

Surge Protective Device



The **ASCO Model 105** is a din rail mountable, single pair surge suppression module implementing three-stage hybrid technology. This module addresses over-voltage transients with gas tubes and silicon avalanche components. In addition, sneak currents are mitigated with resettable fuses (PTCs). The PTCs increase resistance several orders of magnitude when over-currents exceed safe levels. A normal state resumes when over-currents are removed. The ability to self-restore in this manner significantly increases suppressor performance and survivability.

The Model 105 mounts onto a standard 35mm industrial din rail. There are three “Field Side” and three “Electronics Side” screw terminals. One is reserved for a shield. Three electrically tied ground terminals are provided for grounding the Model 105 unit to Building-Approved Ground. Shield is isolated from ground. Two (2) terminal versions without a shield connection are also available.

General Technical Specifications

| | |
|------------------------------|------------------|
| Operating Voltage | 6 - 35 VDC |
| Clamping Voltage | 8 - 43 VDC |
| Operating Current | 0.15 A |
| Peak Surge Current | 10 kA (8x20μs) |
| Max Current Ip (Occurrences) | >100 (10x1000μs) |
| Typical Capacitance | 1500pf |
| Nominal Series Resistance | 5 Ω |
| Response Time | < 1 nanosecond |
| Operating Temperature | -40°C to 85°C |
| Certifications | UL 497B |
| Warranty | 5 years |

105D200S08KAN3D0 Special Features

| | |
|---------------------------------|-----------------|
| Operating Voltage | 170 VDC |
| Clamping Voltage | 200 VDC |
| Operating Current | 5 Amp |
| Max Current Ip (Occurrences) | >10 (10x1000μs) |
| Total Peak Surge Current Rating | 8 kA (8x20μs) |
| Nominal Series Resistance | None |

Caution

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

Attention

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

Technical Documentation

Key Specs

- **Voltage:** 0-35 VDC
- **Current:** 150 mA
- **Connection:** Hardwire/Terminals - accepts up to 12 AWG
- **Mounting:** DIN - 35mm

*See Ordering Information for model number selection

Features

- Low-voltage data surge protection
- Three-stage hybrid protection
- Sneak/fault current protection with resettable fuses (PTCs)
- Low profile packaging
- Easy installation
- Fits standard 35mm DIN-Rail

Certifications

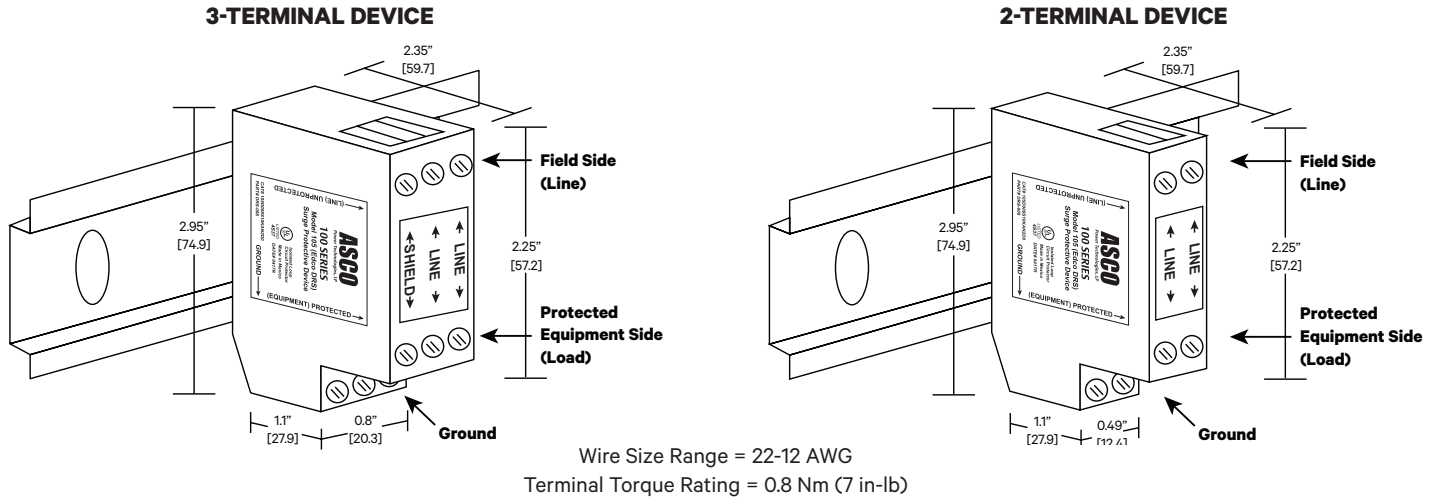
- UL 497B

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.

Installation Instructions



Read and Understand These Instructions

These protectors are intended for indoor use on communication loop circuits which have been isolated from the Public Switch Telephone Network.

The communication loop circuits shall not be exposed to accidental contact with the electric light or power conductors. The protectors shall be installed per the applicable requirements of the National Electric Code, ANSI/NFPA 70.

Ordering Information

MODEL

Former Model Name

APPLICATION

| | |
|---|-----------------------------------|
| 105D008S10KAN3D0 <i>Edco DRS-008</i> | 0-8 VDC |
| 105D015S10KAN3D0 <i>Edco DRS-015</i> | 0-15 VDC |
| 105D030S10KAN3D0 <i>Edco DRS-030</i> | 0-30 VDC |
| 105D036S10KAN3D0 <i>Edco DRS-036</i> | 0-36 VDC |
| 105D200S08KAN3D0 <i>Edco DRS-130RMS</i> | 0-200 VDC |
| 105xxxxxxxxN2xx <i>Edco DRS-XXX-2</i> | 2 Terminal Version without shield |

Other Models Available. Contact Factory.