Chapter 1 Introduction

1.1 Intended Use

Reactor Power Panels (RPPs) make maintenance of downstream equipment safer by limiting fault current and reducing the risk of arc flash. The 2500A Current-Limiting Reactor is designed to be used as part of a reserve power source for multiple downstream RPPs with Bypass Cabinets. An Current-Limiting Reactor, when used as a component of a reserve power source, allows multiple downstream RPPs to be taken offline for maintenance while the Current-Limiting Reactor temporarily provides the same safety benefits as the offline RPPs.

1.2 Description

The Current-Limiting Reactor is a stand-alone unit with no operational controls. Switching to reserve power occurs at the downstream RPP Bypass Cabinet. For operational procedures on switching downstream RPPs to reserve power, see these companion Eaton manuals:

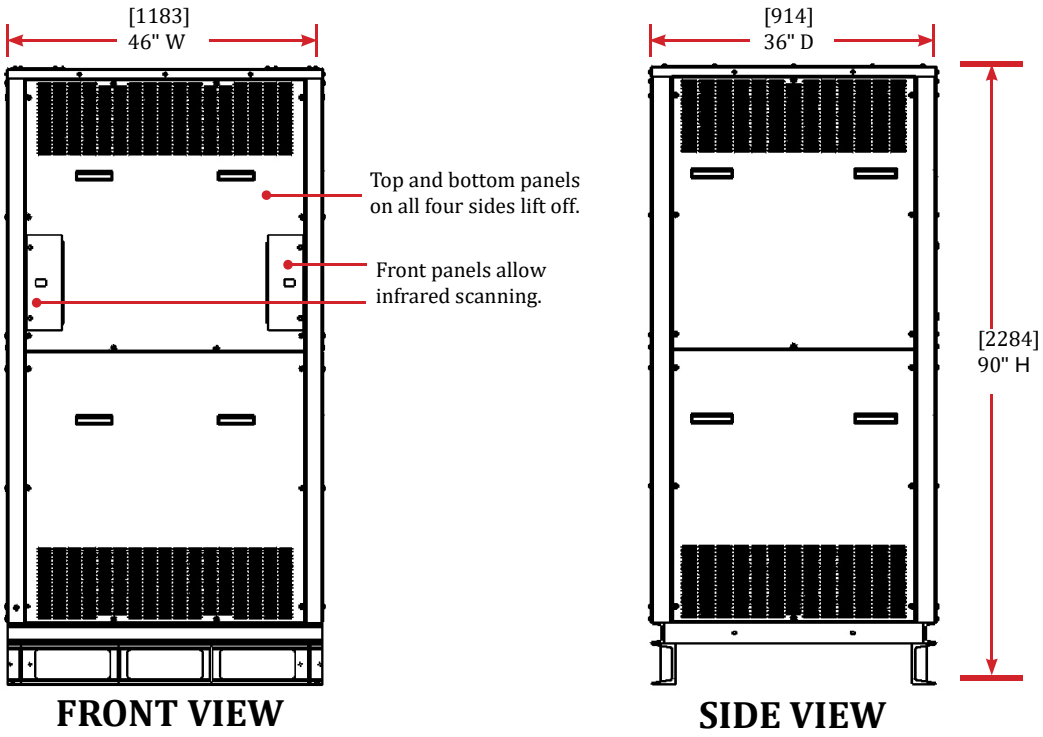
- Reactor Power Panel V2 (250A) Installation and Operation P–164001118.
- Retrofit Bypass Cabinet for Reactor Power Panels (250A) Installation and Operation P–164001119

Cable entry can be from top or bottom of the unit. An Current-Limiting Reactor can also have an optional side car that provides additional cable entry space for conduit. The side car allows already installed floor conduit to align with the unit. See section .

Left and right front panel doors enable infrared scanning from the front of the unit.

The 2500A Current-Limiting Reactor cabinet structure and dimensions are shown below.

Figure 1. Current-Limiting Reactor 2500A Dimensions



1.3 Using This Manual

Read this manual thoroughly and make sure you understand the procedures before you attempt to install, set up, operate or carry out any maintenance work on this Eaton product.

Read through each procedure before beginning the procedure. Perform only those procedures that apply to the unit being installed or operated.

1.4 Conventions Used in This Manual

This manual uses these type conventions:

NOTE Some conventions only apply to display screens (if installed).

- **Bold type** highlights important concepts in discussions, key terms in procedures, and menu options, or represents a command or option that you type or enter at a prompt.
- *Italic type* highlights notes and new terms where they are defined.
- `Screen type` represents information that appears on the screen or LCD.

Icon	Description
	Information notes call attention to important features or instructions.
[Keys]	Brackets are used when referring to a specific key, such as [Enter] or [Ctrl].

1.5 Symbols, Controls, and Indicators

The following are examples of symbols used on the reactor or accessories to alert you to important information:

RISK OF ELECTRIC SHOCK - Observe the warning associated with the risk of electric shock symbol.

CAUTION: REFER TO OPERATOR'S MANUAL - Refer to your operator's manual for additional information, such as important operating and maintenance instructions.

This symbol indicates that you should not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

1.6 Getting Help

If help is needed with any of the following:

- Scheduling initial startup
- Regional locations and telephone numbers
- A question about any of the information in this manual

- A question this manual does not answer

Please call the Eaton Help Desk at:

United States:**1-800-843-9433** or **1-919-870-3028**

Canada:**1-800-461-9166 ext 260**

All other countries:**Call your local service representative**

Please use the following e-mail for manual comments, suggestions, or to report a technical error in this manual.

E-ESSDocumentation@eaton.com

1.7 Warranty and End User License Agreement

To view the warranty please click on the link or copy the address to download from the Eaton website:

Eaton Product Warranty

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