

1.0 Introduction

1.1 Manual Organization

This Installation Manual describes the safe installation, testing and operation of the Eaton® SPD Series Surge Protective Device (SPD).

This manual is organized into seven sections, as follows:

- 1.0 Introduction
- 2.0 Installation
- 3.0 Operating Features
- 4.0 Troubleshooting
- 5.0 Specifications
- 6.0 Ordering Guidelines
- 7.0 Warranty

1.2 Product Overview

The Eaton SPD Series protects critical electrical and electronic equipment from damage by power surges. This is done by shunting high energy lightning surges (and other transient disturbances) away from the equipment being protected. It does this in nanoseconds by providing a low impedance surge path to ground while supporting power frequency voltage.

The Eaton SPD Series is designed to mount on the wall (or other vertical surface) as close as possible to the electrical cabinet. The SPD Series is available in AC, surge current capacity ratings from 50kA to 400kA, NEMA 1 enclosures.

The Eaton SPD Series is available in three feature packages (Basic, Standard, and Standard With Surge Counter), as described in Section 3, "Operating Features." Each model is available in Delta, Wye, and Split Phase wiring configurations.

All Eaton SPD Series models have been tested and certified by Canadian Standards Association to comply with ANSI/UL Standard 1-449, 3rd Edition.

1.3 Safety Precautions

A licensed/qualified electrician must complete all instructions in this manual in accordance with the National Electric Code (NEC®), state, and local codes, or other applicable country codes. All applicable local electrical codes supersede these instructions.

⚠WARNING

IMPROPER INSTALLATION COULD CAUSE DEATH, INJURY AND EQUIPMENT DAMAGE. FOLLOW ALL WARNINGS AND CAUTIONS. COMPLETELY READ AND UNDERSTAND THE INFORMATION IN THIS INSTRUCTION MANUAL BEFORE ATTEMPTING TO INSTALL OR OPERATE THIS EQUIPMENT.

IMPROPER WIRING COULD CAUSE DEATH, INJURY AND/OR EQUIPMENT DAMAGE. ONLY LICENSED/QUALIFIED ELECTRICIANS WHO ARE TRAINED IN THE INSTALLATION AND SERVICE OF ELECTRICAL SERVICES ARE TO INSTALL AND SERVICE THIS EQUIPMENT.

HAZARDOUS VOLTAGES ARE PRESENT INSIDE THE SPD DURING NORMAL OPERATION. FOLLOW ALL SAFE WORK PRACTICES TO AVOID ELECTRICAL SHOCK.

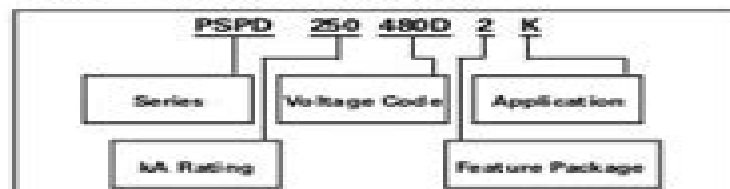
⚠WARNING

ARC FLASH DURING INSTALLATION COULD CAUSE INJURY. USE APPROPRIATE SAFETY PRECAUTIONS AND EQUIPMENT FOR ARC FLASH PROTECTION.

1.4 Catalog Numbering System

Each Eaton SPD Series unit has a name plate that identifies the parameters used for manufacture. These parameters are expressed in letters and numbers, to reflect the Series, kA Rating, Voltage Code, Feature Package, and Application as shown in Table 1.

Table 1. Catalog Numbering System



For example, a 480 volt Delta (3-wire plus Ground) for use in an NEMA 1 application requires an SPD model SPD 250480D2K, where:

SPD = __SPD model.

250 = the kA rating (50 – 400 kA).

480D = the voltage.

2 = the feature package (Basic, Standard, Standard With Surge Counter), and,

K = the Application Suffix (NEMA 1 with or without an internal disconnect).

These numbers appear as part of the product label attached to the front left side of the SPD. See Figure 1.

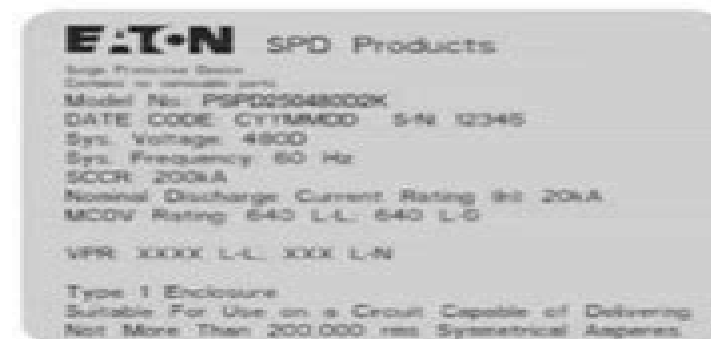


Figure 1. Product Label

Eton Instruction Manual

M Lipman



Eton Instruction Manual:

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