

# BERTHOLD ELECTRIC

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DESIGNERS & MANUFACTURERS OF THE ORIGINAL GENERATOR CONNECTION CABINET



## SECTION 26 32 90 GENERATOR CONNECTION CABINET

### Part 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Generator Connection Cabinet
- B. Related Sections include but are not necessarily limited to:
  - 1. Division 00 - Bidding Requirements, Contract Forms, and Conditions of the Contract
  - 2. Division 01 - General Requirements
  - 3. Section 26 05 00 - Electrical: Basic Requirements

#### 1.2 QUALITY ASSURANCE

- A. Referenced Standards:
  - 1. Underwriters Laboratories, Inc (UL):
    - a) 1008 Supplement SB: Standard for Accessories, Transfer Switch
  - 2. National Electrical Manufacturers Association (NEMA):
    - a) 250, Enclosures for Electrical Equipment (1000 Volts Maximum)

#### 1.3 QUALIFICATIONS

- A. For the equipment specified herein, the Generator Connection Cabinet shall be of standard design and manufacture, and not a custom built piece of equipment
- B. The manufacturer of this equipment shall have produced similar electrical equipment for a minimum period of five (5) years. When requested by the Engineer, an acceptable list of installations with similar equipment shall be provided demonstrating compliance with this requirement.

#### 1.4 REGULATORY REQUIREMENTS

- A. The Generator Connection Cabinet shall be UL labeled as a complete assembly

#### 1.5 SUBMITTALS

- A. Shop Drawings:
  - 1. Product technical data:
    - a) Overall product dimensions: height, width, depth
    - b) Front and side elevation views
    - c) Foot/wall print
    - d) Line & load connection details
    - e) Conduit entry location(s)
    - f) Assembly ratings including
      - i) Short-circuit rating
      - ii) Voltage
      - iii) Continuous current Amperage rating

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. See Specification Section 26 05 00

#### 1.7 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of Generator Connection Cabinet that fail in materials or workmanship within specified warranty period

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1. Warranty Period: 12 months from date of installation or 18 months from date of shipment, whichever occurs first

## **Part 2 - PRODUCTS**

### **2.1 ACCEPTABLE MANUFACTURERS**

- A. Subject to compliance with the Contract Documents, the following manufacturers are acceptable:
  1. Generator Connection Cabinet:
    - a) Berthold Electric
    - b) No substitutions

### **2.2 GENERATOR CONNECTION CABINET**

- A. Ratings:
  1. Voltage and amperage: As indicated on the Drawings
  2. Short circuit withstand: 35,000AIC
- B. Construction:
  1. Bus material: Silver plated copper
  2. Bus supported with UL Recognized Component insulators
  3. Permanent bus connection:
    - a) {Mechanical set screw lugs}{Long barrel compression lugs}
    - b) Quantity: As required for the number of conductors indicated on the Drawings
  4. Field (temporary) wiring connections:
    - a) Color coded male 400 Amp Cooper Crouse-Hinds Cam-Loks
    - b) Quantity: 1 connection per 400A
- C. Enclosure:
  1. {Wall mount}{Pad mount}
  2. NEMA 3R rated
  3. Material: {Aluminum}{Stainless steel}
  4. Finish: {Bare metal} {Powder coat ANSI-61 gray}
  5. Lockable latches on Cam-Lok access door
  6. Drip hood
- D. Optional Features
  1. {Temporary cable access panel interlocking micro switch}
  2. {Provision for Kirk Key interlock on temporary cable access panel}
  3. {Phase sequence & failure indication}
    - a) NEMA 4 switchboard style 4 1/2" meter mounted on exterior of enclosure and factory wired to bus
    - b) Two neon bulbs for phase sequence indication – correct and incorrect
    - c) Three neon bulbs for individual phase failure indication}
  4. {Security cabinet: Cam-Loks mounted internally behind temporary cable pass-through openings to prevent unauthorized cable disconnection while in use}
  5. {Provision for field installed duplex receptacle}
  6. {Cam-Lok Snap covers}
    - a) Color-coded to match Cam-Loks
    - b) Spring activated to close when not connected
    - c) Thermoplastic covers and bodies}
  7. {Custom feature – describe}
  8. {Welded construction}
  13. {4-point 20 amp terminal strip for auto-start wires}
- E. Standards: UL 1008 Supplement SB: Standard for Accessories, Transfer Switch

## **Part 3 - EXECUTION**

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**3.1 INSTALLATION**

- A. Install as indicated and in accordance with manufacturer's recommendations and instructions
- B. Connect as indicated in one-line diagram

**END OF SECTION**