL/gG | | | |
| Short-circuit withstand capability at max. back up fuse | | 6kA _{rms} | | | |
| Operating state indication | | Green light | | | |
| Grounding state indication | | Red light | | | |
| Operating temperature range | T_u | -40°C...+80°C | | | |
| Connecting mode | | Standard plug | | | |
| Enclosure material | | White housing termoplastic, UL94-V0 | | | |
| Test standards | | IEC 61643-11; EN 61643-11; GB 18802.11 | | | |
| Certification | | CE (LVD, EMC); RoHS | | | |
| Protection level | | IP 20 | | | |

• Product introduction

1. Summary

BT PST10... / PST20... Surge Protective device for protection of terminal electronic Equipment, with LED indicators for Surge Protection and Grounding connection status. This is designed according to IEC 61643-11; EN 61643-11; GB 18802.11 standards; Class 2-3 (Type 2-3) surge protection and lightning protection equipment.

2. Main character

- Provides Surge Protection, with combined technology of fast response of Metal Oxide Varistor (MOV), and High Discharge Capacity of Gas Discharge Tube (GDT).
- Two LED Indicators, Green LED for Surge Protection Status; Red LED for Grounding Connection Status.
- Simple plug in and go SPD, no complicated installation

3. Application

BT PST10... / PST20... surge protection device is suitable for all installation systems on terminal equipment, such as office electronic equipment and household appliances etc. power socket.

4. Application environment

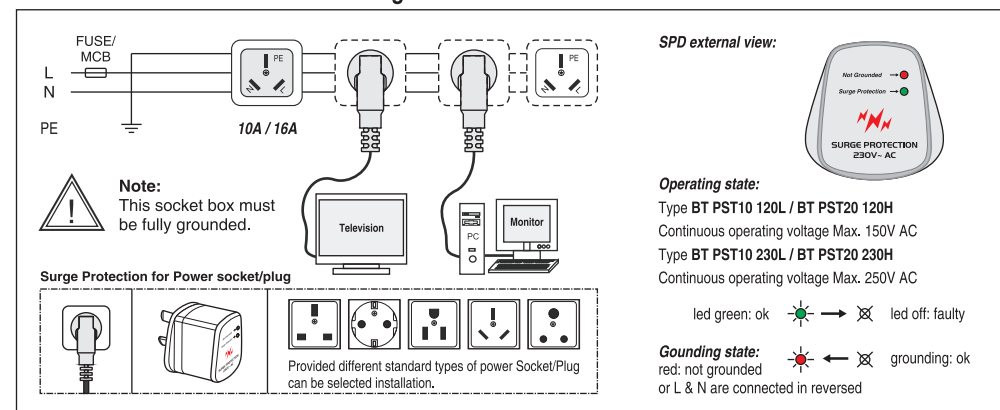
- Temperature: -40°C ~ +80°C;
- Relative humidity: $\leq 95\%$ (25°C)

• Installation instruction

This product can be installed on the LPZ 1-2 or higher interface of the lightning protection zone concept, directly plugged into the indoor wall socket box for electronic equipment for use.

- Green LED Indicators:** When the Green LED is on, it means the Input voltage and surge protection function are normal, otherwise, it means the surge protection function is invalid or there is no input voltage.
- Red LED Indicators:** When the Red LED is off, it means that the external power supply circuit has a good grounding connection, and a good discharge channel when an instant surge spike occurs; on the contrary, when Red LED flashes, it means the external power supply circuit has no proper grounding connection.
- When the product is working normally: only the green indicator light is always on.

BT PST10... / PST20... installation diagram:



WARNING:

- If it is checked that the line is not grounded, we strongly recommend not to install this product to avoid accidents.
- According to the requirements of lightning protection, please have electrician professionals to completely ground the line before using this product.