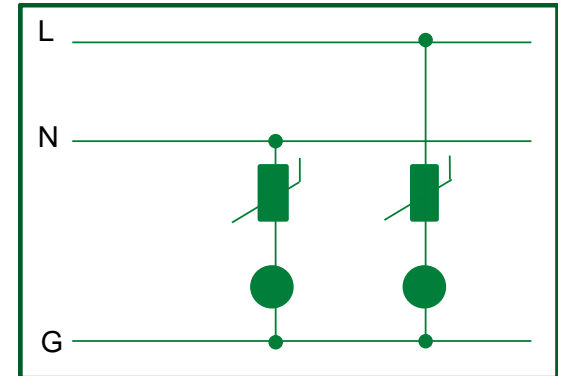


Varistor and GDT for common mode protection

- Varistor (MOV)
 - Minimum MCOV = 1.25 x rated voltage of equipment
 - Example (240 Vac power supply)
 - $240 \times 1.25 = 300 \text{ V}$
 - Same surge requirements → 10 mm* MOV (UltraMOV – series)
- Gas Discharge Tube (GDT)
 - Pass electric strength test of 5.4.9.1
 - Withstand voltage of slide 3 (2500 V) → V_{br} of GDT $\geq 2500 \text{ V}$
 - Comply with clearance and creepage of 5.4.2 and 5.4.3
- MOV and GDT
 - Pass overload test from G.8.2.2
 - Pass temporary over-voltage tests from G.8.2.3
 - 300 V MOV and 2500 V GDT pass



Recommend 10 mm 300 V MOV and CG33.3 GDT