APX Small Single Door Enclosure – NEMA 3R

Specification Sheet

I. General

A. The purpose of this specification is to provide details of an enclosure that protects internal equipment from rain, dust, vandalism and other conditions found in an outdoor or otherwise harsh environment.

B. The manufacturer must be able, upon request, to produce part numbers on all components for repair purposes. Certificates of compliance may be requested on each cabinet or on any component or part thereof.

II. Performance

A. The enclosure(s) will meet or exceed the requirements of a NEMA 3R rating and will be UL Listed.

III. Cabinet Construction

A. General

1. The cabinet enclosure will be constructed from 5052-H32, sheet aluminum alloy which has a thickness of 0.125”. Alternate material is type 304 stainless steel, minimum thickness 14 gauge. Specifier must choose either aluminum or stainless steel construction. External welds will be made by the Heliarc welding method; whereas, internal welds will be made by the wire welding method. All welds will be neatly formed and free of cracks, blow holes and other irregularities.

2. All inside and outside edges of the cabinet will be free of burrs.

3. The door opening will be double flanged on all four (4) sides. Flanges increase strength around openings and keep dirt and liquids from entering the enclosure when the door is open.

B. Door/Hardware

1. The cabinet door will be a minimum of 80% of the front surface area and will be hinged on the right side when facing the cabinet.

a) The door will be furnished with a gasket that satisfies the physical properties as found in UL 508, and will form a weather-tight seal between the cabinet and door.

2. The hinges will be continuous and bolted to the cabinet and door utilizing ¼-20 stainless steel carriage bolts and nylock nuts.

a) The hinges will be made of 0.090” thick aluminum or 0.075” thick stainless steel with a 0.25” stainless steel hinge pin.

b) The hinge will be capped by weld to render it tamperproof.

c) Hinge leaves will not be exposed externally when the door is closed, but hinge knuckles may protrude.

3. The latching mechanism will be a slam type.

a) The lock will be a keyed Corbin slam latch, or equal, and have a keyhole cover.

IV. Equipment Mounting

A. Aluminum Back Panel

1. The enclosure will be provided with a natural finish 5052-H32 aluminum back panel having a thickness of 0.125”.

2. The panel will be a natural finish. All mounting hardware will be furnished.

3. Panels are to be mounted on standoffs pressed through the back wall of the enclosure.

B. Shelves (Optional on enclosures 15” or more in depth.)

V. Cabinet Finish

A. Unless otherwise specified, the outside of the cabinet will have a smooth, uniform, natural mill finish.

B. If unpainted, the following steps will be taken as a minimum requirement:

1. The cabinet, doors and any other parts will be treated with an iron phosphate conversion technique.

2. After phosphatizing, the parts will be baked to eliminate any moisture in seams.

3. The finished coat of a polyester powder will be baked for ten (10) minutes at 400-450° F.

4. The finish will be commercially smooth, substantially free of flow lines, paint washout, streaks, blisters and other defects that would impair serviceability or detract from general appearance.

VI. Cabinet Mounting

A. Pole or Wall Mounting Enclosure

1. Enclosures will have mounting plates on the top and bottom of rear wall.

2. Mounting plates will have holes for wall mounting and vertical slots for pole mounting using banding.

VII. Approved Manufacturer

A. Cabinet is to be manufactured by APX Enclosures, Inc. or an approved UL Listed equivalent.