Type 1 +Type 2 /Class B+C lightning surge protection device

Spark gap technology (switch type) SPD

MA25 series (with TUV mark certificate)


MA25


MA25/2


MA25/1+N


MA25/4


MA25/3+N

Description:

MA25/50 series products are mainly used for Type 1+Type 2 protection of power distribution systems (10 / 350μs), and are used to protect electrical and electronic equipment from the damage of lightning electromagnetic pulse induced voltage, operating transients and resonance (<100μs) overvoltage, it widely used in power supply protection in communication equipment, electrical, electrical appliances, power equipment, CCTV, transportation, industrial control, aviation and other fields. This series of products has the characteristics of fast response time, low residual pressure, timely tripping, etc., and the flame retardant level is V-0, which can prevent fire and play a role of safety protection.

Feature:

●DIN rail mounting for easy installation
●Plug connectors for quick and easy connection or rewiring
●Up-to 100kA impulse lightening test current protection
●Switch type technology
● LED based visual indication for device health.
●Remote fault indication (optional)
●Remote alarm function (optional)
●IEC61643-11 compliant

Application

●Class B+C/Type 1+2 Surge Protective Device for AC Power System.
●Designed to protect low voltage distribution systems
●AC Power distribution box(cabinet), Switch power supply,
Column head cabinet
●Charging station/charging point
●Sensitive electronic equipment
● Telecom centers
● Automatic control centers
●Intelligent buildings, Industrial enterprises
● IT, TT, TN-C, TN-S, TN-C-S and other power supply system

Technical parameters

Model	MA25	MA25/2	MA25/1+N	MA25/4	MA25/3+N
Lighning proection zone(LPZ)	1-2				
Standards Compliance	IEC61643-11, EN60950				
Classification	Class B+C/Type 1+Type 2				
Nominal working voltage Un	220-240V AC			380-440V AC	
Max continuous operating voltage Uc	L-N 275V, N-PE 255V				
Max discharge current (10/350μs) Iimp	L-N 25KA, N-PE 100KA				
Nominal discharge current In	L-N 25KA, N-PE 100KA				
Max discharge current Imax (8/20μs) Imax	L-N100KA, N-PE:150KA				
Follow current interrupt rating Ifi	25KArms/100Arms				
Short-Circuit Current Rating Isccr	25KA				
Temporary overvoltage (TOV)(L-N) Ut	440 V / 120 min. – withstand				
Temporary overvoltage (TOV) [N-PE) Ut	1200 V / 200 ms – withstand				
Voltage protection level 8/20μs Up	≤1500V				
Response time tA (L-N/N-PE)	100ns				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE
Housing material	PA66 UL94 V-0				
Dimension	91 (H)×18(W)×65(	91(H)×36(W)×65(L)mm		91 (H)×72(W)×65(L)mm	
Mounting	DIN rail Mounting 35mm				
IP code	IP20				
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95%				

MA50 Series

MA50/1+N

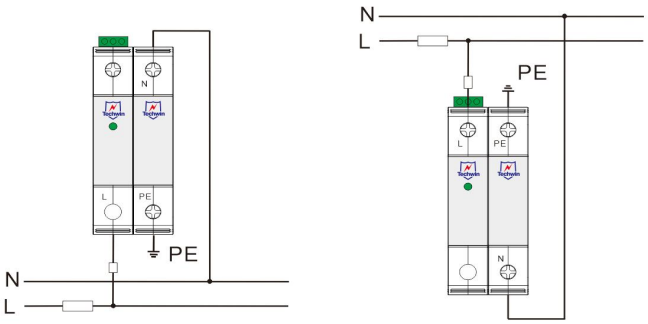
MA50/3+N

Model	MA50	MA25/2	MA25/1+N	MA25/4	MA25/3+N
Lighning proection zone(LPZ)	1-2				
Standards Compliance	IEC61643-11, EN60950				
Classification	Class B+C/Type 1+Type 2				
Nominal working voltage Un	220-240V AC			380-440V AC	
Max continuous operating voltage Uc	**L-N :440V，** N-PE:255V				
Max impulse current (10/350μs) Iimp	L-N:50KA , N-PE: 100kA				
Nominal discharge current In	L-N:50KA , N-PE: 100kA				
Max discharge current Imax (8/20μs) Imax	L-N:100KA, N-PE:200KA				
Temporary overvoltage (TOV) Ut	tT = 120 minutes , ≥ 440 VAC				
Protection level Up	≤1500V				
Response time tA (L-N/N-PE)	≤100ns				
Protection mode	L-PE	L/N-PE	L-N, N-PE	L1/L2/L3,N-PE	L1/L2/L3-N,N-PE

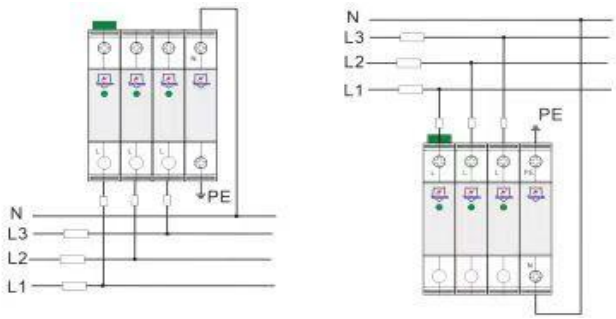
Dimension	90 (H)×18(W)×65(L)mm	91(H)×36(W)×65(L)mm	90 (H)×72(W)×65(L)mm
Housing material	PA66 UL94 V-0		
Mounting	35mm DIN rail		
Recommend cross-sectional area	L/N ≥16mm2 PE≥25mm2		
IP code	IP20		
Working conditions	Temperature: -40 to 80℃, Relative humidity: ≤95％		

Wiring diagram:

MA25/1+N, MA50/1+N



MA25/3+N MA50/3+N



MA25/3 MA50/3