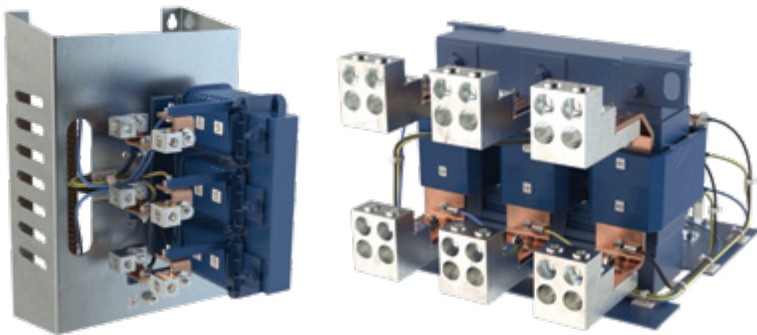


dV/dt Filters dV E-Series

The ideal dV/dt solution for essential motor protection.



- **Triple Protection:** Reflective wave mitigation, rise time reduction, and peak voltage production
- **Efficient:** Low watts (heat) loss
- **Size-optimized design:** Lightweight and compact form factor
- **Ease of installation:** Footprint and mounting compatible with competitive options
- **Silent operation:** As quiet as a conversation

Complete protection; convenient design.

Downtime in any operation comes at a cost. Damage to motor windings and premature motor insulation failure can result in lost revenue and safety concerns. MTE's dV E-Series dV/dt motor protection filters ensure your operation runs smoothly during your most critical times. The dV E-Series delivers premium motor protection, extends cable life, and is backed by MTE's industry-leading Performance Guarantee.

Compared to the competition, the dV E-Series offers similar electrical performance in a more compact and optimized design:

- **Up to 60% more efficient**
Saves money & runs cooler
- **Up to 73% lighter and 35% smaller footprint**
Convenient setup and handling

The dV E-Series is all the protection you need and nothing that you don't.

The dV E-Series delivers premium protection in a convenient package.



A proven filter that provides TRIPLE PROTECTION, by eliminating reflective waves, providing peak voltage protection, as well as, rise time reduction for any application out to 1,000 feet of cable.

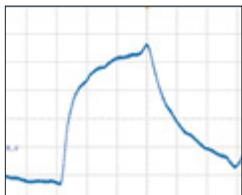
Reflective wave mitigation matches the impedance of the cable and prevents voltage pulses from reflecting and causing higher peak voltage.

Rise time reduction lowers motor heating, and meets NEMA MG 1-1998 Section 31 motor standards.

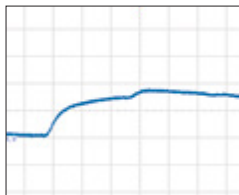
Peak voltage protection when voltage spikes reach dangerous levels.

Includes Three-Year Warranty

Peak Rise Protection:

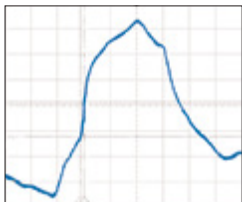


Without dV E-Series

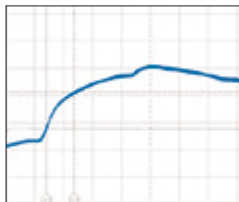


With dV E-Series

Rise Time Reduction:

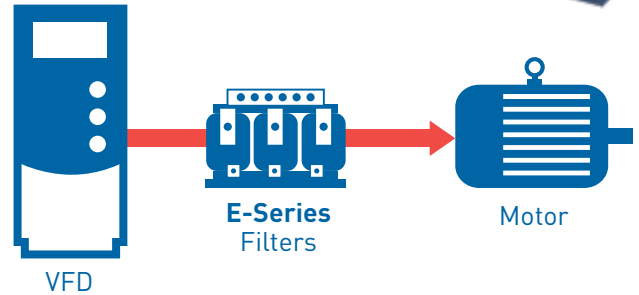
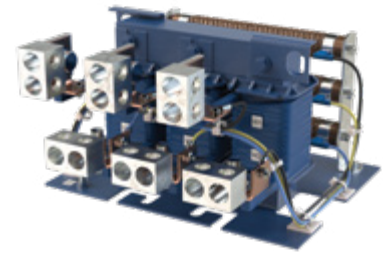


Without dV E-Series



With dV E-Series

dV E-Series



Performance Specifications

Service Load Condition	Inverter Duty Three Phase Motors
Voltage	208 – 600 VAC +/- 10%, 60Hz
Input Voltage Wave Form	PWM
Inverter Switching Frequency	2kHz – 4kHz (3A – 750A)
Inverter Operating Frequency	0-60Hz without derating
Maximum Ambient Temperature	-40C to +60C modular filter -40C to +50C enclosed filter -40C to +90C Storage
Insulation System	Class N (200° C)
Insertion Loss (Voltage)	1.7% at 60 Hz
Efficiency	>99%
Current Range	3A – 750A
Available Form Factors	Kit, Open Panel, NEMA 1/2, NEMA 3R
Altitude without derating	6,600 feet above sea level
Maximum Motor Lead Length	1,000 feet (VFD rated cable recommended)
Relative Humidity	0% to 99% non-condensing
Current Rating	100% RMS Continuous 150% for 1 minute 200% for 10 seconds <small>*Operating in overload will result in increased proportional voltage drop</small>
Audible Noise	<65db at 1 meter
Rise Time	Greater than 0.1 uS
Peak Voltage @ Motor	150% of DC bus voltage up to 1,000 feet

Final product specifications subject to change at anytime.

DV E-SERIES PERFORMANCE GUARANTEE

MTE Corporation guarantees that the peak voltage at the input of the motor terminals will be limited to 150% when the following conditions are met:

- The appropriate size dV E-Series filter is selected and installed in a variable torque AC variable frequency drive application.
- Published system limits are adhered to.
- Wire lead length does not exceed 1,000 ft.
- Carrier frequency is 4 kHz.



MTE Corporation
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