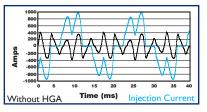
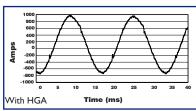


# Harmonic Solutions

#### HarmonicGuard® Active (HGA) Filter

- Save money and space: a single bus-applied HGA can correct harmonics for multiple loads
- Reduce current harmonic distortion to less than 5% allowing you to meet IEEE-519 specifications
- Easily monitor performance & remotely control the HGA with one of our communications options
- Patented Master Master operation allows multiple filters to run in a more robust closed-loop mode

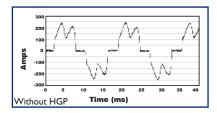


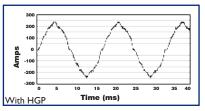




### HarmonicGuard® Passive (HGP) Filter

- Meets IEEE-519 requirements by limiting current harmonic distortion to less than 5% with background voltage distortion as high as 5%
- Internal fusing prevents capacitor damage
- 100kA SCCR simplifies system acceptance
- Available with a wide range of options to suit any application
- Generator compatible

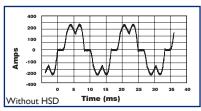


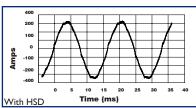




### HarmonicShield® (HSD) Filter

- The HarmonicShield is TCI's newest addition to our passive harmonic filter line.
- 5% iTHD Performance over a wide load range
- UL 508 Listed
- Available in UL Type 1 and Type 3R package
- 480V and 600V, up to 600 HP
- Optional contactor
- Available with or without lugs







#### **KDR/KLR Line Reactor**

- Extend your drive uptime by reducing the likelihood of the drive tripping
- Protect other equipment on the same bus from operational issues caused by voltage distortion
- Reduce overheating issues due to harmonic currents





### Power Factor Correction

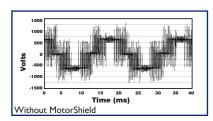
#### PF Guard™ Capacitor Bank

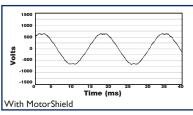
- Automatic Cap Bank prevents leading power factor and reduces apparant power drawn from the utility
- Returns power factor to near unity
- Includes a detuning reactor to mitigate resonance issues

# Motor Protection Solutions

#### **MotorShield™ Sinewave Output Filter** (for cable leads up to approximately 15,000 ft.)

- Protect your motor and cable runs by reduction of vibration and heat to improve system performance
- Protects older and non inverter duty motors from the harmful effects of voltage spikes caused by **VFDs**
- Reduce audible motor noise
- Ideal for protecting lead insulation in downhole pumping applications



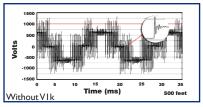


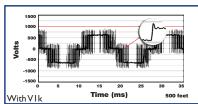


#### VIk dv/dt Output Filter

(for cable leads up to approximately 1,500 ft.)

- Extend the life of your motor and cable by reduction of harmful voltage spikes due to dv/dt
- Protect cable runs and reduce motor heating, noise and vibration
- Prevent motor failure with protection against motor insulation breakdown







# High Frequency Noise Solutions

#### **KRF EMC Filter**

**USA** 

- Filter EMI/RFI noise caused by power switching devices
- Prevent interference between automated lighting circuits, security cameras, and other critical electronics on your system





W132 N10611 Grant Drive Toll Free: 800-824-8282 Part #27865 www.transcoil.com Germantown.WI 53022

F:

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