SURGE PROTECTIVE DEVICES
Protecting Your Business from Downtime and Data Loss

Surges can occur in any facility and according to the National Electrical Manufacturers Association, 80% of all surges originate inside facilities.

THE NATIONAL ELECTRICAL CODE REQUIRES SURGE PROTECTION IN:

- EMERGENCY SYSTEMS
- ELEVATORS & ESCALATORS
- WIND ELECTRIC SYSTEMS
- INDUSTRIAL MACHINERY
- FIRE PUMP CONTROLLERS

TYPE OF SURGE PROTECTION
Use Type 1, 2, and 3 SPDs for the best level of protection.

**Type 1**
Permanently connected Surge Protective Device. Protects against external and internal surges. May be installed inside or outside the facility.

**Type 2**
Permanently connected Surge Protective Device installed in, or next to, main panel. Protects against internal and external surges.

**Type 3**
Point of use Surge Protective Device. Provides limited protection to devices plugged directly to SPD.

Extra Protection

SURGE PROTECTIVE DEVICES PROTECT AGAINST:

- EQUIPMENT DAMAGE
- EQUIPMENT DOWNTIME
- LOST REVENUE
- PRODUCTIVITY LOSS

The following can be damaged by surge and should have a level of surge protection to prevent damage, downtime, and lost revenue.

**COMMERCIAL**
- LIGHTING CIRCUITS
- BACKUP POWER
- METERING
- UNINTERRUPTIBLE POWER SUPPLY
- MEDICAL EQUIPMENT
- HVAC EQUIPMENT
- CRITICAL LOADS

**INDUSTRIAL**
- POWER DISTRIBUTION
- CONTROL CABINETS
- ELECTRONIC MOTOR CONTROLLERS
- EQUIPMENT MONITORING
- PROGRAMMABLE LOGIC CONTROLLERS