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Indoor Power Fuse Disconnect Mounting

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Material Specification

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision Comments
01	Mar. 22, 2022	Initial release
02	Sep. 10, 2024	General format modifications, TOC updated, Section 4 modified, and sections order rearranged.
03	Jan. 07, 2025	General format and TOC modifications. End fittings requirements removed.



Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
010-08168	54491	3	01/07/2025



1. Introduction

This is a general specification that covers the minimum requirements for the indoor power fuse disconnect mounting used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders will not have to furnish samples at bid opening. The equipment/material will be received at LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

- 3.1. Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature must include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. **The literature must be an official document from and certified by the manufacturer.** Failure to submit documents on time and duly certified by the manufacturer will cause bidder disqualification.
- 3.2. If required by LUMA, final drawings and documentation shall be submitted by the vendor before the manufacturing and shipping process for approval.

4. Compatible with

For compatible manufacturers and models, see Table 1. These models are examples of the equipment/materials described in this document and do not represent a preference. LUMA will evaluate equally any models not listed here during any acquisition event.

5. Markings

- 5.1. Containers or pallets shall be marked outside with LUMA Energy's purchase order and warehouse catalog number.
- 5.2. Individual package(s) shall be clearly marked with manufacturer name and item information (part number, serial number, quantity, etc.).

5.3. Packaging labels and tags shall be waterproof.

6. Packaging

All equipment/material shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

Standard package: One (1) unit per package or as requested by LUMA Energy.

8. Acceptance Criteria

8.1. Test required: certified by external laboratories.

8.2. Product shall be manufactured in accordance with the latest issue below (section 8.3). When conflicts occur between purchaser's specifications and the latest issue below, the purchaser's specification shall prevail.

8.3. Latest applicable codes, standards, and other regulations: ANSI/ASTM.

8.4. If any other standards different from the ones indicated in this document are used, the supplier must provide information showing compatibility with the required ones.

9. Description

9.1. Fuses disconnect mounting for expulsion boric acid type power fuse.

9.2. Electrical requirements:

- | | |
|---|---------------------|
| a. Nominal Voltage: | 13.8 kV |
| b. Maximum Design: | 17 kV |
| c. Basic Insulation Level: | 95 kV |
| d. Maximum Current Rating: | 200 A |
| e. Fault Closing Capability (one-time): | 22.4 kA (RMS Asym.) |

9.3. Load Break mounting shall include the following:

- Shall permit the fuse to have a 45-degree opening.
- Rugged 3/16" (4.76 mm) thick flanged, formed-steel base with three-point mounting.
- S&C cyproxy or silicone rubber insulators.
- Two-hole, 9/16" \varnothing each (1.4 cm) silver or tin-plated, NEMA standard, terminal pads.
- Spring-backed upper and lower mounting contacts made of copper heavily silver clad.
- A uni-rupter which should provide 200 A single pole live switching.



- g. A fault-closing contact which provides a duty-cycle fault current rating of 22.4 kA RMS (Asym.) at 14.4 kV (one-time).
- 9.4. The mounting and its parts shall be factory assembled and delivered as a complete unit.
- 9.5. Shall be compatible with the SMU-20 or equivalent power fuse with its end fittings installed.

10. Inspection

The acceptance of any equipment/material shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such equipment/materials were found later to be defective.

11. Proposal Information

- 11.1. Submitted proposals must include:
 - a. Technical information, tests, and drawings.
 - b. Table of Compliance completed by the bidder with reference (see Appendix 1).

12. Table 1: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Type	Compatible Manufacturer & Model
010-08168	54491	Indoor Power Fuse Disconnect Mounting	S&C (90412)

— End of Specification —



Appendix



Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P/F)	Comments
1	Complies with the specification document 4350.304.		
2	Industry Standards: ANSI/ASTM		
3	Tech. info. and drawings provided.		
4	Nominal Voltage: 13.8 kV		
5	Max. Design Voltage: 17 kV		
6	Basic Insulation Level: 95 kV		
7	Max. Current Rating: 200 A		
8	Fault Closing Capability (one-time): 22.4 kA (RMS Asym.).		
9	45-degree fuse opening.		
10	Rugged 3/16" thick flanged, formed-steel base with three-point mounting.		
11	S&C cyposy or silicone rubber insulators.		
12	Two-hole, 9/16" Ø ea. silver or tin-plated, NEMA standard, terminal pad.		
13	Spring-backed upper and lower mounting contacts made of copper heavily silver clad.		
14	A uni-rupter which should provide 200 A single pole live switching included.		
15	A fault-closing contact which provides a duty-cycle fault current rating of 22.4 kA RMS (Asym.) at 14.4 kV (one-time).		
16	Compatible with SMU-20 power fuse with its end fittings installed.		
17	Factory assembled mounting and parts as a complete unit.		

NOTE: This table is only a checklist for reference. The compliance must be with the complete document. Filling out the table with "PASS" won't be accepted as a compliance without the technical information required to certify it.











4350.304 Indoor Power Fuse Disconnect Mounting (1-7-25)

Final Audit Report

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