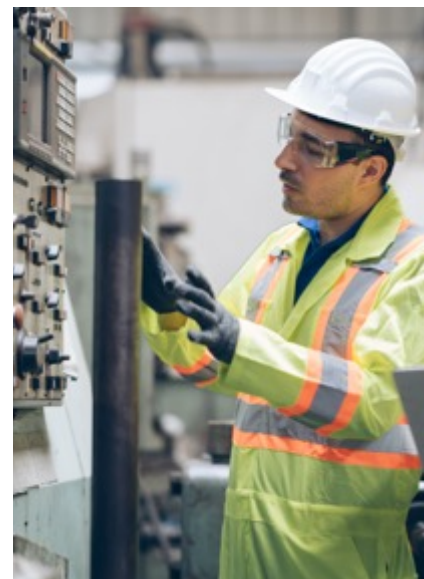


# Protect your facility from poor power quality

## Electric power system disturbances create many problems in your facility

Increased usage of VFDs leads to increased harmonic disturbances in electrical power systems. These harmonic distortions can cause damage to motors and create mechanical downtime. TCI's array of products work alongside Rockwell Automation drives to provide the best power quality and meet IEEE-519 compliance for electrical systems.



### TCI power quality solutions

TCI's active and passive harmonic filters limit current distortion to less than 5% total demand distortion (TDD) at low loads. All TCI harmonic filters meet the requirements of IEEE- 519-2014.

TCI's dV/dt and sine wave filters protect motors from harmful voltage spikes caused by VFDs.



#### Less than 5% total demand distortion (TDD) at low loads

The HGA active filter is a bus applied filter that injects a counter-current to cancel out harmonics and synchronize the current and voltage waveforms to achieve less than 5% TDD.

The HGP passive filter is a drive applied filter with robust components to achieve less than 5% TDD.

#### Key takeaways

- Achieve less than 5% TDD
- Bus applied or drive applied solutions



#### Meets IEEE-519 2014 compliance

The goal of IEEE-519 2014 is to maintain the voltage THD within acceptable limits at the Point of Common Coupling (PCC) between the utility and the user and protect the user and utility equipment from the negative impact of harmonics.

#### Key takeaway

- HGA and HGP/L filters meet guidelines for IEEE-519 2014 compliance



#### UL Listed parts and enclosures

All TCI products follow the stringent requirements necessary to be classified as UL Listed.

#### Key takeaway

- UL Listed enclosures and solutions available

## List of products or product families within the portfolio

- HarmonicGuard Active (HGA)
- HarmonicGuard Passive (HGP)
- HarmonicGuard Low Capacitance (HGL)
- HarmonicShield (HSD)
- KDR Line Reactors
- V1K dV/dt
- MotorGuard (KMG) / MotorShield (MSD) Sine Wave Filters
- PF Guard Capacitor Bank
- KRF EMI Filter

## Industries we support


- Oil & Gas
- Water/Wastewater
- HVACR
- Industrial
- Agriculture/Irrigation
- Food & Beverage
- Data Centers
- Mining
- Pulp & Paper

## About us

TCl is a premier supplier of active and passive products to resolve power quality and harmonic issues associated with industrial power conversion. TCl's experienced engineers specialize in developing optimal solutions to achieve IEEE-519 compliance and enhanced motor protection.

### [Rockwell Automation Partner Locator](#)

## Regional support and contact information

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SALES SUPPORT				414.357.4540
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