

MOTORS

1. GENERAL

1.1 References

- .1 Canadian Standards Association (CSA)
 - .1 CSA C22.2 No. 100, Motors and Generators.
- .2 Electrical and Electronic Manufacturers' Association of Canada (EEMAC)
 - .1 EEMAC M1-7, Standard for Motors and Generators.
 - .2 EEMAC M2-1, Standard for Lead Marking and Connections for Single-Phase and Polyphase Induction Motors.

1.2 Submittals

- .1 Submittals: in accordance with Section 01 33 00 - Submittal Procedures.

1.3 Delivery, Storage And Handling

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Handle motors with suitable lifting equipment.
- .3 Store motors in heated, dry, weather-protected enclosure.

2. PRODUCTS

2.1 Materials

- .1 Motors: to CSA C22.2 No. 100 and EEMAC M1-7.
- .2 Lead markings: to EEMAC M2-1.
- .3 Acceptable product: Westinghouse or approved equal.

2.2 Corrosion Prevention and Finish Painting

- .1 Provide equipment resistant to corrosion from severe moisture conditions.

2.3 Motor Type and Rating

- .1 Electrical trade shall provide motors for pumps P-19, P-20, P-21, and P-22.
 - .1 600V, 3-PH, 60 Hz.
 - .2 Premium efficiency, 1.15 S.F.
 - .3 NEMA Design B or C, Continuous duty

MOTORS

- .4 Inverter duty rated for use with VFDs.
- .5 Class F Insulation, Class B temperature rise, 40 degrees C ambient.

- .2 Other motors on drawings provided with mechanical pump packages.

2.4 Enclosure

- .1 Totally enclosed fan cooled.

2.5 Application

- .1 Motor suitable for driving pump or compressor.

2.6 Bearings

- .1 Antifriction type bearings, fitted with readily accessible facilities for lubrication while motor running or stationary.

2.7 Motor Mounting and Terminal Housing

- .1 Mounting and frame shall match existing motor installation.

2.8 Shaft

- .1 Shall match existing motor installation.

3. EXECUTION

3.1 Manufacturer's Instructions

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 Installation

- .1 Dry out motor if dampness present in accordance with manufacturer's instructions.
- .2 Install motor at existing motors to be replaced rigid plumb and square, using only lifting facilities provided.
- .3 Make wiring connections and grounding.
 - .1 Use liquid tight pvc jacketed flexible conduit between rigid conduit and motor.
- .4 Make flexible conduit long enough to permit movement of motor over entire length of slide rails.
- .5 Check for correct direction of rotation, with motor uncoupled from driven equipment.

MOTORS

- .6 Align and couple motor to driven machinery to manufacturer's instructions, using only correct parts such as couplings, belts, sheaves, as provided by manufacturer.

3.3 Field Quality Control

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.

END OF SECTION