



## BENEFITS OF USING LINE/LOAD REACTORS

**G**uard-AC line/load reactors help keep your equipment running longer by absorbing many of the power line disturbances which otherwise damage or shut down your inverters, variable speed controllers, or other sensitive equipment. They are the modern technology solution to inverter and drive application problems. Guard-AC reactors are harmonic compensated to assure optimum performance in the presence of harmonics. They are very effective at reducing harmonics produced by inverters and drives, and in most cases will help you to meet IEEE 519. Use our harmonic compensated reactors on either the input or output of an adjustable speed drive/inverter. There is no need to de-rate our "harmonic compensated" reactors for harmonics.

Guard-AC reactors are manufactured to the exacting standards of MIL-I-45208, VDE-0550, are UL recognized and CSA certified.

- **UL File #E53094 (1 amp through 250 amps)**
- **CSA File #LR29753-13 (250 amps or less)**

All higher current reactors offer UL recognized insulation systems and construction.

## IMPEDANCE RATINGS

**3% IMPEDANCE** reactors are typically sufficient to absorb power line spikes and motor current surges. They will prevent nuisance tripping of drives or circuit breakers in most applications.

**5% IMPEDANCE** reactors are best for reducing harmonic currents and frequencies. Use them when you must comply with IEEE 519, to reduce motor operating temperature, or to reduce motor noise.

- VIRTUALLY ELIMINATE NUISANCE TRIPPING
- EXTEND SEMICONDUCTOR LIFE
- REDUCE HARMONIC DISTORTION
- REDUCE SURGE CURRENTS
- REDUCE MOTOR TEMPERATURE
- REDUCE MOTOR AUDIBLE NOISE
- IMPROVE POWER FACTOR
- LIMIT SHORT CIRCUIT CURRENT
- HELPS MEET IEEE 519



## REACTOR MASTER SOFTWARE

This easy-to-use software computes reactor specifications for virtually any adjustable speed drive application. It is capable of making computations for any operating frequency, for both input and output applications, and for any desired impedance.

Reactor Master Software is compatible with any DOS system and is a color program but runs on monochrome monitors as well. It is available on either 3 1/2 inch or 5 1/4 inch floppy disks.

DESCRIPTION	CATALOG NO.
3 1/2" Floppy Disk	RMS-3
5 1/4" Floppy Disk	RMS-5