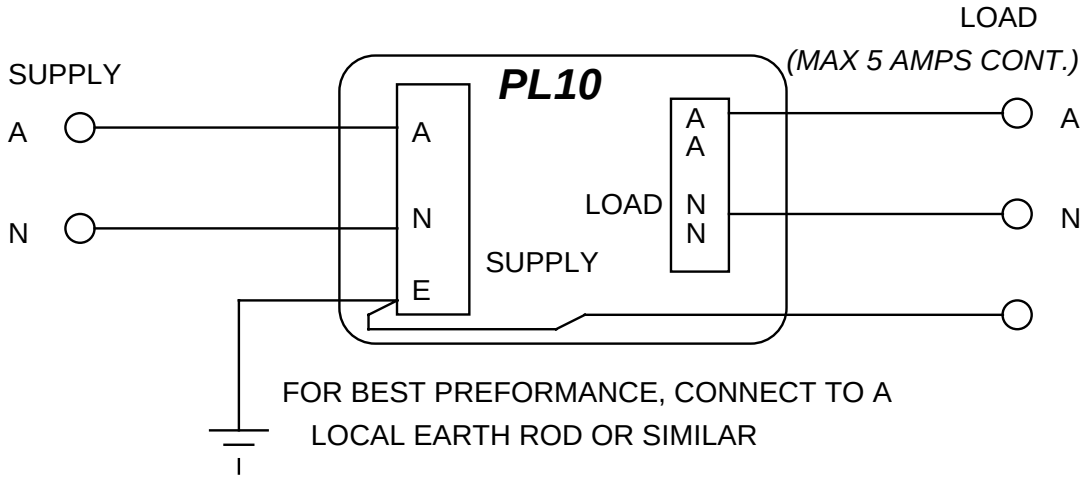
POWER FILTER UNIT (Model PL10) - Installation Instructions

The power filter unit is specifically designed for the protection of sensitive electronic equipment from power surges, electrical interference and other disturbances which can affect the operation of, or damage the equipment. The effectiveness of the unit depends on correct installation.

1. Determine mounting position of PL10 and installation details



1.1 The PL10 should be wired and mounted in between the supply 240VAC and the load. Route cables accordingly

1.2 The total current draw from the PL10 should not exceed 5AMPS continuous. Insure that the equipment it supplies will not exceed this continuous rating or a fire hazard exists.

1.3 The PL10 has a single earth connection. This connection should be directly in 2.5mm^2 earth cable to the supply earth. For best operation of the surge arrestors, this cable should be the most direct route to a system earth as per drawing.

2. Connections

2.1 The supply 240VAC enters from the left side, the load from the right. The load earth may be taken from the earth terminal on the board. Note that there are 2 Active and 2 neutral outputs on the load side for convenience.

3. Mounting

3.1 After making off connections, fit supplied grommets and lid to case. The case can then be mounted lid side down via the 2 lugs at 120mm centers.

4. Power Up

4.1 On application of power, the LED indicator should glow.

5. Operation

The PL10 operates at a slight raised temperature above ambient. If the unit become hot to touch remove power and investigate.

6. Specifications

Enclosure;
66W x 133L (o.a.) x 36Hmm
Weight; 250 g
Mounting; Surface, 120mm centers
Rated Voltage; 100-250 VAC, 45-65 Hz
Rated Current; 5 Amps contin. @ 30°C amb. (10 Amps intermittent)
DIN Climatic; (-15 to 50 °C /90% humidity)
Leakage Current; less than 7 mA
Response Time; <18 nS
MOV Protection; Active to Neutral, Active to Earth, Neutral to Earth
Clamping Voltage; 275 VRMS
Energy Rating; 300 Joules (3 x 100 Joules)
Peak Impulse Current; 14400 Amps 8 x 20 uS
Noise Attenuation; -50 dB @ 250 MHz
Connection; Supply+Load Screw Terminals strip

CHECKSUMXXXXXXXXXXXX