MOTORS

DESIGN GUIDELINES

1. Summary:
   a. This section provides guidelines and standards for Motors.
   b. Location of equipment and what it serves determines quality of motor, bearings, etc.

2. General
   a. All motors shall be high efficiency rated and shall have Copper windings only.
   b. Motors to be VFD rated NEMA MG1 part 31.
   c. Motor mounts - Belt
      • 2” adjustable.
      • Not spring mounted.
   d. Explosion-proof motors – see specific equipment for requirements.
   e. Bearing
      • 3 phase motors shall be greaseable.
      • Bearing life shall not be less than 200,000 hours.

3. Related Sections
   a. Enclosed Motor Controllers
   b. Variable Frequency Controllers
   c. AHU’s
   d. RTU’s

EQUIPMENT and PRODUCT REQUIREMENTS

1. Approved Motor Manufacturers:
   a. Marathon
   b. US Motor
   c. Toshiba.

2. Unacceptable Motor Manufacturers:
   a. Baldor.
   b. ECM type.

END OF SECTION