Application Note – Drive On/Off Strategies

Requirement: ***Identify the different ways drives can be turned on/off, and advantages of each***

Solution:

1. **Cycle source power** – this is the safest and most complete method. ACCEL settings functional but DECEL is bypassed. Not recommended for rapid drive cycling applications as power off/on creates delay during power up waiting for internal power supply to become active. Note: **-29 Option** 4PDT switch breaks source power to drive when in center position
2. **Inhibit** – this method leaves source power connected to the drive but inhibits motor armature output by collapsing the internal power supply, disabling driver circuit logic. ACCEL and DECEL settings are bypassed. There are advantages to this method – this method is recommended for on/off cycling applications as internal power supply is maintained throughout and delay is avoided. In addition switch or relay contact used are switching very low power.
3. **Break POT HI / WIPER** – another low-power method of switching the drive on and off, simply break either the POT HI or WIPER lead. This method leaves both ACCEL and DECEL settings functional

Valid for Dart Models:

13/15 Series; 65 Series; 125 Series; 130/132 Series; 253 Series; 530 Series

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