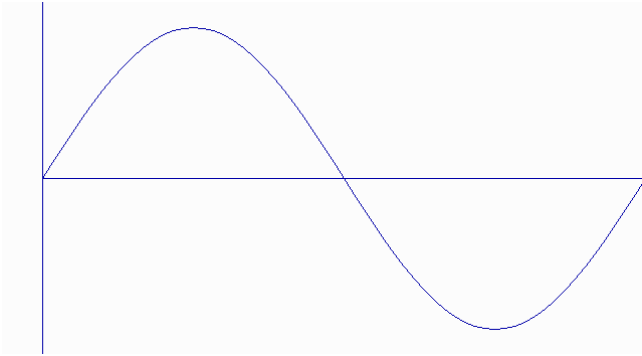


Supply Quality Categories for Tectrite Products

1/ Clean Supply

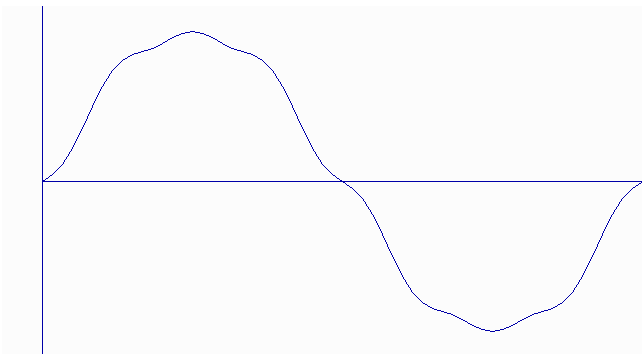


Categories are cumulative ie:

Category 3 includes category 2.
Category 4 includes category 2 & 3.

Only a single phase waveform is shown for clarity however in most cases the supply will be 3 phase.

2/ Harmonics



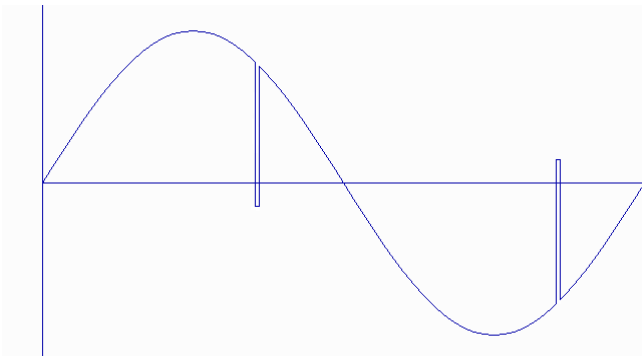
Possible sources of interference

Harmonic voltage distortion is caused by large non-linear loads such as :

Soft Starters (during starting).
Most large variable speed drives.
A large number of computers.

The effect is worse in the case of a weak supply.

3/ Notching

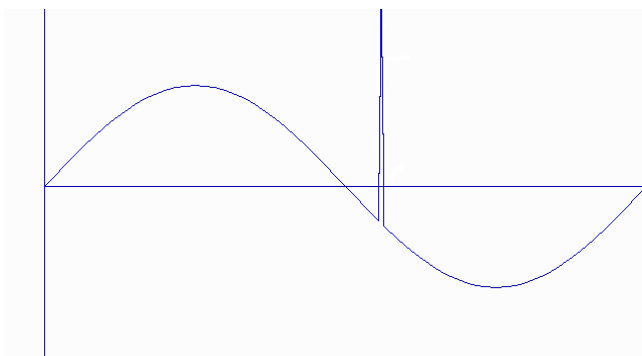


Notching is caused by large thyristor controlled 3 phase rectifiers. These are typically found in :

Large DC drives.
Current source inverters.

Again the effect is worse in the case of a weak supply but will be reduced if line chokes are fitted to the rectifier.

4/ Large Spikes



Large voltage spikes can be caused by switching transients and lightning strikes. Supplies in remote locations may be particularly at risk.