

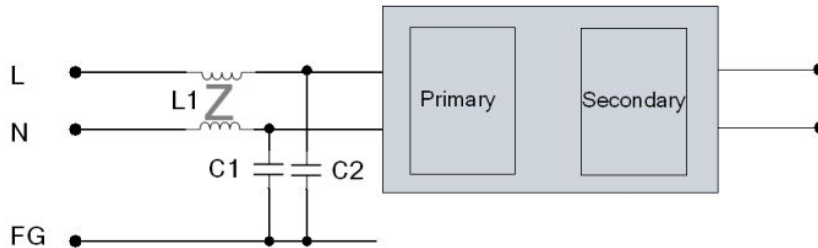
## KM40 series AC-DC power module

### External filter for Class B Conducted emissions

Figure 1 shows a KM40 series product installed in a Class II application

1. Y-capacitors between line L-FG and N-FG must be Y1 rated.
2. Spacing between FG and PRIMARY must be REINFORCED at working voltage.

Figure 1.



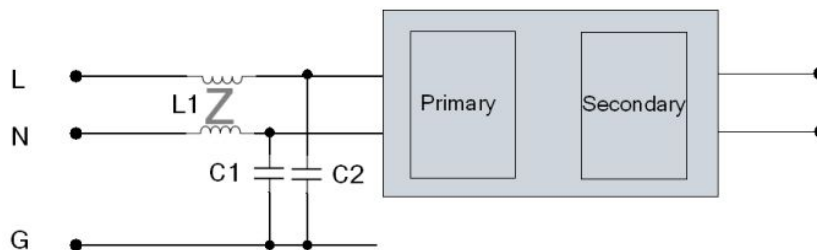
Filter circuit component values for Class II applications:

Common mode inductor L1 - 2mH\*  
Capacitors C1 & C2 – 1.5nF (MUST be Y1 rated).

Figure 2 shows a KM40 series product installed in a Class I application

3. Y-capacitors between line L-G and N-G can be Y1 or Y2 rated.
4. Spacing between G and PRIMARY must be a minimum of BASIC at working voltage.

Figure 2.



Filter circuit component values for Class I applications:

Common mode inductor L1 - 2mH\*  
Capacitors C1 & C2 – 1.5nF (can be Y1 or Y2 rated).

L = AC Live, N = AC Neutral, G = Protective Earth and FG = Functional Ground  
Y1 = Y-capacitor having reinforced insulation  
Y2 = Y-capacitor having basic insulation

\* TDK-EPC Part number B82722A2202N001 or similar