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Fuse, Non-Renewable, 250 V, Class K5

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Material Specification

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision Comments
1	Mar. 09, 2022	Initial Release
2	Jul. 06, 2022	Table of compliance created.
3	Jul. 16, 2024	Format corrections, TOC update, Section 4 modified, and sections order rearranged.



Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
010-00686	59348	4	7/16/2024
010-00389	59344	4	7/16/2024
010-00702	59349	4	7/16/2024
010-00421	59345	5	7/16/2024
010-00462	59346	4	7/16/2024
010-00488	59347	4	7/16/2024



1. Introduction

This is a general specification that covers the minimum requirements for a non-renewable, 250 V, Class K5 fuses 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 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 the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. If required by LUMA, final drawings 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. Each fuse shall be marked with voltage & ampere ratings, and type as minimum.
- 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)

Ten (10) per box except for the 100 A, this will be five (5) per box. Or as requested by LUMA.

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: UL.
- 8.4. If any other standard 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. These 250 VAC midget size one-time non-renewable class K5 fuses are used for low voltage power circuits at service entrance equipment, non-inductive loads, feeder and lighting circuits, and resistance heating loads where the short-circuit currents do not exceed 50,000 A.
- 9.2. Shall be suitable for moderate current-limiting protection.
- 9.3. Shall be suitable for mounting in National Electrical Code (NEC) standard fuse holders, 250 VAC.
- 9.4. Shall be underwriter's laboratories, inc. (UL) Listed.
- 9.5. The 100 A fuse will be knife-blade type.
- 9.6. Ferrules shall be free of cracks.

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

Item (Amp Rating)	Warehouse Catalog #	Asset Suite #	Dimensions	Compatible Model
10A	010-00686	59348	Overall Length: 2" (5.1 cm) Ferrule Diameter: 9/16" (1.4 cm)	NON -10
15A	010-00389	59344	Overall Length: 2" (5.1 cm) Ferrule Diameter: 9/16" (1.4 cm)	NON -15
20A	010-00702	59349	Overall Length: 2" (5.1 cm) Ferrule Diameter: 9/16" (1.4 cm)	NON -20
30A	010-00421	59345	Overall Length: 2" (5.1 cm) Ferrule Diameter: 9/16" (1.4 cm)	NON-30
60A	010-00462	59346	Overall Length: 3" (7.6 cm) Ferrule Diameter: 13/16" (2.1 cm)	NON -60
100A	010-00488	59347	Overall Length: 5-7/8" (14.9 cm) Overall Diameter: 1-1/16" (2.7 cm) Blade: 1" X 3/4" X 1/8" (2.5 X 1.9 X 0.3 cm)	NON-100

— End of Specification —



Appendix



Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.141).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document.		
3	Fuse Class	<ul style="list-style-type: none">• K5		
4	Product Requirement	<ul style="list-style-type: none">• Operating Voltage: 250 V• Length: see table 1 section 12• Dimensions: see table 1 section 12• Non-renewable• 100 A fuse will be knife-blade type.		
5	Amp Rating	See table 1 on section 12		

NOTE: This table is only a check list for reference. The compliance shall be with the complete document. Marking a PASS in the table won't be accepted as a compliance without the technical information required to certify it.











4350.141 Fuse-250V-Type K5 (7-16-24)

Final Audit Report

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