

AT-SPD40

Type 2 /Class C lightning protection device (AT-SPD40B) MOV/MOV+GDT Technology



DESCRIPTION

AT-SPD40 series power supply system AC module are mainly applicable to power distribution system for class C / type 2 protection, to protect electrical equipment from the impact of lightning electromagnetic pulse, induced over voltage, transients operation and resonance(less than 100 μ s) over voltage.

FEATURES

- DIN-rail mounting
- Plug connectors for quick and easy connection or rewiring 40kA maximum surge current
- Thermal disconnect device
- Status indicators visually verify protection level
- Surge protection device with N-PE residual current spark gap as 3+1 circuit Remote alarm function

APPLICATION

- Type 2 Class C Surge Protective Device for AC Power System.
- Power distribution box(cabinet)
- AC cabinet, cabinet air conditioner,
- PV inverter, Solar inverter, inverter charger, inverter cabinet
- Switching mode power supply (SMPS Box, SMPS cabin high-frequency switching mode power supply,UPS system
- Data center, IDC power system, Column head cabinet
- Charging station/charging point Sensitive electronic equipment pulse width modulation(PWM box)
- Automatic control panels, motor control panels IT, TT, TN-C, TN-S, TN-C-S and other power supply system.

Anda Telecom Pvt. Ltd.

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TECHNICAL PARAMETER

Model	AT-SPD40B1	AT-SPD40B2	AT-SPD40B1+N	AT-SPD40B4	AT-SPD40B3+N
Lighning proection zone(LPZ)	1-2				
Standards Compliance	IEC61643-11, EN60950				
Classification	Class II /Type 2				
Frequency of the supply main	50/60Hz				
Nominal working voltage Un	220V			220/380V	
Max continuous operating voltage Uc	385V				
Nominal discharge current (8/20μs) In	20KA				
Max discharge current Imax (8/20μs) Imax	40KA				
Temporary overvoltage (TOV) Utov	LV(tT=5s): 442 V (L-PE); 337 V (L-N) LV(tT=120min): 337 V (L-PE); 442 V (L-N) HV(tT=200ms) : 1455 V (L-PE); 1200 V (N-PE)				
Short-circuit current Rating Isccr	25KA				
Protection level (8/20μs) Up	≤1500V				
Response time tA	25ns				
Leakage current at voltage Uc	≤1mA				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE
Dimension	90 (H)×18(W)×65(L)mm	90 (H)×36(W)×65(L)mm		90 (H)×72(W)×65(L)mm	
Mounting	DIN rail Mounting 35mm				
IP code	IP20				
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95%				

Similar models reference

Model	AT-SPD60B1	AT-SPD60B2	AT-SPD60B1+N	AT-SPD60B4	AT-SPD60B3+N
Lighning proection zone(LPZ)	1-2				
Standards Compliance	IEC61643-11, EN60950				
Classification	Class II /Type 2				
Nominal working voltage Un	220V			220/380V	
Max continuous operating voltage Uc	385V				
Nominal discharge current (8/20μs) In	20KA				
Max discharge current Imax (8/20μs) Imax	60KA				

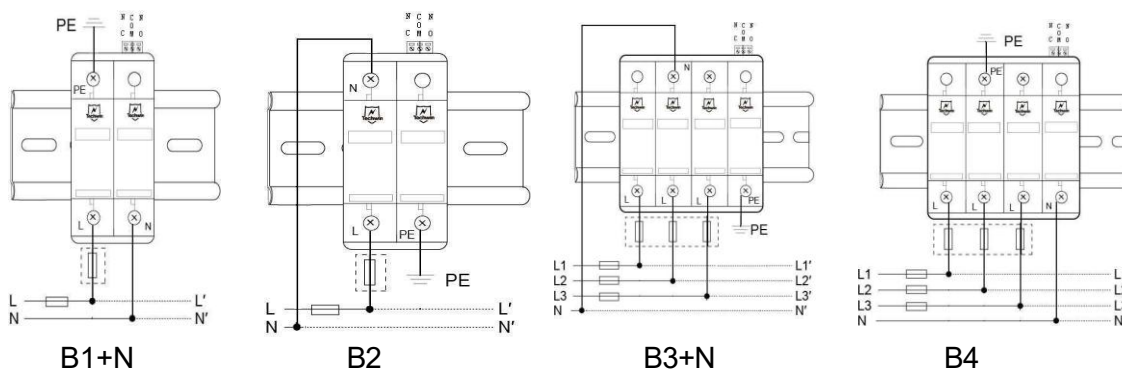
Temporary overvoltage (TOV) U _{toV}	LV(tT=5s): 442 V (L-PE); 337 V (L-N) LV(tT=120min): 337 V (L-PE); 442 V (L-N) HV(tT=200ms) : 1455 V (L-PE); 1200 V (N-PE)				
Protection level 8/20μs Up	1800V				
Response time tA	25ns				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE
Dimension	90 (H)×18(W)×65(L)mm	90 (H)×36(W)×65(L)mm		90 (H)×72(W)×65(L)mm	
Mounting	DIN rail Mounting 35mm				
IP code	IP20				
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95%				

Nominal discharge current (8/20μs) In	40KA				
Max discharge current Imax (8/20μs) Imax	80KA				
Temporary overvoltage (TOV) UtoV	LV(tT=5s): 442 V (L-PE); 337 V (L-N) LV(tT=120min): 337 V (L-PE); 442 V (L-N) HV(tT=200ms) : 1455 V (L-PE); 1200 V (N-PE)				
Protection level 8/20μs Up	2000V				
Response time tA	25ns				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE
Dimension	90	90 (H)×36(W)×65(L)mm		90 (H)×72(W)×65(L)mm	
Mounting	DIN rail Mounting 35mm				
IP code	IP20				
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95%				
Model	AT-SPD20B1	AT-SPD20B2	AT-SPD20B1+N	AT-SPD20B4	AT-SPD20B3+N
Lighning proection zone(LPZ)	1-2				
Standards Compliance	IEC61643-11, EN60950				
Classification	Class II /Type 2				
Nominal working voltage Un	220V			220/380V	
Max continuous operating voltage Uc	385V				
Nominal discharge current (8/20μs) In	10KA				
Max discharge current Imax (8/20us) Imax	20KA				

Temporary overvoltage (TOV) U _{toV}	LV(tT=5s): 442 V (L-PE); 337 V (L-N) LV(tT=120min): 337 V (L-PE); 442 V (L-N) HV(tT=200ms) : 1455 V (L-PE); 1200 V (N-PE)				
Protection level 8/20μs Up	1200V				
Response time tA	25ns				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE
Dimension	90	90 (H)×36(W)×65(L)mm		90 (H)×72(W)×65(L)mm	
Mounting	DIN rail Mounting 35mm				
IP code	IP20				
Working conditions	Temperature: -40 to 80°C, Relative humidity: ≤95%				

Uc option: A: 420v B: 385V C: 320VD: 275VE: 160VF: 110VG: 85V

Wiring Diagram



ORDERING INFORMATION: -

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