

### Surge Protective Device

### Technical Documentation



The **ASCO Model 138** are four pair telephone/data line protectors that implement advanced two stage hybrid design. These units address over voltage transients with silicon breakover devices, while sneak and fault currents are mitigated with PTC technology, which consists of solid state resettable fuses.

The ASCO Model 138 incorporates female jacks in and out. The **ANALOG** Model 138 voltage clamp is set for C.O. Trunks and Analog Telephone Extensions (with ring in voltage), and the **DIGITAL** Model 138 voltage clamp is set for Digital Extensions (no ring in voltage).

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### Key Specs

- **Voltage:** 0-220 VDC
- **Current:** 150mA
- **Connection:** Input: female RJ-45  
Output: female RJ-45
- **Mounting:** Flange

\*See Ordering Information for model number selection

General Technical Specifications	
Operating Voltage	48, 220 VDC
Clamping Voltage	55, 280 VDC
Operating Current	0.15 A
Peak Surge Current	200 A (10 x 1000 $\mu$ s)
Frequency Range	0 to 50 MHz
Insertion Loss	< 0.1 dB at 50 MHz
SPD Technology	Silicon Breakover Devices w/ Series PTC
Connection Type	RJ-45 Jacks
Operating Temperature	-40°C to +85°C
Dimensions (in / mm)	1.0" H x 2.5" W x 4.25" L [25.4 x 63.5 x 108 mm]
Weight (oz / kg)	3 oz [0.09 kg]
Certifications	UL 497A, CUL

### Features

- <1 nanosecond response time
- Solid-state resettable fuses — PTCs
- Silicon breakover technology
- Low capacitance
- Line-to-line protection
- Tip & ring to ground protection
- 4 pair protection
- 5 year warranty

#### Caution

Do not place this product in service on any signal line capable of supplying more than 150 mA continuously.

#### Attention

Ne pas placer ce produit dans le service sur une ligne de signal capable de fournir en permanence plus de 150 mA.

### DANGER!

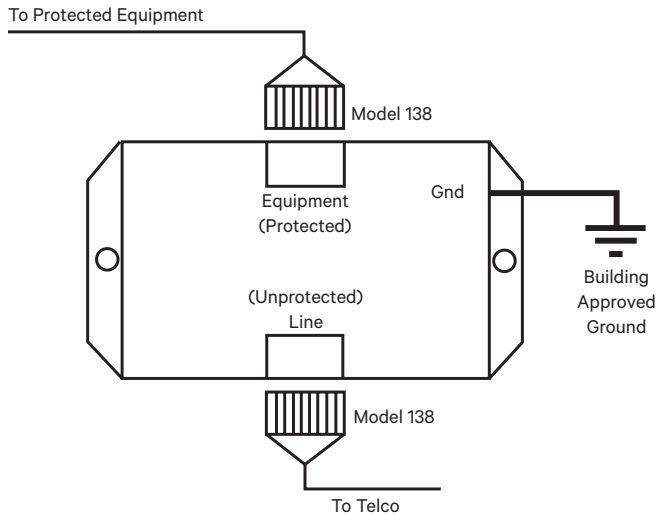
Only qualified personnel should install or service this system. Electrical safety pre-cautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

Seulement le personnel qualifié doit installer ou maintenir ce système. Des précautions de sécurité en électricité doivent être suivies lors de l'installation ou de la maintenance de cet équipement. Pour éviter tout risque de choc électrique, débranchez et verrouillez toutes les sources d'alimentation de cet équipement avant de.

### Certifications

- UL 497A listed
- CAN/CSA C22.2, No. 226-92 compliant

## Installation Instructions



The ASCO Model 138 is intended for indoor use only and shall be employed on the equipment side of a listed primary telephone protector.

## Ordering Information

### MODEL

Former Model Name

### APPLICATION

**138D280S200SRJNO**

Edco RJA-45

Analog Phone

**138D055S200SRJNO**

Edco RJD-45

Digital Phone