

## AC Line Reactors



Protect your sensitive equipment from harmful line disturbances with Acme AC Line Reactors. AC Line Reactors help prevent equipment failure and downtime, and can add years to the life of your equipment.

Designed to protect DC motor drives, AC variable frequency drives and the motors they power. AC Line Reactors allow Acme to augment the Drive Isolation Transformer package to offer both line and load power quality protection for a wide range of applications.

Our product line features flexible design and ease of installation for use in a variety of applications such as paper machines, process lines, press controls and drive systems, along with tube mills and other sophisticated process equipment. These applications are found in such industries as food and beverage, paper, packaging systems and printing.

### FEATURES

- Gapped iron core inductor—designed for optimum performance while providing harmonics compensation.
- Precision wound copper coils—maximum protection from short-circuiting.
- Finger-safe terminal blocks (up to 60 HP).
- Compact design—allows for more flexible installation.
- Amperage ratings of 2 to 600 amps
- Available in 3% and 5% impedance
- Can be used with 208, 240, 480 and 600 volts.
- Covered under Acme's famous 10-year limited warranty.
- UR and cUR Recognized.
- CE Marked (up to 55 amps)

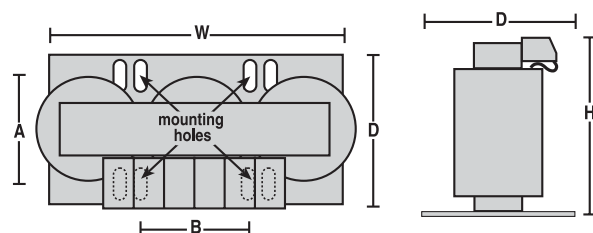
### BENEFITS

Protect your motors and motor drives from a variety of power conditioning problems while realizing the following benefits:

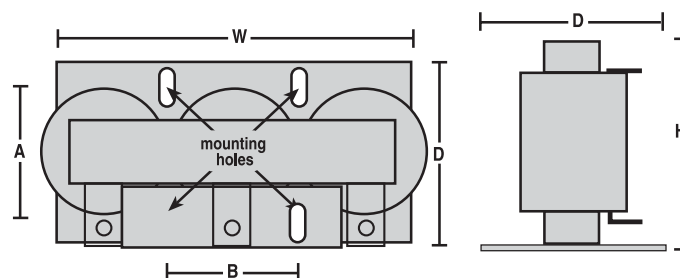
- Protection from damaging voltage drop.
- Elimination of nuisance tripping of drives or circuit breakers.
- Reduction of motor current surges and power line spike currents.
- Improvement in true power factor of capacitor input drives.
- Cooler, quieter operation.
- Reduction of harmonic distortion.
- Longer life for motors and solid state components.

## AC LINE REACTORS DIMENSIONAL DRAWINGS

1-60 HP; 2-80 Amp

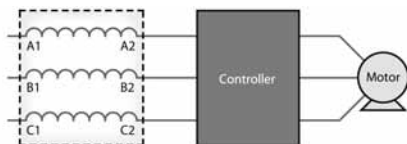


75-500 HP; 110-600 Amp



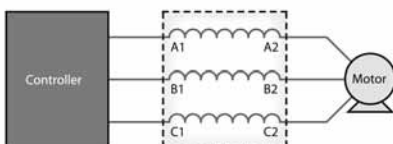
## Applying Acme AC Line Reactors

Acme's three-phase AC Line Reactors can be used as an input filter for adjustable speed DC drives and as input or output filters for AC pulse width modulated variable frequency drives. They are bi-directional protective filtering devices and can be applied in a variety of configurations.



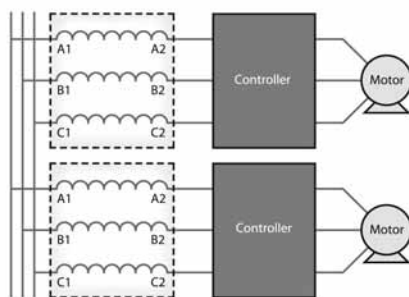
### Input to Inverter/Drive

AC Line Reactors protect your sensitive equipment from noise generated by the drive or inverter. They protect the controller from power surges, spikes and harmonic distortion.



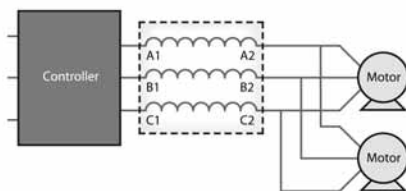
### Output of Inverter/Drive

Motors run cooler and quieter with an AC Line Reactor placed between the inverter and motor. This application also reduces dv/dt and protects the controller from short circuits and surges.



### Multiple Controllers on a Single Power Line

Each drive or inverter on a single power line requires its own AC Line Reactor in order to provide adequate surge protection, prevent crosstalk and reduce harmonic distortion.



### Multiple Motors Controlled by a Single Drive

Multiple motors controlled by a single drive require only one AC Line Reactor between the controller and motors.

