ASCO®

100 SERIES
Model 185
(Edco CAT6-POE Series)
CAT6 Power-Over-Ethernet

Surge Protective Device

Technical Documentation

The ***ASCO Model 185*** is designed to work on Category 6 Power-Over-Ethernet transmission line applications and is ideal for protecting expensive computer and video equipment from damaging surges and transients.

Transmission lines provide easy access for transients to enter a facility putting vital equipment at risk. The ASCO 185D068S10KXRGN0 is available with an isolated ground to be used at the equipment end in order to prevent circulating ground currents.

For a multi-channel solution, please see ID-50187 for up to 4 or 8 channels.

General Technical Specifications		
	185D068S10KXRJN0	**185D068S10KXRGN0**
Operating Voltage	0-57 VDC	
Clamping Voltage	68 VDC	
Operating Current*	0.75 Amp Per Pin	
Peak Surge Current	10 kA (8 x 20 µs) 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″ (.18M)	Unshielded RJ-45, 7″ (.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	
Dimensions (in / mm)	7.91″ L x 3.48″ W x 1.89″ H [201 x 88.5 x 48 mm]	
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)	
Warranty	5 Year	

Caution
Do not place this product in service on any signal line capable of supplying more than 0.75 Amps continuously.

Attention
Ne pas placer ce produit dans le service sur une ligne de signal capable de fournir en permanence plus de 0.75 ampères.

**For applications requiring higher Operating Currents, parallel connections can be utilized. See installation information on Page 2.*

Key Specs

- **Voltage:** 0-57 VDC
- **Current:** 750 mA
- **Connection:** Input: female RJ-45
  Output: female RJ-45
- **Mounting:** Flange/DIN

**See Ordering Information for model number selection*

Features

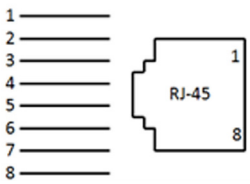
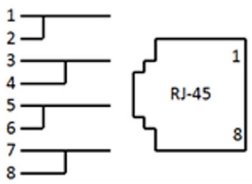
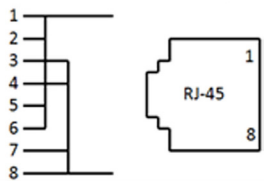
- Exceeds Category 6 transmission values
- Three stage hybrid circuit
- DC over Ethernet all pins
- Optional DIN mounting kit
- 5 year warranty

Certifications

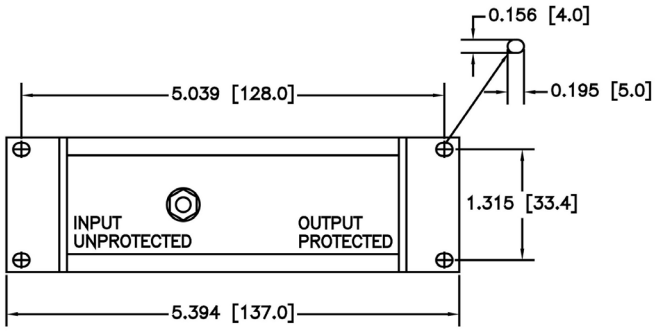
- UL 497B Listed
- IEEE802.3af & IEEE802.3at compliant (POE & POE+)

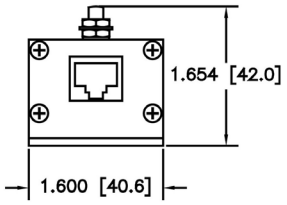
Installation Instructions

1. Mount the SPD as close as possible to the protected equipment and secure. #6 hardware is recommended.
2. 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”. Wire should be short and straight as possible.
3. Connect the Model 185 supply cable (with RJ-45 connector) to the INPUT side of the SPD.
4. Complete the circuit by connecting the CAT5 cable (provided) from the output of the SPD to the protected equipment.

Higher Operating Currents	4 Pair – 0.75 A/36W per pin	2 Pair – 1.5 A/72W per pin	1 Pair – 3.0 A/144W per pin
** For applications requiring higher Operating Currents, input connections can be paralleled to meet the desired rating.*			

Dimensional Information





Ordering Information

MODEL *Former Model Name*	**APPLICATION**
185D068S10KXRJN0 *Edco CAT6-POE*	CAT6 Protection
185D068S10KXRGN0 *Edco CAT6-POE-I*	CAT6 Protection with Isolated Ground

ACCESSORIES *Former Accessory Name*

C6DIN *11604KIT-C6*	Single unit DIN Mounting Kit * (Sold Separately)

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

⚠ 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 systéme. Des précautions de sécurité en électricité doivent être suivis lors de l’installation ou de la maintenance de cet equipement. Pour eviter tout risque de choc électrique, débranchez et verouiller toutes les sources d’alimentation de cet equipement avant de.

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