

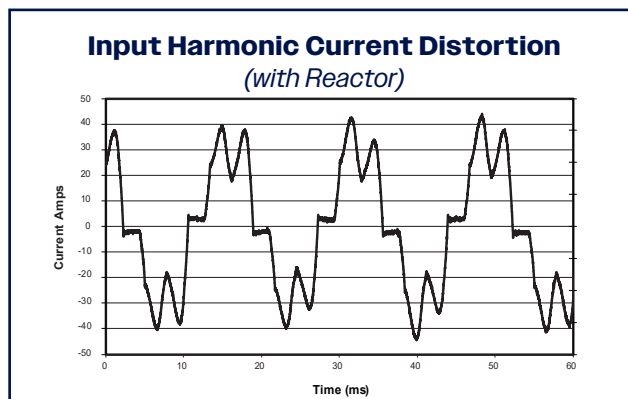
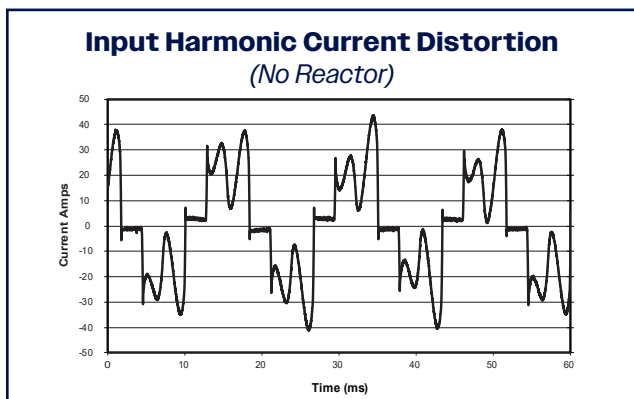
Optimized Line Reactor Offerings

KDR & KLR Line & Load Reactor Product Families

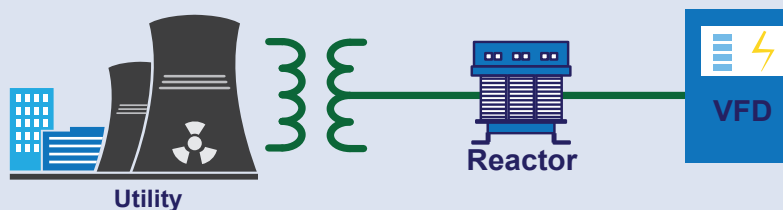
TCI's line reactors are electrical components that help to protect 6-pulse rectifiers and power conversion devices such as variable frequency drives (VFDs). When used in conjunction with a VFD, a KDR line reactor can help reduce harmonics and protect the drive from harmful voltage spikes. KDR line reactors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



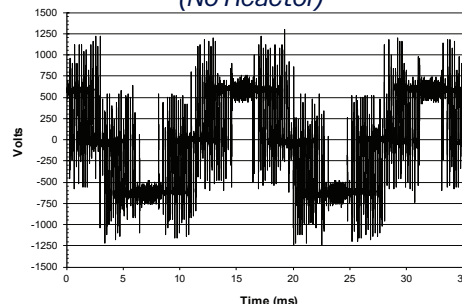
TCI REACTORS ON INPUT SIDE OF VFD:



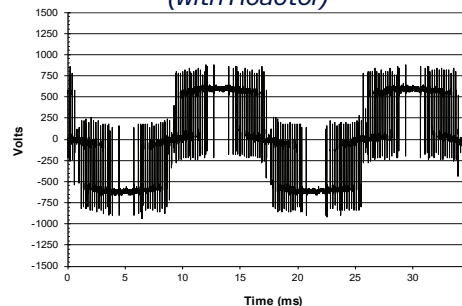
Technical Specifications

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
Environmental Conditions	
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
Reference Technical Standards	
Agency Approvals	cULus, CE Marked
Warranty	For the life of the drive with which the reactor is installed

**Output Motor Terminal Voltage
(No Reactor)**



**Output Motor Terminal Voltage
(with Reactor)**



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