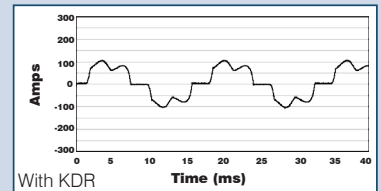
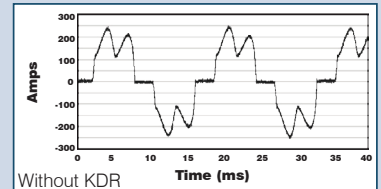
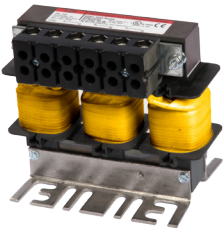


Harmonic Solutions

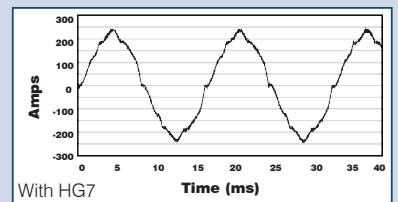
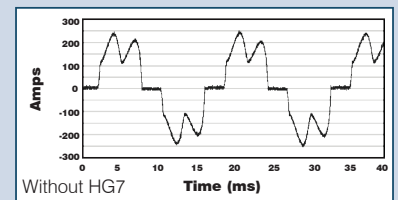
KDR/KLR Line Reactor

- Reduces harmonics to 35 - 40%; adds impedance (opposition to flow of current) to the line
 - Sized by voltage, HP rating of drive and desired impedance
 - Offered in 3-phase; 208 - 690 volt; open or enclosed, DIN-Rail; input and output
-
- Protects the drive from over voltage problems caused by transients and surges (voltage spikes)



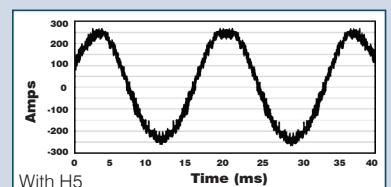
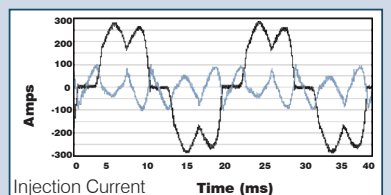
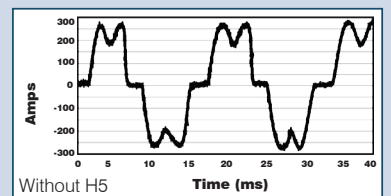
HG7 Passive Harmonic Filter

- Drive-applied filter reduces harmonics to 5 - 8% TDD
- Used to meet IEEE-519 specification and improve power factor and overall efficiency of the system
- Sized by voltage and HP rating of drive
- Offered in 3-phase or 1-phase; 600 volt and below; open or enclosed; standard, contactor, or XM package



H5 Active Harmonic Filter

- System-applied
- Reduce harmonics to 5% TDD and below
- Reads harmonics on the line and injects a counter current to cancel out harmonics
- Used for multiple 6 pulse VFD applications to meet IEEE-519 specifications
- Improves power factor and overall efficiency of the system
- Sized by corrective current; need one line diagram to size
- Offered in 3-phase; 480 volt applications; open or enclosed; 50/100/175/225 amp units available





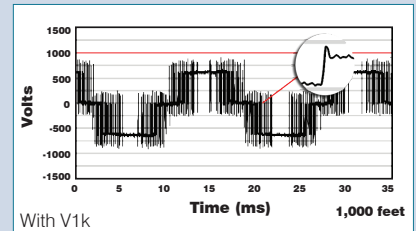
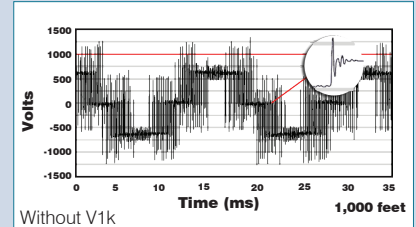
Reliable // Advanced Power Quality

Motor Protection Solutions

V1k dv/dt Output Filter



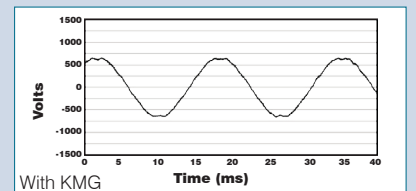
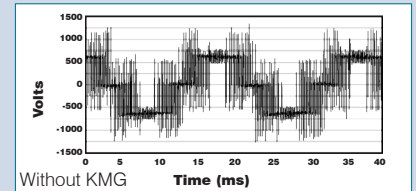
- Limits voltage spikes below 1,000 volts for long lead applications
- Greatly extends the life of the motor and cable
- Specific applications can reach 3,000 ft.
- 30% reduction in Common Mode Current
- Sized by FLA of motor
- Offered in 3-phase; 600 volt and below; open or enclosed; Standard and EX versions



KMG Sinewave Filter



- Eliminates harmful dv/dt to result in sinewave
- Allows NEMA MG1 Part 30 motors to be used where Part 31 motors would be required
- Greatly extend motor and cable life by reduction of motor noise, vibration and heat
- Specific applications can reach 15,000 ft.
- Sized by FLA of motor
- Offered in 3-phase; 600 volt and below; open or enclosed



High Frequency Noise Solutions

KRF EMC Filter



- Limits high frequency noise (EMI/RFI) in the critical 150 kHz to 30 MHz frequency range
- Reduces interference
- Protects sensitive equipment
- Meet FCC Regulation 15, Subpart J
- Sized by input current of VFD
- Offered in 3-phase; 8 - 2,500 Amps; 760 volt and below

