

Surge Protective Device

Technical Documentation



The **ASCO Model 257** offers greater total peak surge current capacity and better filtering than the model 254 and also incorporates a failure indicator as well as remote sensing circuitry. In addition, the method of wire termination is different, utilizing wire leads and terminal block connectors on the Model 257 instead of stud connections.

The unit consists of four basic sub-circuits; the primary clamp, secondary clamp, filter, and the remote sensing and indicator circuitry.

The EMI/RFI filtering circuitry provides 50 db attenuation @ 100 khz. The remote sensing circuitry output is a form C dry relay contact closure suitable to interface with a modem or computer port for polling remotely.

Key Specs

- **Voltage:** 120VAC
- **Current:** 15A
- **Connection:**
Terminal Block / Wire Leads
- **Mounting:** Flange

**See Ordering Information for model number selection*

General Technical Specifications	
Operating Voltage	120 VAC
Clamping Voltage	280V _p
Operating Current (do not exceed)	15A
Surge Current Capacity	
L-N Surge Current Capacity	40kA
L-G Surge Current Capacity	40kA
N-G Surge Current Capacity	13kA
Total Peak Surge Current	93kA
Operating Frequency	47 - 63Hz
EMI Attenuation	50dB @ 100kHz
SPD Technology	Metal Oxide Varistors (MOV) w/ L-C Filter
Modes of Protection	L-N, L-G, N-G
Status Indication	Power On & MOVs Functional
Connection Type	Terminal Block / Wire Leads
Operating Temperature	-40 C to +85 C
Dimensions (in/mm)	2.375" H x 3.125" W x 7.125" L [60.3 x 79.4 x 181.0 mm]
Weight (lb/kg)	1 lb 9 oz [0.70 kg]
Warranty	5 years

Features

- Multi Stage Hybrid
- 50dB Attenuation @ 100KHz
- Nanosecond Response Time
- L-C Filter
- 5 Year Warranty

DANGER!

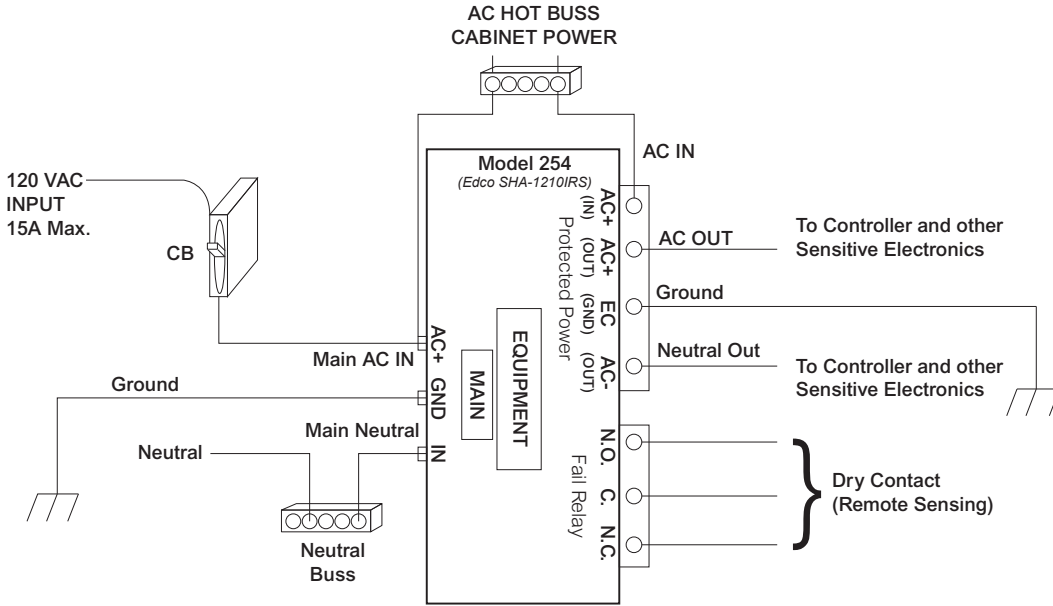
Only qualified personnel should install or service this system. Electrical safety pre-cautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

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.

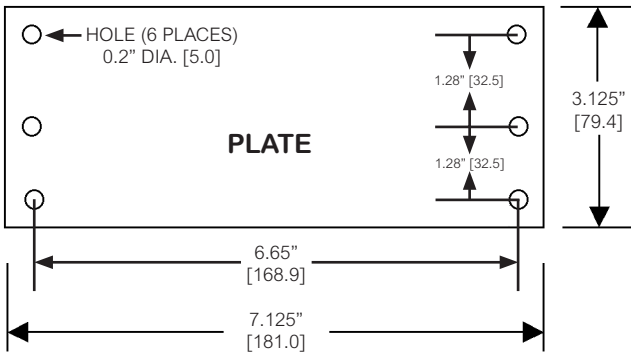
Caution

1. *This product could become excessively hot and rupture in the rare event of power line conditions or surge that exceed its rated operating specification.*
2. *High voltages are present on electrical termination. Unit should be serviced by qualified personnel only.*

Installation Instructions



Mounting



Ordering Information

MODEL
Former Model Name

APPLICATION

257120NF015AN4N0
Edco® SHA-1210IRS

120VAC, 15A