



Equipment Specification

Document No.: 4402.021

Item No.: 030-80074

Originating Department: Distribution Engineering

Shorting cap, twist lock auto range 105-305 VAC

1. Introduction

This is a general specification that covers shorting cap with 3 prong locking type plug connector, autorange 105 – 305 VAC for luminaires to be used to complete circuit when a photocontrol is not required on the distribution system in Puerto Rico. Project information will be provided by LUMA Energy at time of order placement and will provide information on site specific conditions, quantity, and other requirements.

2. Special Requirements

3. Samples and descriptive technical literature shall be supplied if requested by LUMA. Must be properly labeled for testing and/or analysis. Awards will be made only for such products that have been tested and approved. Evidence of PREPA's or LUMA's approval of the equipment or material shall be supplied if requested by LUMA Energy.

4. Quantity

- 4.1. Three units, properly labeled for testing and/or analysis. Vendors that have supplied this material to PREPA or LUMA Energy on previous orders, will not have to furnish samples at bid opening. Descriptive and technical literature shall be supplied if requested by LUMA Energy.

5. Markings

- 5.1. Containers shall be marked outside with LUMA Energy purchase order number, code number, manufacturer lot number and manufacturer name. Each individual carton box must be marked outside with a label "For use in lamps controlled in a single point".

6. Packaging

- 6.1. One (1) unit packed in individual carton box.

7. Number per package (Logistics)

- 7.1. 50 units per box.

8. Acceptance criteria

- 8.1. Latest applicable codes, standards, and other regulations: EEI – IES – EEI/NEMA – ANSI/ASTM – ASTM – IEEE.

9. Description

- 9.1. Autorange 105-305 VAC, 15 A shorting cap control device. Reliable unit suitable for completing the primary circuit when a photocontrol is not required for the operation of public streetlights.

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The housing shall be high impact and UV rays deterioration resisting plastic. Color cover – black. The unit shall have a rated load of 1000 watts/ 1800 VA minimum. The control shall conform to NEMA standard OD3 and ANSI C136.10 (latest standards). The base of this unit shall be of three (3) terminal solid brass legs, twist lock type plug, in accordance with ANSI C136.10 (latest standard) with a 2.75 in. (7.0 cm) minimum outside diameter neoprene gasket and 1/8 in. (0.32 cm) minimum thickness. The housing (plastic cover) shall comply with UL standard 773, shall be removable and constructed so that no parts are exposed. The base shall provide a mean for recording installation and removal dates, which remain clearly legible. Also, remain clearly legible, the month and year of manufacturing, the “AEE” initials and the identifying markings of the equipment, such as operating voltage, load rating, model, and serial numbers, shall be guaranteed for optimal operation for a minimum of two (2) years from the date of manufacturing whichever comes first.

9.2. Metric conversions as per ASTM 380.

10. Inspection

10.1. The acceptance of any material or equipment 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 materials are found later to be defective.

— End of Specification —

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Document History

Version	Date	Author	Reviewer	Approver
2	8/13/2021	Marlene Ortiz Rivera	Alvin Rosario Osorio	Héctor R. Benero García