

PART 1 - GENERAL

1.1 SUMMARY

- .1 Comply with Division 1 - General Requirements and Section 26 05 01 Common Work Results - Electrical.

1.2 SUBMITTALS

- .1 Submit shop drawings of panels and components showing dimensional layouts, construction details, material of construction and complete component Bills of Material.
- .2 Submit to Departmental Representative at completion of the project, final record wiring diagrams. Include changes made during field installation and start-up.

PART 2 - PRODUCTS

2.1 ENCLOSURES

- .1 Materials: (unless otherwise indicated), high grade, 316 stainless steel suitable for salt air marine environment with doors and edges neatly turned in and finished smoothly, free from dents, warping and other deformations.
- .2 Finishing: phosphetize, baked enamel finish inside and outside. Interior finish, matte white; external finish, ASA #61 grey.
- .3 Wet areas: EEMAC 4X with rain hood over the entire length.
- .4 Bracing: angle or channel supporting frame braced and stiffened to prevent deformation during shipping or installation. Furnish a front kick space recess for floor mounted panel.
- 5 Doors: flush fitting, (gasketted),

piano type hinges, three point latches and locking pistol grip type handles, keyed alike. Doors to be complete with a structural locking device to hold doors open during maintenance.

- .6 Print pocket: inside each panel, complete with a set of related final record layout drawings and wiring diagrams.
- .7 Rear connected fittings: to hold equipment and instrument cases onto panel. Utilize stainless steel hardware.
- .8 Enclosure shall contain 30% empty space for future additions. Dimensions on drawing are approximate. Contractor shall establish accurate dimensions and include any adjustments in total tender price.

2.2 INTERNAL ASSEMBLY

- .1 Mounting: internal components and equipment on sub-chasses or racks, arranged for ease of access and removal.
- .2 Pans and rails: for mounting terminal blocks, wiring and similar devices.
- .3 Furnish internal luminaire with guard and toggle switch and dual 120V AC U-ground receptacle. To be factory installed.
- .4 Insulate panel interior to eliminate condensation and provide heater and control thermostat. To be factory installed.
- .5 Panelboard main disconnect device: to disconnect incoming power supply sources, with warning label indicating sources of supply.

- .6 Identification: identify switches, circuit breakers, components, terminal blocks, power supplies and similar devices.
- .7 Wiring ducts: with snap-on cover by Panduit Canada.

PART 3 - EXECUTION

3.1 INSTALLATION

1. Wrap panels in plastic during construction to protect against damage and moisture.
2. Provide panels (where indicated).
3. Assemble and erect panels on channel bases as indicated.
4. Provide wall spacers (nominally 6mm (1/4") nylon or lead washers) for wall mounted panels.
5. Install channel mounted panels on 316 stainless steel channels and fasten with stainless steel hardware. Use stainless steel anchor bolts for fastenings channels.
6. All bolts, washers, nuts, channels, etc. shall be stainless steel rated for marine environment.