

## SCB-80 SCB-100

### scope of application

This device provides overcurrent protection for SPD power circuits, featuring low short-circuit operating current and high lightning current resistance. It intelligently detects both lightning currents and power frequency overcurrents, delivering optimal SPD protection. It effectively prevents fire hazards caused by SPD degradation-induced damage from power grid overcurrents.

### technical parameter

model	SCB-80-2P(3P/4P)	SCB-100-2P(3P/4P)
SPD in accordance with GB/T18802.11/IEC61643-11	Grade II/Category II	Type I/Class I
Nominal AC voltage (Un)	230V/400V(50/60Hz)	
Maximum continuous operating voltage (Uc)	500V	
Nominal discharge current (8/20 μs) [In]	80KA	100KA
Impulse current (10/350μs) [Iimp]	-	15KA
rated current (Ie)	3A	
short circuit breaking capacity (Icn)	100KA	
response time (t)	≤100ns	
Working temperature range (Tu)	-40°C ~ +80°C	
operative mode	Green/Red	
minimum installed conductor cross-sectional area	1.5mm <sup>2</sup> single-strand wire/soft wire	
maximum installed conductor cross-sectional area	35mm <sup>2</sup> multi-strand wire / 25mm <sup>2</sup> flexible wire	
way to install	35mm DIN rail, compliant with EN60715	
sheathing material	Gray thermoplastic material, UL 94 V-0	
installation site	indoor	
levels of protection	IP 20	
size	1/2/3/4 digital model, DIN 43880	
relative humidity	≤95% no condensation	

1. This product is intended solely for overcurrent protection in SPD circuits. Do not use it for other applications.
2. This product is connected in series with the lightning arrester at its front end, with the connecting wire length not exceeding 0.5 meters.
3. The total power frequency current at the load end of this product must be less than 3A.

4. During installation, wet hands and live operation are strictly prohibited to prevent electric shock.
5. When maintaining the lightning arrester, ensure it is in the open position.



### Installation method and size

