



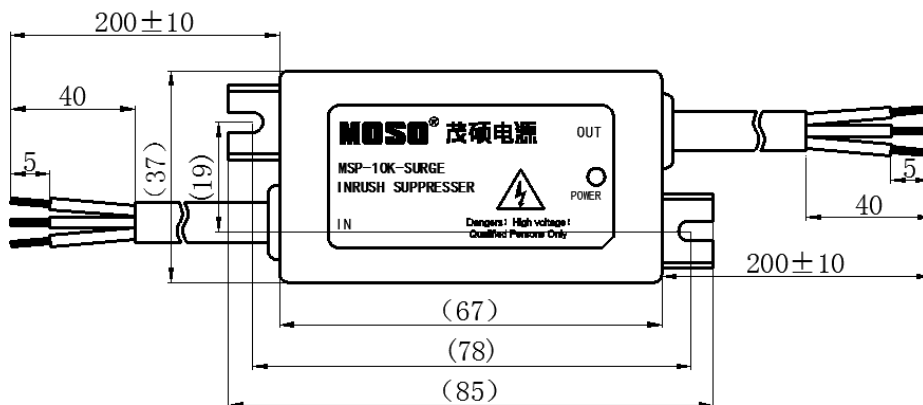
Features:

- Class 1 configuration
- Protection Level L-N, L-PE, N-PE
- Thermal Fuse Disconnected
- 3 wire series connection
- Suitable for LED driver
- IP67, can be used in indoor and outdoor

1. Electric Characteristics

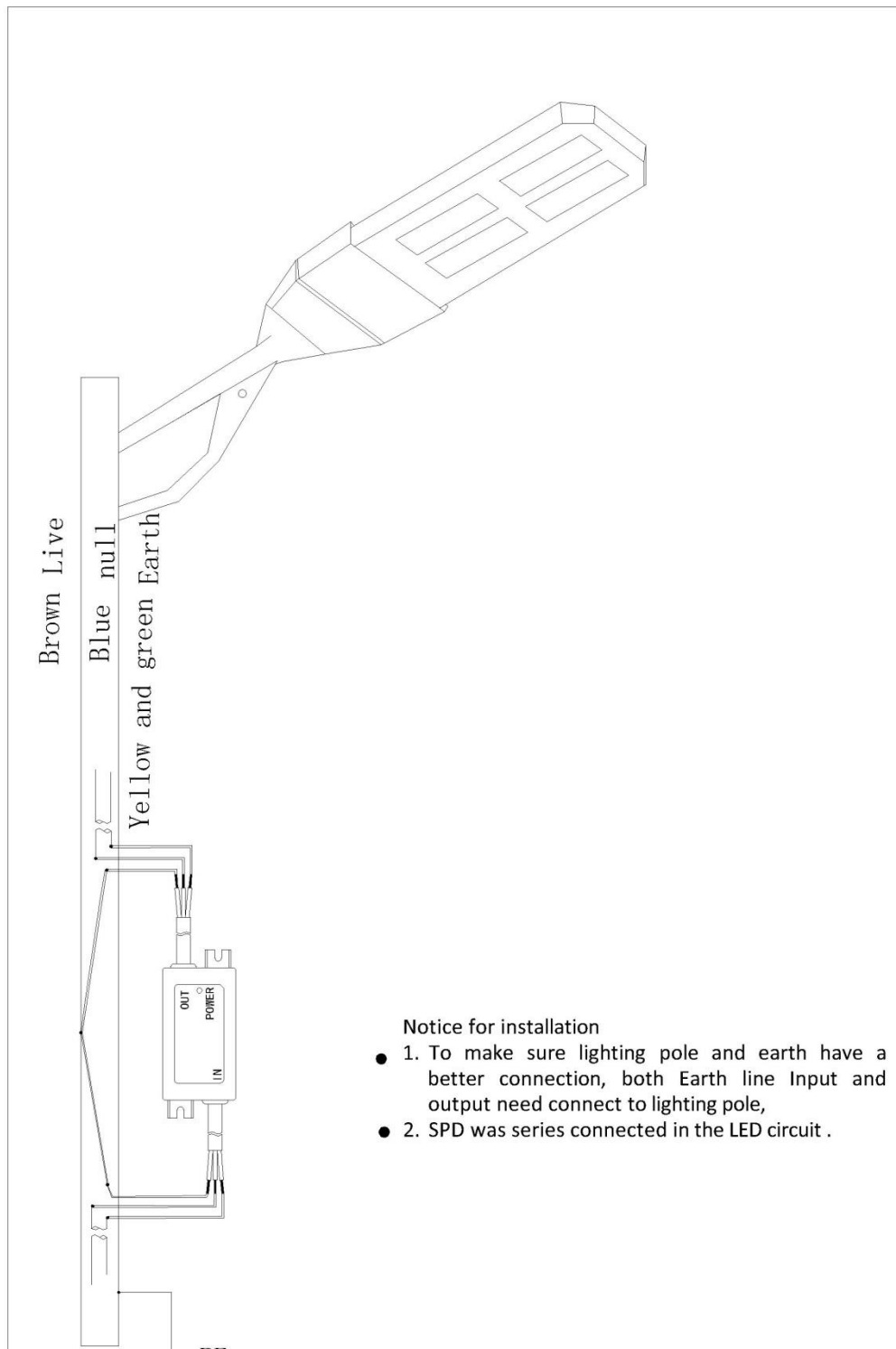
Model	MSP-10K-Surge SPD (external SPD)		
Application system	Single Phase power supply Protection level D		
Input Voltage U_n	100-277VAC 50/60Hz		
Continued operating voltage U_c	320VAC		
Residual Voltage	L-N<1.2KV;L/N-PE<1.5KV		
Nominal Discharge Current I_n (8/20us)	L-N	L-PE	N-PE
	6.5kA	4kA	4kA
Maximum Discharge Current I_{max} (8/20us)	L-N	L-PE	N-PE
	12kA	6.5kA	6.5kA
Resist lightning strike voltage U_{oc}	L-N:10KV L/N-PE:10KV		
Maximum Input Current	15A(AC)		
Response time t_A	L-N \leq 25ns N-PE \leq 100ns; L-PE \leq 100ns		
Nominal Load Power P_w	2kW		
T-ambient	-40~+70°C		
Thermal Fuse Disconnected	+136°C		
Weight	0.15kg		
Safety standard	Conform to EN 60950-1:2006+AC:2011,GB18802.1-2011 Q/75875187-9-1-2011,IEC61000-4-5		
Size	85*37*40 (L*W*H) Unit: mm		
Lead wiring	3x1mm ²		
LED indicator	SPD working normal	SPD failed	
	Turn on	Turn off	

2. Drawing data



3. Installation

Wire series connection: open the wire connecting box, connect one wire with power grid, connect another wire to LED driver. Then connect SPD brown wire to Live wire, connect blue wire to Neutral wire, connect yellow/green wire to earth wire. The connection point need to be welded safely according to IEC standard. Then put SPD into wire connecting box and fix it by screw.



Notice for installation

- 1. To make sure lighting pole and earth have a better connection, both Earth line Input and output need connect to lighting pole,
- 2. SPD was series connected in the LED circuit .