

# AEGIS Series line filters and surge protectors



*Electronic equipment protection for reliable operations*

## Introduction

### **AEGIS delivers a higher level of system protection**

Eaton AEGIS™ Series line filters and surge protectors are specifically designed to protect sensitive electronics from hazards that exist within a facility. The AEGIS Series hybrid filter reacts instantly to changes in voltage regardless of phase angle or polarity. In comparison to other line filters, this technology provides a higher level of suppression, reliability, and life expectancy.

### **Increasing importance of surge protection and line filtering**

PLC manufacturers and service technicians recommend the use of power line filters and surge suppressors to prevent downtime and equipment damage due to surges and electrical line noise. Studies have shown that failure to protect sensitive electronic loads costs American manufacturing and commercial and service industries over \$39 billion per year in lost time and revenue. Preventing these losses is a major cost-saving opportunity.

## Features, benefits, and functions

AEGIS Series line filters and surge protectors protect against the full spectrum of transient disturbances and are engineered to filter the entire sine wave. As a result, AEGIS devices are effective against both low- and high-energy transients to prevent immediate equipment damage and microprocessor failure over time.

- Compact design with multiple mounting options
- Meets new UL® safety standards for surge and filtering protection
- A range of surge current capacity ratings for a variety of applications
- Range of models with different levels of filtering, allowing flexibility for each application
- Contains no replaceable parts or items that require periodic maintenance

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## Applications

By providing surge protection and line filtering, AEGIS devices can suppress the noise and transients prevalent throughout the power distribution system to support reliable operations in applications including:

- Instrumentation
- Water treatment facilities
- Pulp and paper operations
- Refrigeration and heating plants
- Petrochemical and refinery installations
- Food processing
- Textiles
- Automotive assembly
- Manufacturing operations

No matter where transients originate, the application of AEGIS Series devices throughout a facility will help protect sensitive electronic equipment including:

- Programmable logic controllers (PLCs)
- Scanning devices
- Automatic teller machines (ATMs)
- Cash registers
- Alarm systems
- Microprocessor-controlled
- OEM products
- Robotics
- CAD/CAM systems
- Control equipment
- Medical electronics and devices

AEGIS Series devices are available in common voltages and configurations, and also in a variety of surge current capacity ratings from 20 to 80 kA at 120 Vac.

## Standards and certifications

- UL 1449 Fourth Edition
- UL 1283 Fifth Edition
- IEC 61000-4.5
- Built in an ISO® 9001 facility
- Designed and tested in accordance with:
  - IEEE® C62.41.1
  - IEEE C62.41.2
  - IEEE C62.43-2005
  - IEEE C62.45-2002
  - IEEE C62.48-2005
  - IEEE C62.62-2010

## Feature package options

### AEGIS PH and PV

The AEGIS Series PH and PV devices are the high-performance line filters in the new line, offering the best EMI/RFI filtering and lowest VPR ratings.

The AEGIS Series PH and PV devices can be used where:

- The lowest let-through voltage (VPR) is desired
- The best filtering of electromagnetic interference (EMI) and radio frequency interference (RFI) is needed
- The longest equipment life and lowest maintenance cost is required
- The value of the equipment protected or process controlled is highest
- 120 or 240 Vac circuits up to 20 A are to be protected