

SECTION 230513 – COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. This Section specifies the motors for HVAC equipment for buildings and structures.
2. Provide all labor, materials, and equipment as necessary to complete all work as indicated on the drawings, and as specified herein for a complete operating system.
3. Applicable sections of Division 26 - Electrical

1.3 SUBMITTALS

- A. Shop Drawings

1. Motors

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70, “National Electrical Code”

PART 2 - PRODUCTS

2.1 Motors

- A. Motors 1/3 HP and smaller shall be 120 volts, single phase. Motors 1/2 HP and larger shall be 208, 230, or 460 volts, 3 phase. Motors shall be size and rating as indicated on the drawing.

Motors that are an integral part of special equipment may vary from above to meet manufacturing standards.

Note information to be noted on drawing.

- B. Motors shall be NEMA Design B, Class B, 1.15 S.F. at 40 deg. C ambient or 1.00 S.F. at 65 deg. C ambient.
- C. Motors 1-1/2 HP and larger shall be cast iron heavy duty premium efficiency inverted rated T Frame.
- D. Motors shall be grounded with manufacturer's supplied grounding kit.
- E. All motors shall be ball bearing type. Ball bearings shall be sealed on both sides, manufactured be Fafnir, FAG, or SKF.
- F. Motors served by variable frequency drives shall have an AEGIS SGR bearing protection ring.
- G. Motor enclosure shall be suitable for the service conditions.
- H. Motors shall be Super-E manufactured by Baldor, EQP manufactured by Toshiba, or approved equal.

PART 3 - EXECUTION

Not Used

END OF SECTION 220513