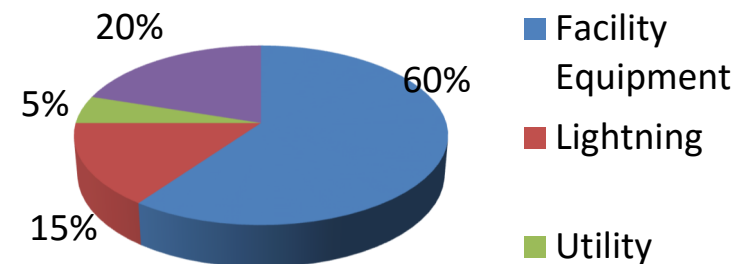


# Surge-Trap Surge Protectors



# Voltage Surge & Damages

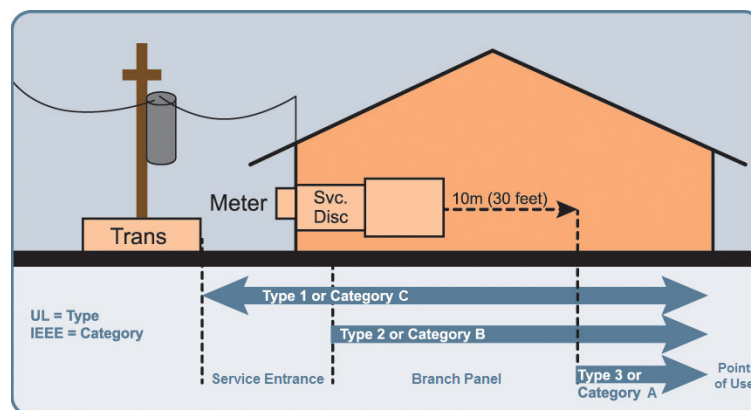
- Surges can originate from inside or outside a facility
  - 60-80% of Surges originate from within the facility
    - Motors Turning On/Off
    - Lighting Loads On/Off
- Surge Damages
  - Degrades equipment life
  - Disrupt system function
  - Immediate equipment destruction



# Surge Protection Questions

- What is Surge Protection?
  - A surge protective device is designed to protect electrical devices from voltage spikes. An “SPD” limits the voltage supplied to an electronic device by either blocking or shorting to ground any unwanted voltages above a safe threshold.
- More Importantly, Why do I need it?
  - Think of surge protection as an inexpensive insurance policy.
- Why Mersen?
  - Mersen pioneered the safety aspect of overvoltage protection with their patented TPMOV technology, seen [here](http://www.youtube.com/watch?v=p86t-uuyMAE) (www.youtube.com/watch?v=p86t-uuyMAE)

# Application Locations According to IEEE and UL



IEEE Location Category	Category C	Category B	Category A
Definition	Designed for use in incoming power supply panels where the risk of lightning strike is high	Designed for use in distribution panels located downstream of location Category C or in areas with low exposure to lightning strikes	Always installed > 20m downstream of Category B protection systems designed to protect sensitive equipment
Applications	Outside overhead lines and service entrance	Feeders, short branch circuits, and indoor service panels	Outlets/receptacles, long branch circuits
ANSI/UL 1449 Type Designations	Type 1	Type 2	Type 3
Mersen Surge-Trap® series	STZ		
	STX		
	ST and STP		
		STLB	

# STXH Series Product Features and Benefits

## 50kA

Surge Capacity

## Up to 3 Modes of Protection

L1-N, L2-N, L1-L2



1/2" threaded hub with sealing lock washer. Pre-wired 18" 10AWG

## LED Status Indicator

Visual LED Status Indicator  
(ON = Protected, OFF = Replace)

## 3-Year

Warranty



Consumer packaging for distributor over-the-counter sales



Ideal for residential and HVAC  
(designed to mate with ACD)  
**Only available in 120/240V**

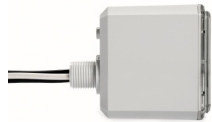
# STXR Series Product Features and Benefits

## 50kA

Surge Capacity

### Up to 10 Modes of Protection

L1-N, L2-N, L3-N, L1-G, L2-G, L3-G, L1-L2, L1-L3, L2-L3, N-G



3/4" threaded hub with lock washer. Pre-wired 36" 10AWG

### LED and Remote Status Indicators

Visual LED Status Indicator  
Optional Audible Alarm and Dry Contact (NO/NC)

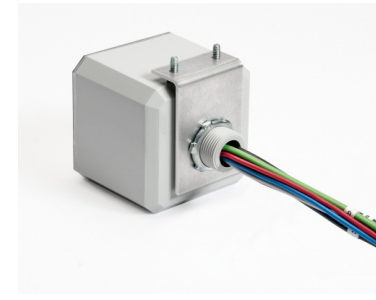
## 5-Year

Warranty



## #1 Seller

The most cost effective solution for customers looking for UL certification, up to 10 modes of protection, all voltage and system configurations and remote indication



Optional mounting bracket  
(no longer included with product)