

## APPLICATION NOTE

### Can Toshiba ASD's be used on motors much smaller than the drive rating?

Simple answer is yes from 10 to 100% of the ASD Rated current.

For most applications, ASD's are selected that have an output current rating similar to the nameplate current rating of the motor. Some applications such as conveyors, mills, compressors and other constant torque machines may require sizing the ASD to a larger rating in order to handle the over current / peak current demands of the load.

Toshiba ASD's may be used on any smaller motor as long as the motor full load current is greater than 10% of the ASD rated current. Toshiba ASDs allow adjustment of the electronic thermal overload to deliver 10 to 100% of the rated ASD output current and some higher currents for shorter periods of time.

Please contact Toshiba Application Engineering group for sizing your ASD for a given application.

For Low Voltage Drives please contact: [asdmarketing@tic.toshiba.com](mailto:asdmarketing@tic.toshiba.com)

For Medium Voltage Drives please contact: [casd\\_quotes@tic.toshiba.com](mailto:casd_quotes@tic.toshiba.com)

Note:

- (a) For applications using V/Hz, 10 to 100% of the ASD Rated Current is acceptance.
- (b) For application requiring the use of Automatic Torque Boost, Sensorless Vector, or PG Feedback vector control are used the current loop and speed loop gains need to be adjusted if the motor's FLA is less than 50% (approximately) of the drive's FLA .