

26 29 00 Low Voltage Controllers

1. Variable Frequency Drives

- 1.1. All VFD's shall have a bypass option unless the application does not allow bypass operation.
- 1.2. All VFD's shall be BACnet compatible. However, start/stop, status (i.e. running), and speed signals to/from the VFD shall be hardwired.
- 1.3. ABB is the preferred manufacturer of VFD's. ABB ACH (HVAC) series drives shall be the standard.

2. Motor Starters

- 2.1. Motor starters shall be NEMA rated.
- 2.2. All three phase motor starters must be equipped with protective devices that will disconnect the motor completely from the supply in the event of an overcurrent or sustained overload condition and prevent single phasing.
- 2.3. Solid state motor starters shall have proper temperature, overcurrent and overvoltage protection included in the design. The starters shall be shipped with proper fuses installed.
- 2.4. Combination motor starters shall have, at a minimum, a status LED (i.e. running), an auto/off/manual selector switch, and a 120 volt (secondary) control transformer.
- 2.5. Motor status shall be acquired through current switches, not auxiliary contacts on the contactor.
- 2.6. Documentation shall include manufacturer's catalogue data, shop drawings, manufacturer's replacement parts list, operation and maintenance data.