

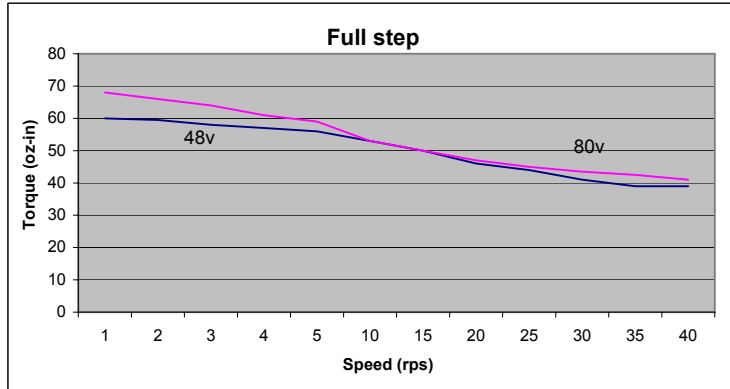


Motor/ Drive torque speed test data

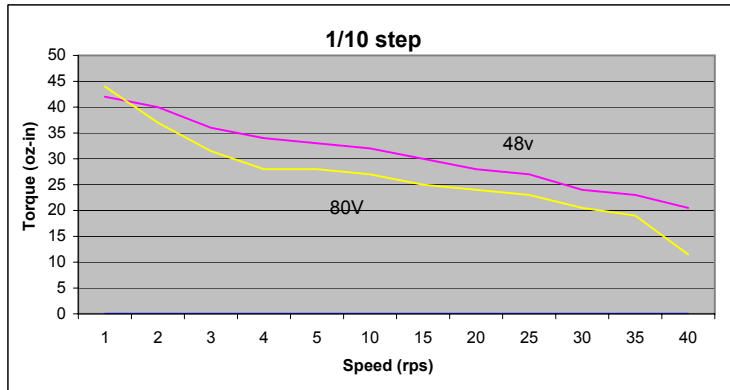
| | |
|--------------------|------------------|
| Drive | 7080 |
| Motor | HT23-395 |
| Current | 4.2A |
| Connection | Parallel |
| Voltages | 24-48-80 |
| Resolutions | Full/2000 |

| Test Parameters | |
|------------------------|-----------|
| Test Date | 9/15/2003 |
| Test Rig | Magtrol |
| Other | |

| Resolution | Full | | |
|--------------------|-----------------------|------------|------------|
| Speed (rps) | Torque (oz-in) | | |
| Voltage | 24V | 48V | 80V |
| 1 | 0 | 60 | 68 |
| 2 | 0 | 59.5 | 66 |
| 3 | 0 | 58 | 64 |
| 4 | 0 | 57 | 61 |
| 5 | 0 | 56 | 59 |
| 10 | 0 | 53 | 53 |
| 15 | 0 | 50 | 50 |
| 20 | 0 | 46 | 47 |
| 25 | 0 | 44 | 45 |
| 30 | 0 | 41 | 43.5 |
| 35 | 0 | 39 | 42.5 |
| 40 | 0 | 39 | 41 |



| Resolution | 2000 | | |
|--------------------|-----------------------|------------|------------|
| Speed (rps) | Torque (oz-in) | | |
| Voltage | 24V | 48V | 80V |
| 1 | 0 | 42 | 44 |
| 2 | 0 | 40 | 37 |
| 3 | 0 | 36 | 31.5 |
| 4 | 0 | 34 | 28 |
| 5 | 0 | 33 | 28 |
| 10 | 0 | 32 | 27 |
| 15 | 0 | 30 | 25 |
| 20 | 0 | 28 | 24 |
| 25 | 0 | 27 | 23 |
| 30 | 0 | 24 | 20.5 |
| 35 | 0 | 23 | 19 |
| 40 | 0 | 20.5 | 11.5 |



NOTE

Information for these curves is derived from physical tests on a dynamometer with the selected motor and drive. Curves indicate the point at which the motor stalls and may not show system resonances. When selecting a motor customers should allow a suitable safety margin.

Performance is application dependant and will vary with different mechanical arrangements. Mounting and ambient temperature will also effect thermal characteristics and thus modify the motors ability to deliver the stated torque continuously.