## 2.17.3 Jitter

Jitter of the disk motor speed shall be less than 1.8% peak - peak when measured at a motor speed of between 390 and 605 RPM. Jitter is defined as:

$$Jitter = \frac{4 \text{ Sx}}{\text{Sm}} \times 100\text{Z}$$

where: Sx is the standard deviation of the TACH pulse period sampled randomly 100 points and Sm is the mean of Tach pulse period.

## 2.17.4 Thermal drift

Thermal drift of disk motor speed for any speed between 390 and 605 rpm shall be less than 3%. The definition of the thermal drift:

Thermal drift = 
$$\frac{Vx - Vr}{Vr}$$
 | x 100%

where : Vr : Disk motor speed at 25 C ambient temperature.

Vx : Disk motor speed between 5 C to 50 C ambient temperature.

## 2.17.5 Initial drift

Initial drift of disk motor speed shall be less than 1.0%. Initial drift is defined as:

Initial drift = 
$$\begin{vmatrix} vx - vr \\ \hline vr \end{vmatrix}$$
 x 100%

where: Vr: Disk motor speed at 1 sec after disk motor is turned on.

Vx : Disk motor speed at 120 sec after disk motor is turned on.

## 2.17.6 Speed - Torque characteristics

The change of speed with torque is:

Ratio of speed/torque: -0.25% /gram cm

SIZE A DRAWING NUMBER

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SCALE:

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