

## SSD ( SPD Specific Disconnecter)



### Description

In the low-voltage power distribution system, the SSD ( SPD Specific Disconnecter) is an external disconnection device applied in series with the surge protector, suitable for TT, TN and other power supply systems in the range of AC 50/60Hz and 230V-440V.

### Feature

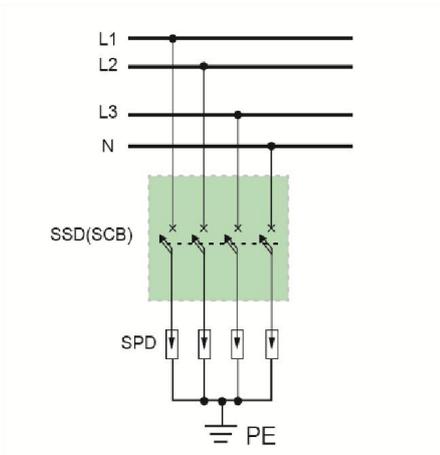
1. The SSD ( SPD Specific Disconnecter) is special designed for SPD according to the requirements of IEC 61643-12: Low Voltage Surge Protective Device – Part 12: Surge Protective Device Connected to Low-voltage System – Selection and Application Principles (Edition 3.0 2020-05) , to solve the problem that when the SPD has power frequency leakage current or working frequency follow current due to deterioration or power frequency overvoltage, The SSD acts quickly to disconnect the SPD from the power frequency distribution system but does not act when the SPD discharges the lightning electromagnetic pulse current; it effectively solves the possibility of serious accidents such as burning and explosion in the application of the SPD, At the same time, it effectively solves the problem of protection dead zone when using a fuse or a circuit breaker as external disconnecting device. In low-voltage power distribution systems, it is an ideal companion device for voltage-switching SPDs and voltage-limiting SPDs.
2. With a special design, it can accurately distinguish and identify the power frequency current and the lightning electromagnetic pulse current, and automatically make the correct action.
3. It has the functions of large current flow, low residual voltage, small power frequency tripping current and short circuit protection tripping.

Note: It is forbidden to connect other loads at the end of the SSD(SCB).

### Specification:

Models	TD-HA15	TD-HA25	TD-HA50	TD-HB20	TD-HB40	TD-HB60	TD-HB80	TD-HB100	TD-HB120	TD-HB160
Test Standard	T1 T2									
Normal Voltage	230/400V AC									
Nominal discharge current (8/20 $\mu$ s) In	50	60	80	10	20	30	40	50	60	80
Maximum discharge current (8/20 $\mu$ s) I <sub>max</sub>	–	–	–	20kA	40kA	60kA	80kA	100kA	120KA	160kA
Maximum discharge current (10/3500 $\mu$ s) I <sub>imp</sub>	15KA	25KA	50KA	–	–	–	–	–	–	–
Frequency	50/60Hz									
Rated short-circuit current capability I <sub>cn</sub>	100kA	100kA	100kA	15kA	35kA	50kA	50kA	100kA	100KA	100kA
Matched SPD	I <sub>imp</sub> 15kA	I <sub>imp</sub> 25kA	I <sub>imp</sub> 50kA	I <sub>max</sub> 20kA	I <sub>max</sub> 40kA	I <sub>max</sub> 60kA	I <sub>max</sub> 80kA	I <sub>max</sub> 100kA	I <sub>max</sub> 120kA	I <sub>max</sub> 160kA

Powerfrequency short circuit operating current $I_d$	3A		
Powerfrequency breaking times $T_{cn}$	20ms		
Width of per pole	36mm	18mm	36mm
Powerfrequency breaking times	10000 times		
IP Grade	IP20		
Remote signal alarm	Option		
Cross section of connection	2.5-35mm <sup>2</sup>		
Working Temperature	-25°C ~ +60°C		
Storage Temperature	-40°C ~ +75°C		
Number of pole	1P/2P/3P/4P		

**Diagram**

**Dimension**
