



File: EQUIPMENT MANUAL - Section 100
Replaces: NOTHING (New Information)
Dist: 1, 1a, 1b, 1c, 4, 4b, 4c

VARIABLE SPEED DRIVE
INSTALLATION GUIDELINE
ACS800 Quick Start Guide

A. Installation Checks

- 1. Branch circuit protection must be provided for the drive. Drive package with bypasses, that come with an integral main fused disconnect, are sized to protect the drive package
2. Environmental Concerns
a. Clean: Keep construction debris out of drive and/or cabinet
b. Dry: maximum 95% relative humidity noncondensing
c. Cool: 32°F - 104°F Ambient temperature. Confirm air flow into cabinet
d. Elevation: 3300 feet above sea level w/o derate
e. Warm: If the drive is to operate below 32°F, install enclosure ambient space heater
3. Mounting
a. N1 drives are floor mounted or wall mounted, vertical, with minimum 4" space required on sides and top for cooling
4. Wiring
a. Separate grounded metal conduits must be provided for input power, output power, and control wiring. Failure to provide separate conduits could result in disruption of other electrical devices due to harmonics and REI/EMI generated by the drive
b. Conduit should be bonded to drive cabinet
c. On drives with bypasses, the interlock and remote run commands are at 120VAC potential. See wiring diagram in drive enclosure for connection detail
d. Use conduit knockouts provided. Avoid metal shavings in the drive enclosure. Clean out all debris
e. Protect signal wires from noise. Be sure to use shielded and properly grounded signal wires. Noisy input signal wires can cause erratic drive operation
f. Ground each drive package individually

