

# Camlock Connection Box Specification Document

## PART 1 – GENERAL

### 1.1 SUMMARY

#### A. Section Includes:

1. Camlock Connection Box Specifications

#### B. Related Sections:

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

### 1.2 QUALIFICATIONS

- #### A. Camlock Connection Box manufacturer shall provide a complete factory assembled Camlock Connection Box.

### 1.3 SUBMITTALS

#### A. Shop Drawings

##### 1. Product technical data:

- a. Product dimensions with front and side elevation views
- b. Enclosure type
- c. Connection details

### 1.4 WARRANTY

#### A. Factory Warranty

1. Camlock Connection Box 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 CAMLOCK CONNECTION BOXES

#### A. GENERAL

1. Camlock Connection Boxes are defined as CAM style male or female connectors mounted to an enclosure so that the terminations are enclosed.
2. In the event the Contractor is furnishing the Camlock Connection Box, the Contractor shall be responsible for the equipment until it has been installed, inspected, tested and accepted in accordance with the requirements of the specifications.

#### B. CONSTRUCTION

1. All equipment shall be new.
2. Camlock Connection Box enclosure shall be NEMA 3R.
  - a. Unit shall be constructed of 0.075" carbon steel, seamless, continuously welded, and ground smooth. Enclosure will have a flange trough collar around all sides of door opening.
  - b. Enclosure will have mounting holes in back of enclosure for wall mounting and mounting hardware with sealing washers and hole plugs shall be included.

- c. Unit will have stainless steel concealed hinges, 1/4 latching mechanism for securing door, removable print pocket, and oil & water resistant gasketing.
  - d. CAM connectors shall be UL/CSA Listed single-pole and rated at 400 amps at 600VAC. CAM connectors shall be color coded to visualize appropriate voltages. CAM connectors shall be provided for each phase in the appropriate configuration to support required amperage and provided for neutral if required.
3. ANSI-61 gray powder coating inside and out.

#### C. ENCLOSURE

1. Mount: Wall Mount
2. Material: Carbon Steel
3. Finish: ANSI 61 Gray
4. Additional Requirements
  - a. NEMA Type 3R
  - b. UL 50 Listed/CSA
  - c. IEC 60529 IP 65

### PART 3 – EXECUTION

#### 3.1 INSTALLATION

##### A. Procedures for Installation

1. Prior to installation of the camlock connection box Contractor shall examine the areas and conditions under which the Camlock Connection Box is to be installed and notify the Engineer in writing if unsatisfactory conditions exist.
2. Camlock Connection Box shall be installed as shown on the drawings. In addition, the installation shall:
  - a. Meet the requirements of local codes, the National Electrical Code and National Electrical Contractors Association's "Standard of Installation."
  - b. Only use copper wire conductors for all field wiring.
  - c. All terminations must be torqued according to the label provided.