SECTION 16482D - MOTOR STARTERS

A. Application: Every motor shall be provided with a motor starter, unless motor has integral motor overload protection.

Motors that have inrush current that exceeds 40% of the building transformer rating shall be equipped with reduced voltage starters either star-delta closed transition type, auto transformer, solid state, soft start, or current ramp type.

B. Construction:

1. Starters for three phase motors shall be minimum size 1, fusible combination type. Starter for single phase motors shall be equipped with melting alloy type thermal overload. If overload device is removed starter shall be inoperative.

2. Three phase starters shall utilize individual, fused, control power transformer, mounted within starter enclosure. Control devices shall be cover mounted on starter door. Each three phase starter shall have a push-to-test pilot light, that is energized when load is energized and provisions for two N.O. and N.C. auxiliary contact’s in addition to the interlock contact.

C. Installation:

1. Motor starters may be individually mounted, however if there are four or more, it is preferred to mount them in a motor control center.

2. Where motor control centers are used, provide a 4” high concrete housekeeping pad.

3. Manual starters located in finished spaces shall be flush mounted.

END