

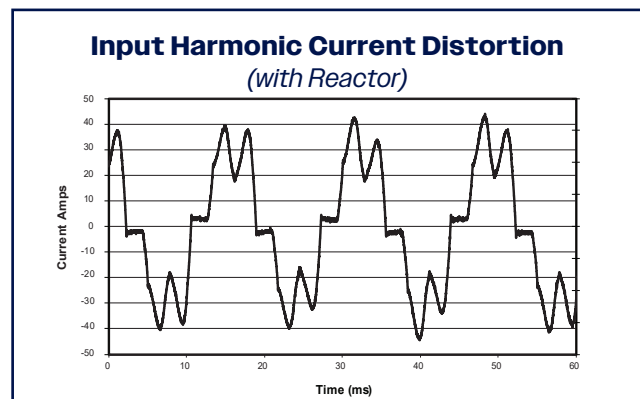
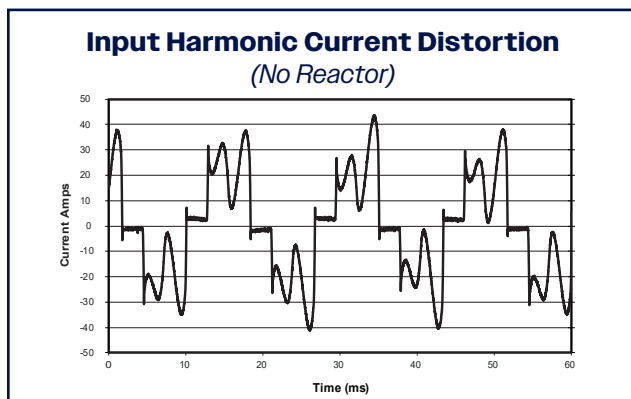
# Optimized Line Reactor Offerings

## KDR & KLR Line & Load Reactor Product Families

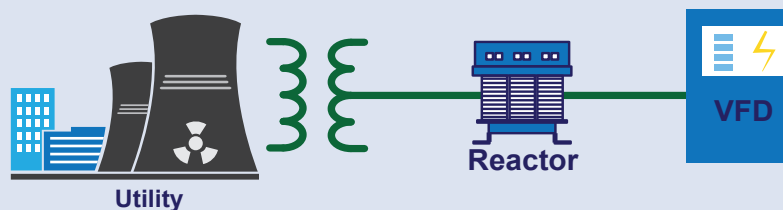
TCI's line reactors are electrical components that help to protect 6-pulse rectifiers and power conversion devices such as variable frequency drives (VFDs). When used in conjunction with a VFD, a KDR line reactor can help reduce harmonics and protect the drive from harmful voltage spikes. KDR line reactors are recommended on the input of each VFD in multiple drive applications.

### FEATURES:

- Helps to meet IEEE-519 2022 requirements
- Full range of voltage options
- 1/4 HP - 1250 HP
- Available in Ultra Low, Low, and High Impedance applications
- Strong durable design specifically for VFD applications
- Drive Lifetime Warranty
- UL Listed
- Made in the USA

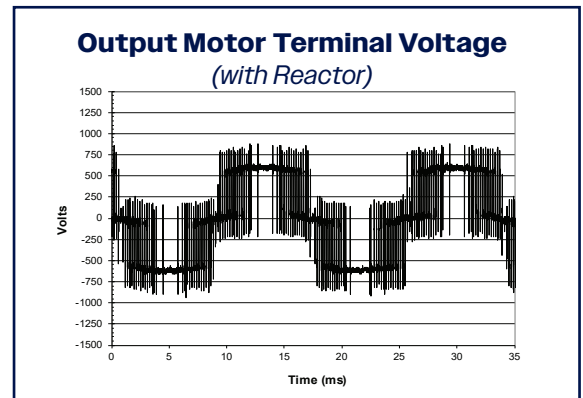
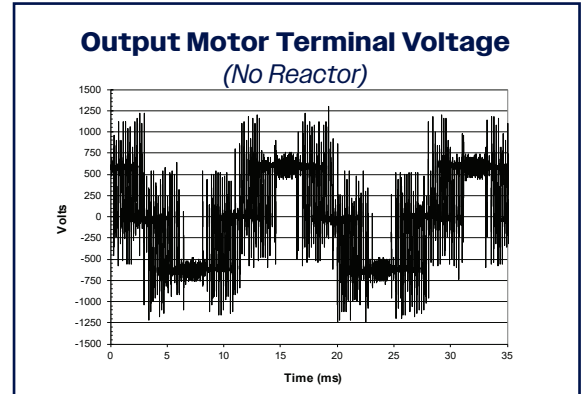


### TCI REACTORS ON INPUT SIDE OF VFD:



# Technical Specifications

|                                      |   |
|--------------------------------------|---|
| Voltage                              | 208 - 690 VAC   |
| Frequency                            | 50 & 60 Hz  |
| Power Rating                         | 1/4 - 1250 HP   |
| Impedance (Z)                        | Ultra Low, Low, High Impedance                                |
| Short Term Overload Rating (Amps)    | Tolerate 200% rated I for a maximum of 3 minutes per hour     |
| Inductance Characteristics (L)       | Minimum 95% L at 110% Load; Minimum 80% L at 150% Load        |
| Enclosure Options                    | Open, UL Type 1, NEMA 1, UL Type 3R                           |
| <b>Environmental Conditions</b>      |   |
| Ambient Temperature                  | 40°C/50°C (105°F/122°F) Open or equivalent                    |
|                                      | 40°C (104°F) Enclosed   |
| Operating Altitude                   | Up to 2,000 m (6,000 ft) without derating                     |
| <b>Reference Technical Standards</b> |   |
| Agency Approvals                     | cULus, CE Marked  |
| Warranty                             | For the life of the drive with which the reactor is installed |



## OUTPUT OF A VFD:

KDR and KLR reactors are constructed with durability in mind and can be used on both the input and output of a VFD. When used on the output of a drive, KDR and KLR reactors reduce voltage distortion at the motor terminals extending the service life and minimizing insulation stress on any motor.



## APPLICABLE ACROSS INDUSTRIES:



Conveyors



HVAC/R chiller systems



Water/wastewater pump systems



Sprinkler & irrigation pumps



Oil Rigs