

Sump Pump Control Panel Specification Document

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Sump Pump Control Panel 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 508A Listed – Industrial Control Panel

1.3 QUALIFICATIONS

- #### A. Sump pump control panel 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, short circuit current

1.5 WARRANTY

A. Factory Warranty

1. 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 SUMP PUMP CONTROL PANELS

A. GENERAL

1. Sump pump control panel is defined as a control panel intended to displace water or other liquid from one area to another by use of contactors, starters and other control mechanisms.
2. In the event the Contractor is furnishing the unit, 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. Sump pump control panel enclosure shall be NEMA Type 4/12.

- 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(s).
 - 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 with removable and interchangeable door(s) capability, removable print pocket, oil & water resistant gasketing and will include ground stud on door(s) and body for grounding.
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 4/12
 - b. UL Listed/CSA Type 4 and 12
 - c. IEC 60529 IP 66

PART 3 – EXECUTION

3.1 INSTALLATION

A. Procedures for Installation

1. Prior to installation of unit, Contractor shall examine the areas and conditions under which the unit is to be installed and notify the Engineer in writing if unsatisfactory conditions exist.
2. The unit 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.