



OPTIMIZED LINE REACTORS



KDR 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.

Output of a VFD

KDR 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 reactors reduce voltage distortion at the motor terminals extending the service life and minimizing insulation stress of any motor.

Benefits of KDR Line Reactors:

- Helps to meet IEEE 519-2014 requirements
- 208 V-690 V; 0.25HP-1250HP
- Available in Ultra Low, Low and High Impedance
- Strong durable design specifically for VFD applications
- Drive Lifetime Warranty
- UL Listed
- Made in the USA
- Same Day Shipping

Typical Applications with VFDs

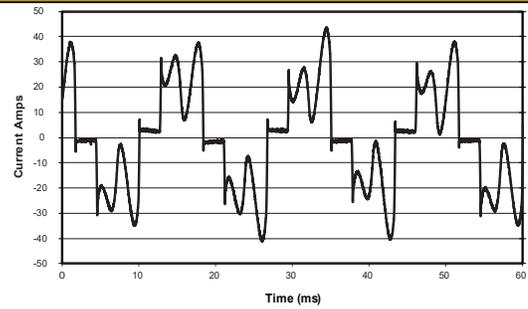
- HVAC Chillers
- Pumps
- Oil rigs
- Conveyors
- Sprinkler irrigation systems



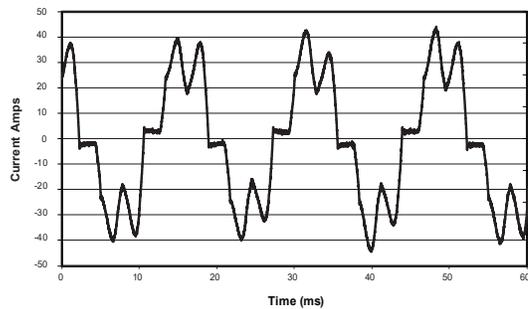
Technical Specifications

| | |
|-------------------------------|---|
| Voltage | 208 - 690 VAC |
| Frequency | 50/60 Hz |
| Power Rating* | 0.25 - 1250 HP |
| Impedance | Ultra Low, Low, High Impedance |
| Short Term Overload Rating | Tolerate 200% rated I for a maximum of 3 minutes |
| Inductance Characteristics | Minimum 95% L at 110% Load |
| | Minimum 80% L at 150% Load |
| Environmental Conditions | |
| Ambient Temperature | -40°C to 40°C enclosed |
| | Enclosed: 40° C (104° F) |
| Operating Altitude | Up to 2,000 m (6,000 ft) without derating |
| Reference Technical Standards | |
| Agency Approvals | cULus |
| Warranty | For the life of the drive with which the reactor is installed |

Input Harmonic Current Distortion- No Reactor



Input Harmonic Current Distortion- with KDR



Part Numbering

KDR AA 3 L 2 E01

KDR Series: _____

Design Frame: _____

Sequence Code: _____

Impedance Rating: _____

P - Ultra Low Impedance
L - Low Impedance
H - High Impedance

Foot: _____

(Blank if not MA/AA)

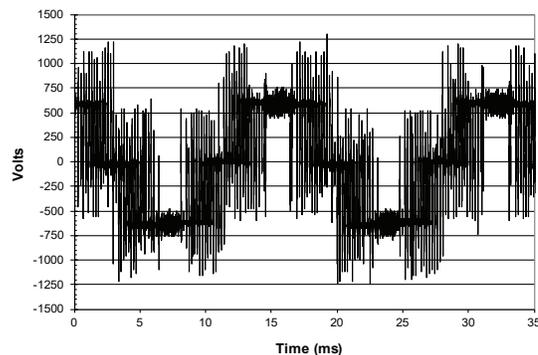
1 - Side
2 - Thin

Enclosure: _____

E01 - UL Type 1
E3R - UL Type 3R
E3R1 - UL Type 3R (MA/AA)
C1 - NEMA 1 (MA/AA)

*May vary based on voltage

Output Motor Terminal Voltage- No Reactor



Output Motor Terminal Voltage- with KDR

