

Transformer Distribution Units Specification Document

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Transformer Distribution Units Specifications

B. Related Sections:

1. Division 00 – Bidding Requirements
2. Division 01 – General Requirements
3. Section 26 00 00 – Electrical: Basic Requirements

1.2 QUALITY ASSURANCE

A. Referenced Standards:

1. Underwriters Laboratories, Inc.
 - a. UL 1561 Listed – Dry Type General Purpose and Power Transformers

1.3 QUALIFICATIONS

- #### A. Transformer distribution unit manufacturer shall provide a complete factory assembled and tested unit.

1.4 SUBMITTALS

A. Shop Drawings

1. Product technical data:
 - a. Product dimensions with front and side elevation views
 - b. Enclosure type
 - c. Assembly ratings including amperage, voltage, OL protection

1.5 WARRANTY

A. Factory Warranty

1. Transformer Distribution Unit shall be covered by a manufacturer's warranty for a period of one (1) year from date of shipment from the manufacturer.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Power Assemblies LLC.
- B. No Substitutions

2.2 TRANSFORMER DISTRIBUTION UNITS

A. DRY TYPE TRANSFORMER

1. GENERAL

- a. Transforms are defined as 600V class, dry type general purpose distribution transformers

2. CONSTRUCTION

- a. Equipment shall be new

- b. Transformer enclosure shall be NEMA Type 3R
 - 1. Unit shall utilize aluminum or copper windings
 - 2. Transformer shall be UL listed
 - 3. Transformer will have removable panels front and rear
- c. ANSI-61 gray powder coating

3. ENCLOSURE

- a. Mount: Floor Mount
- b. Material: Steel
- c. Finish: ANSI 61 Gray
- d. Additional Requirements
 - 1. NEMA Type 3R
 - 2. UL506
 - 3. UL1561

4. CAMLOCKS

- a. Camlocks shall be male for input, female for output with clear snapback covers
- b. Camlocks shall be series 16 and 90 deg threaded post type
- c. Camlocks shall be color coded by standard voltage color coding
- d. Camlocks shall be provided in appropriate configuration to support required amperage

B. MOLDED CASE CIRCUIT BREAKER

1. GENERAL

- a. The molded case circuit breaker is defined as a single enclosed 2 or 3 pole overload electrical protection device designed to protect down stream conductors.

2. CONSTRUCTION

- a. Equipment shall be new
- b. Breaker shall include dual aluminum lugs suitable for 90 deg rated cable
- c. Breaker shall be molded case thermal magnetic overload type
- d. Breaker shall be 80% rated

C. FRAME

1. GENERAL

- a. The frame is defined as the protective welded steel enclosure that all previous equipment is mounted.

2. CONSTRUCTION

- a. Equipment shall be new
- b. The frame shall be constructed of 1.5'' x 1.5'' x .125'' steel
- c. The frame shall be outfitted with (2) ridged and (2) swivel casters
- d. The frame shall be coated with ArmorTek protective coating