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SM-5 Fuse Holder

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision
1	Dec. 20, 2021	PREPA to LUMA format.
2	May. 07, 2024	General format modifications and Item 010-85999 added.
3	July 28, 2025	Update the general format and revise the Compatible Manufacturer & Model for Item 010-85999
4	Sep 17,2025	Update the document number from 4300.11.147 to 4300.50.147.

Warehouse Catalog #	Asset Suite #	Version	Date
010-08077	54482	5	Sep 17,2025
010-85999	85999	3	Sep 17,2025



1. Introduction

This is a general specification that covers the minimum requirements for the SM-5 Fuse Holder to be 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 material.

2. Special Requirements

- 2.1. Samples shall be furnished as requested by LUMA Energy. All documented testing required by applicable specifications and standards shall be submitted with product samples, including mechanical and electrical drawings, prior to approval. Vendors that have supplied this material to LUMA on previous orders will not have to furnish samples at bid opening. If any material or design changes were made to an approved product, it must be re-submitted to the Material Specification engineer for approval before shipping.
- 2.2. The product shall be furnished as described here in this specification or as amended by the purchase order. Any changes or updates to the Supplier's procedures, quality routines, and/or inspection layout shall be liable for all costs incurred for a product that is refused or rejected.
- 2.3. Upon inspection of incoming equipment/material, the purchaser reserves the right to refuse product shipments and to determine the acceptability or rejection of product received. The Supplier shall be liable for all costs incurred for a product that is refused/rejected.
- 2.4. All equipment/materials shall be warranted for a period of one year from date of installation or 18 months from the date of shipment or whichever comes first, against material defects and workmanship. The warranty shall include parts and labor to repair the defective component at the supplier's facility. The supplier also warrants that all equipment and materials supplied there under are new.
- 2.5. The equipment/material will be received at the 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 the 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/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

5. Markings

- 5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 5.2. Individual package(s) shall be clearly marked with the manufacturer's name and item information (part number, serial number, quantity, etc.). Packaging labels and tags shall be waterproof.
- 5.3. Transformers shall be marked on the cover with the point of delivery (district) and purchase order number using a label.
- 5.4. Packaging labels and tags shall be waterproof.

6. Packaging

- 6.1. 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.
- 6.2. A list of all parts included in the container and/or package must be provided at the time of delivery so that the receiving personnel can verify that everything requested is present, avoiding any delay in the receiving process.

7. Number Per Package (Logistics)

- 7.1. The supplier shall indicate the logistics regarding the opening bid or as required by LUMA Energy, as outlined in Table 1, or as otherwise specified by LUMA.
- 7.2. One (1) unit per box or as requested by LUMA.

8. Acceptance Criteria

- 8.1. All characteristics, definitions, and terminology, except as specifically covered in this specification, shall be in accordance with the latest revision of the following ANSI Standards.
 - a. Quality system certified to ISO 9001:2000
 - b. IEEE C37.41 – Standard design tests for high-voltage (>1000 V) fuses and accessories.

9. Description

- 9.1. The S&C SM5 Fuse Holder is a reliable solution designed for protecting electrical systems from overcurrent conditions. Engineered with precision, the SM5 Fuse Holder ensures optimal performance and safety in various applications, including utility, industrial, and commercial settings.

9.1. SM-5 Fuse Holder

- c. S & C SM-5 fuse holder 14.4 – 17.0 KV, 400 A, disconnect, 180° opening, vertical style for SM-5 fuse mounting and SM-5 fuse refill.
- d. SM-5 fuse holder shall have:
 - 1. Bronze pull and lifting eye.
 - 2. Silver surface upper and lower ferrules.
 - 3. Porcelain jacket.
 - 4. Hexagonal clamping nut to lock fuse refill unit in place.
 - 5. Rain shield cap.
- e. Nominal operating voltage: 14.4 – 17.0 KV.
- f. Current Rating: 400 A

9.2. SM-5 Switch Blade

- a. S & C SM-5 Switch Blade direct drop in, disconnect, 180° opening, vertical style for SM-5 fuse mounting.
- a. SM-5 Switch Blade shall have:
 - 1. Bronze pull ring and lifting eye.

2. Silver surface upper and lower ferrules.
 3. Porcelain jacket.
 4. Hexagonal clamping nut to lock fuse refill unit in place.
- b. Nominal operating voltage: 14.4 – 17.0 KV.
 - c. Current Rating: 400 A Rain shield cap.
 - d. Dimension
 1. Fuse clip centers $16\frac{1}{2}$ "
 2. Heights $21\frac{5}{8}$ "

10. Inspection

- 10.1. Upon inspection of incoming equipment/material, the purchaser reserves the right to refuse product shipments and to determine the acceptability or rejection of the product received. The supplier shall be liable for all costs incurred for a product that is rejected.
- 10.2. 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, drawings, and tests.
 - b. Table of Compliance completed by the bidder with reference (see Appendix 1).

Table 1: Warehouse and Asset Suite Identification Number.

Warehouse Catalog #	Asset Suite #	Description	Compatible Manufacturer & Model
010-08077	54482	SM-5 Fuse Holder	S & C Electric Company – catalog #: 86152R2
010-85999	85999	SM-5 Switch Blade	S & C Electric Company – catalog #: 3242

—End of Specification —

Appendix

Appendix 1: Table of Compliance 010-08077, SM-5 Fuse Holder

Line	Description	Pass/Fail	Comments
1	The Proponent complies with the corresponding specification document (4300.50.147).		
2	fuse holder 14.4 – 17.0 KV, 400 A, disconnect, 180° opening, vertical style		
3	SM-5 Switch Blade shall have: <ul style="list-style-type: none"> • Bronze pull ring and lifting eye. • Silver surface upper and lower ferrules. • Porcelain jacket. • Hexagonal clamping nut to lock fuse refill unit in place. 		
4	Nominal operating voltage: 14.4 – 17.0 KV.		
5	Current Rating: 400 A		

Appendix 2: Table of Compliance 010-85999, SM-5 Switch Blade

Line	Description	Pass/Fail	Comments
1	The Proponent complies with the corresponding specification document (4300.50.147).		
2	SM-5 Switch Blade direct drop in, disconnect, 180° opening, vertical style for SM-5.		
3	SM-5 Switch Blade shall have: <ul style="list-style-type: none"> • Bronze pull ring and lifting eye. • Silver surface upper and lower ferrules. • Porcelain jacket. • Hexagonal clamping nut to lock fuse refill unit in place. 		
4	Nominal operating voltage: 14.4 – 17.0 KV.		
5	Current Rating: 400 A		
6	Dimension <ul style="list-style-type: none"> • Fuse clip centers 16$\frac{1}{2}$" • Heights 21$\frac{5}{8}$" 		

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.












4300.50.147 SM-5 Fuse Holder V04

Final Audit Report

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