SURGE PROTECTIVE DEVICES
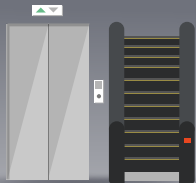## Protecting Your Business from Downtime and Data Loss

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

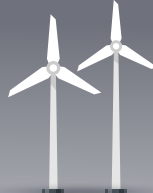## THE NATIONAL ELECTRICAL CODE REQUIRES SURGE PROTECTION IN:

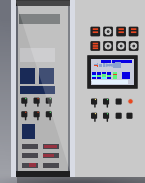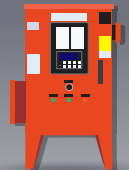**EXIT**

| 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.
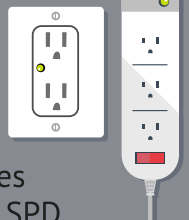
TYPE 1 SPD SP1

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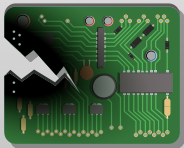
Extra Protection

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

SURGE PROTECTIVE DEVICES PROTECT AGAINST:

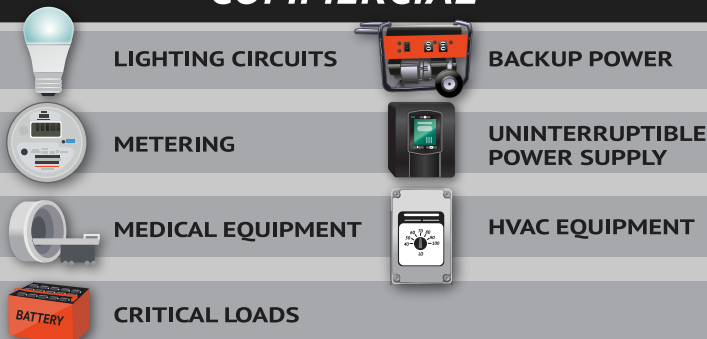| EQUIPMENT DAMAGE | EQUIPMENT DOWNTIME | LOST REVENUE | PRODUCTIVITY LOSS |

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

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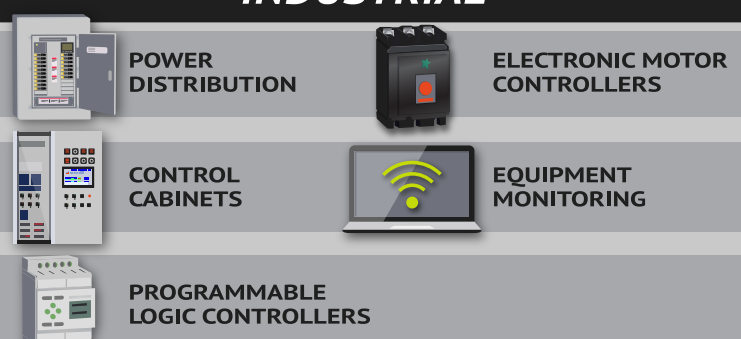
- LIGHTING CIRCUITS
- METERING
- MEDICAL EQUIPMENT
- CRITICAL LOADS
- BACKUP POWER
- UNINTERRUPTIBLE POWER SUPPLY
- HVAC EQUIPMENT

BATTERY

INDUSTRIAL

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

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