



**Equipment Specification**  
**Document No.:** 4350.095  
**Item No.:** 002-13413  
**Asset Suite:** 55835  
**Originating Department:** Distribution Engineering



## **Wing Type Cluster Mount for Single Phase Pole Type Transformers**

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### **1. Introduction**

This is a general specification that covers the minimum requirements for wing type cluster mount for single phase pole type transformers 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**

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / LUMA on previous orders, will not have to furnish samples at bid opening. The 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. Quantity/Literature**

Descriptive and technical literature must be supplied by 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. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

### **4. Markings**

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Labels and tags shall be waterproof.

### **5. Equal or Approved Equal to**

Aluma Form, Inc. - Catalog #: 11 MW-24

**Equipment Specification**

Document No.: 4350.095

Item No.: 002-13413

Asset Suite: 55835

Originating Department: Distribution Engineering

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**6. Packaging**

All material and equipment 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)**

- 7.1. One (1) unit must contain one (1) wing type cluster mount, two (2)  $\frac{3}{4}$  X 18 in long stainless-steel square head bolts with square nuts, and two (2) inch square washers.
- 7.2. Product Weight: 34 lbs (15.42 kg).
- 7.3. Box quantity: 1 unit

**8. Acceptance Criteria**

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
  - a. ASTM
  - b. NEMA

**9. Description**

- 9.1. Wing type cluster mount. Aluminum assembly to accommodate three (3) single phase pole type transformers rated 15 to 167 KVA.
- 9.2. Must be suitable for fitting around 8 to 12 in (20.32 to 30.48 cm) diameter round or square poles.
- 9.3. Cluster must be wing type rather than thru-bolt type to avoid unnecessary pole drilling.
- 9.4. The assembly must include two (2)  $\frac{3}{4}$  X 18 in long stainless-steel square head bolts with square nuts and two (2) inch square washers.
- 9.5. All hardware must be made of 304 or 316 stainless-steel.
- 9.6. Load capacity: 2,000 lbs. (909 kg) minimum per transformer position.
- 9.7. Minimum distance from pole to mounting pad is 6 in (15.24 cm).

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## **Wing Type Cluster Mount for Single Phase Pole Type Transformers**

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- 9.8. Minimum distance from mounting pad to load center of gravity must be 14 in (35.56 cm)
- 9.9. Weight: 34 lbs (15.42 kg).
- 9.10. Material: Aluminum.

### **10. Inspection**




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 were found later to be defective.

### **11. Proposal Information**

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

— End of Specification —

### **Document History**

<b>Version</b>	6	
<b>Date</b>	04/14/2022	
<b>Author</b>	Alex J. Rodríguez	
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**Equipment Specification**

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**Wing Type Cluster Mount for Single Phase  
Pole Type Transformers**

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**Appendix**

**Equipment Specification**

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Item No.: 002-13413

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Originating Department: Distribution Engineering

**Wing Type Cluster Mount for Single Phase Pole Type Transformers****Appendix 1: Table of Compliance**

Line	Criteria	Description	Pass/Fail (P/F)	Comments
1	Specification	The Proponent complies with the corresponding specification document 4350.095.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ASTM, NEMA)		
3	Type	Wing type cluster mount for three (3) single phase, pole type, transformers		
4	Material	Aluminum		
5	Product Requirement	Aluminum assembly accommodate three (3) single phase pole type transformers rated 15 to 167 KVA		
6	Product Requirement	Must be suitable for fitting around 8 to 12 in (20.32 to 30.48 cm) diameter round or square poles		
7	Product Requirement	The assembly include two (2) ¾ X 18 in. long stainless-steel 304 square head bolts with square nuts and two (2) inch square washers		
8	Product Requirement	Assembly support a minimum load of 2,000 lbs. (909 kg) per transformer position		
9	Product Requirement	Minimum distance from pole to mounting pad is 6 in (15.24 cm)		
9	Product Requirement	Minimum distance from pole to mounting pad is 6 in (15.24 cm)		
10	Product Requirement	Minimum distance from mounting pad to load center of gravity must be 14 in (35.56 cm)		
11	Warehouse Number:	002-13413		