



Model 185

Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by ASCO Power Technologies for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Introduction

The **ASCO Model 185** is designed for use with Category 6 Power-Over-Ethernet transmission line applications. The Model 185 limits surges and transients at computers and video equipment.

The Model 185 is available with an isolated ground option to be used at the equipment end in order to help prevent circulating ground currents.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, NOM-029-STPS or CSA Z462.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.
- This equipment must be effectively grounded per all applicable codes. Use an equipment-grounding conductor to connect this equipment to the power system ground.
- Confirm that the Surge Protective Device voltage rating on the module or nameplate label is not less than the operating voltage.
- Do not place this product in service on any line capable of supplying more than 750 mA continuously.

Failure to follow these instructions will result in death or serious injury.



WARNING: This product can expose you to chemicals including DINP, which is known to the State of California to cause cancer, and DIDP which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

NOTICE

LOSS OF SURGE SUPPRESSION

- Make certain that Surge Protective Device is disconnected from the circuit it is protecting before conducting high potential insulation testing.

Failure to follow these instructions can result in equipment damage.

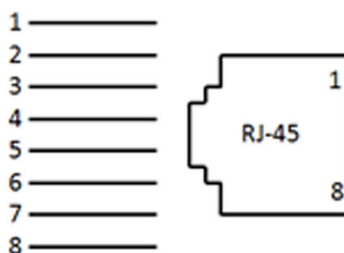
Installation

1. Turn off power to circuit prior to installation.
2. Mount the SPD as close as possible to the equipment. #6 hardware is recommended.
3. Connect a #10 ground wire using a 10-32 ring terminal (not provided) to the SPD ground stud. Connect the opposite end of the wire to a "building approved ground". Keep ground wire as short and straight as possible to maximize performance.
4. Connect the Model 185 supply cable (with RJ-45 connector) to the INPUT side of the SPD.
5. Complete the circuit by connecting the CAT5 cable (provided) from the output of the SPD to the equipment.
6. Apply power to circuit and verify operation.

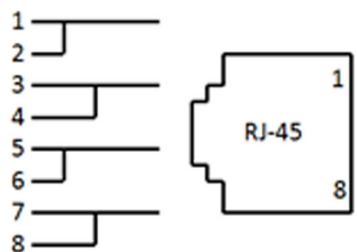
Higher Operating Currents

** For applications requiring higher Operating Currents, input connections can be paralleled to meet the desired rating.*

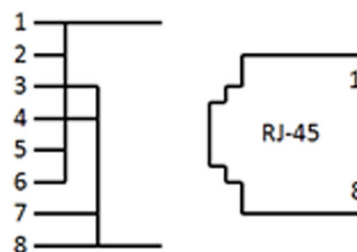
4 Pair – 0.75 A/36W per pin



2 Pair – 1.5 A/72W per pin



1 Pair – 3.0 A/144W per pin



General Technical Specifications

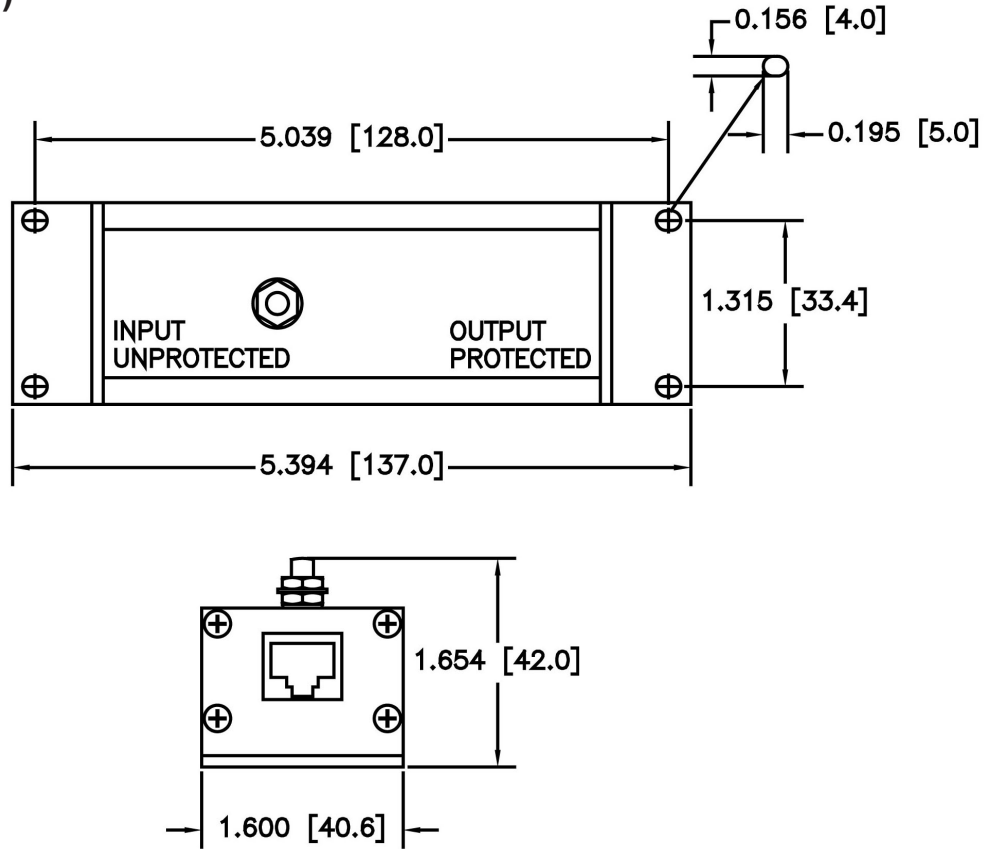
| | 185D068S10KXRJN0 | 185D068S10KXRGN0 |
|-------------------------|---|--------------------------------|
| Operating Voltage | up to 57 VDC | |
| Clamping Voltage | 68 VDC | |
| Operating Current* | 0.75 Amp Per Pin | |
| Peak Surge Current | 10 kA (8 x 20 μ s) Per Pair | |
| Insertion Loss | < 0.1 dB | |
| Topology | Two Port Series | |
| Modes of Protection | All Lines (1-8) Protected (L-L) and (L-G) Signal High-Low; High-Ground; Low-Ground | |
| Transmission Speeds | 10BaseT; 100BaseT; 1000BaseT | |
| SPD Technology | GDT, SAD, Series PTC | |
| Input/Output Connection | RJ-45 Jacks (Shielded) | RJ-45 Jacks (Isolated) |
| CAT 5 Output Cable | Shielded RJ-45, 7 in. (.18M) | Unshielded RJ-45, 7 in. (.18M) |
| Ground Terminal | 10-32 Stud | 10-32 Stud (Isolated) |
| Operating Temperature | -40°C to +85°C (operating current adjusted to 40% @ +85°C) | |
| Operating Humidity | 0-95% Non-Condensing | |
| Material | Aluminum | |
| Mounting | Flange | |
| Weight (oz / g) | 5 oz [142 g] | |
| Certification | UL 497B Listed, Tested to IEC 802.11 (Complies to IEEE 802.3AT and 802.3AF) | |
| Limited Warranty | 5 Year | |

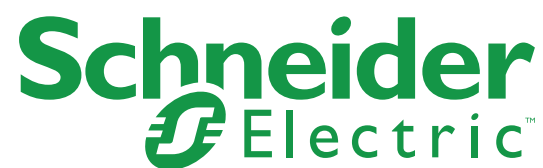
Model Cross Reference

| MODEL <i>Former Model Name</i> | APPLICATION |
|---|---|
| 185D068S10KXRJN0 <i>Edco CAT6-POE</i> | CAT6 Protection |
| 185D068S10KXRGN0 <i>Edco CAT6-POE-I</i> | CAT6 Protection with Isolated Ground |
| ACCESSORIES | |
| C6DIN <i>11604KIT-C6</i> | Single unit DIN Mounting Kit * (Sold Separately) |

**Includes DIN clips and hardware to mount a single unit.*

Dimensions (in. / mm.)





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Franklin, TN 37067

se.com/us/en/work/support
1-888-778-2733

While every precaution has been taken to ensure accuracy and completeness in this literature, Schneider Electric assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

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