

# CIRCUIT MASTER

## ENERGY SAVING TECHNOLOGY

It has been known throughout industry for quite a number of years that MOV technology can and does help clean up voltage transients from electric supply lines. Most surge suppressors utilizing these components are installed at the main electric service entry panels or disconnects. By shunting the transient/surge activities to ground, electrical waste (in form of excess heat) is reduced thus helping extend the service life of many electrical devices.

The **Circuit Master** is a product which provides surge and lighting protection for homes and businesses as well as many industrial applications. The product covers a wide range of voltage uses from single phase

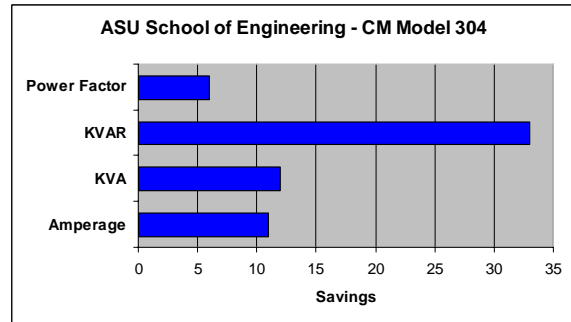


120 vac to three phase 600 vac. Although most industrial applications are rated for three phase 480 vac, all three phase units are rated for voltage to the components at 600 vac. These surge/lighting protection units respond to surge and static electrical events in less than 20 nano seconds, and provide up to 120k amps of line protection at the standard 8/20 u sec rating for three phase and at least 60k amps protection for single phase on the same scale.

What genuinely makes this product different and thus sets it apart from most of the other devices on the market, is a built in line noise filtering "LNF" circuit. This "LNF" circuit helps to balance out the distortions in the wave cycle which causes KVAR's in the harmonic balance associated with inductive loads. This feature in turn helps many computer controlled and state of the electronic equipment to run more reliably. All units connect to electrical panels or disconnects via NEC approved electrical hook apparatus, see install instructions.

The other major components used in **Circuit Master** products are line filter capacitors. These

types of components have been used to improve the power factor and reduce the amount of KVA needed from the utility to run various inductive loads.



The combining of both type components in these Delta Engineered products actually enhances the ability of the overall product performance. That is to say the achieved savings derived from using both MOV, TVSS, and line filter capacitance together in one unit maximizes the energy saving features in real time operations, with results showing anywhere from 5% - 20% or more in monthly electrical savings possible.

**Circuit Master** benefits include:

- Single & Three Phase
- Reduce Amperage
- Filters THD
- Reduce Energy Consumption
- Filters Line Loss
- Prolong Equipment Life
- Reduce KVAR
- Improve Power Factor



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