

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) 1773: Standard for Termination Boxes
 - 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
 - 1. Warranty Period: 12 months from date of installation or 18 months from date of shipment, whichever occurs first

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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) Mechanical set screw lugs
 - 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 front door
 - 6. Access panel door for field terminated cables held captive by front door
 - 7. Drip hood
- D. Optional Features
 - 1. {Temporary cable access panel interlocking micro switch}
 - 2. {Provision for Kirk Key interlock on front door & 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. (Not used)
 - 5. {Provision for field installed duplex receptacle}
 - 6. (Not used)
 - 7. {Custom feature – describe}
 - 8. {Welded construction}
 - 13. {4-point 20 amp terminal strip for auto-start wires}
- E. Standards: UL 1773: Standard for Termination Boxes

Part 3 - EXECUTION

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