

Multiple Motors for a Single VFD Application

1. Max # of Motors for a single VFD
 - The maximum number of motors for a single VFD is 4
2. How to calculate the VFD required based on the Motor used
 - The drive is sized using the sum of all the FLAs of the Motors to be connected to a single VFD, not the sum of the HP
3. Do all motors have to be same HP
 - The motors don't need to be the same size, but keeping them somewhat close in HP is better
4. Protection required on the output (if more information is available than what is published in the Apps note)
 - Each motor must have an individual motor OL with an AUX contact to shut the drive down

For the SMV family of drives, in a Single Drive / Multiple Motors configuration, you have to set parameter P300 to mode 0 or 1

- 0: Constant V/Hz
- 1: Variable V/Hz