

3535 Step Motor Drive

Full & Half Stepping
3.5 amps, 35 VDC

Features

- DC bus voltage 12-35 VDC motor supply (including ripple)
- Switch selectable motor current from 0.4–3.5 amps/phase
- Switch selectable full or half step
- Automatic 50% idle current reduction
- Optically isolated 5 VDC inputs for step, direction and enable
- Enable input to turn off current to the motor
- 122 watts of usable power
- Screw terminal connectors
- MOSFET, dual H-bridge, inaudible PWM amplifier
- 3 state, pulse width modulated current control, switching at 20–30 KHz
- Drives 4, 6 or 8 lead size 11, 14, 17 or 23 step motors
- CE compliant

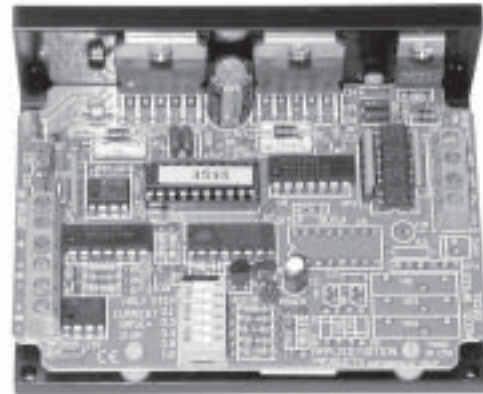
Description

The 3535 step motor driver is a full or half drive, step phase sequencer with MOSFET three state switching amplifiers and optoisolated circuits. The drive also includes an automatic feature to lower motor current by 50% anytime the motor is left at rest for more than one second.

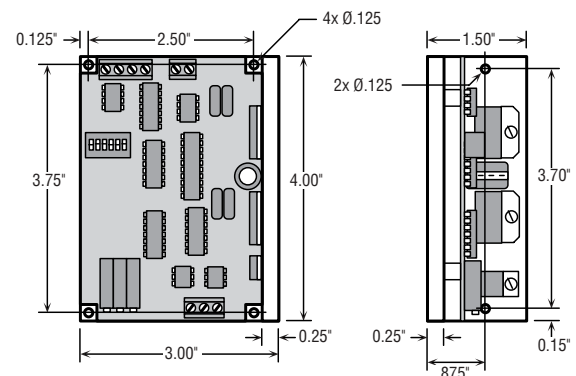
The amplifier regulates motor current by chopping at a constant, inaudible frequency. Phase current is selected from 32 levels by a DIP switch. Full or half resolution is DIP switch selected.

Recommended motors for the 3535 drive:

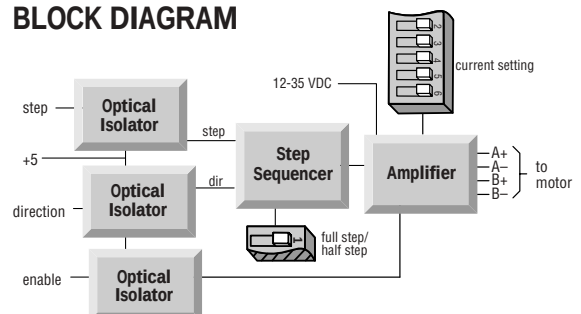
Size 11	Size 14	Size 17	Size 23
HT11-012	5014-842	HT17-068	HT23-394
HT11-013		HT17-071	HT23-397
		HT17-075	HT23-400



MECHANICAL OUTLINE

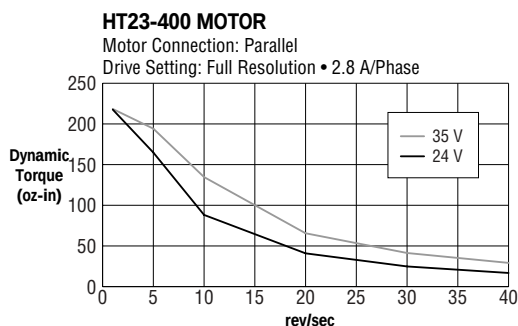
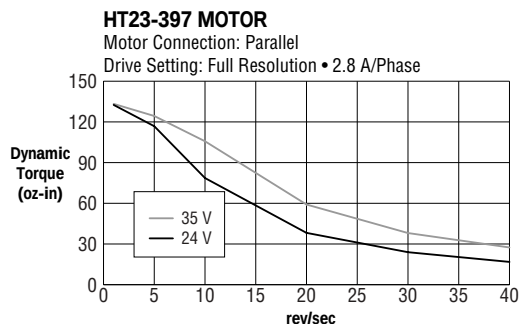
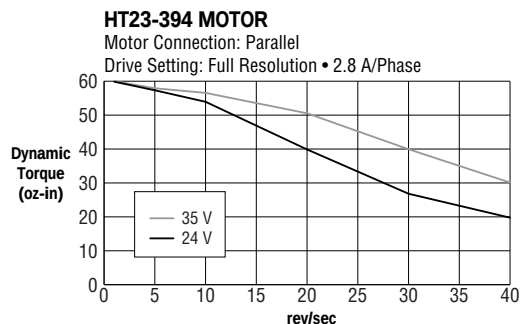
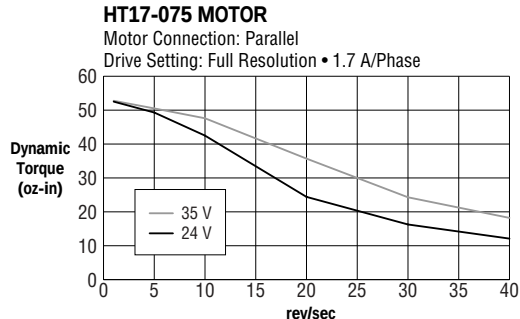
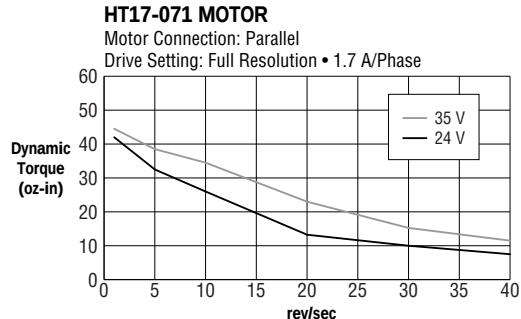
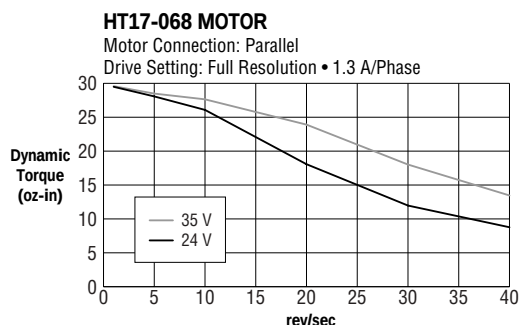
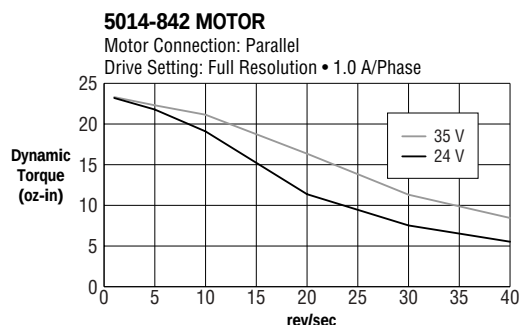
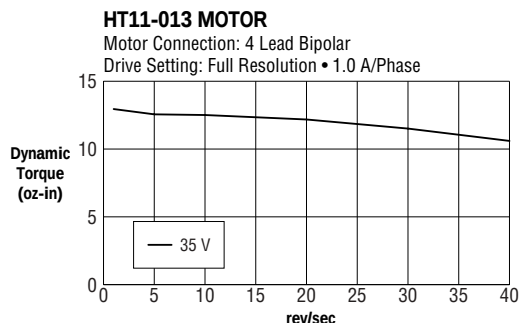
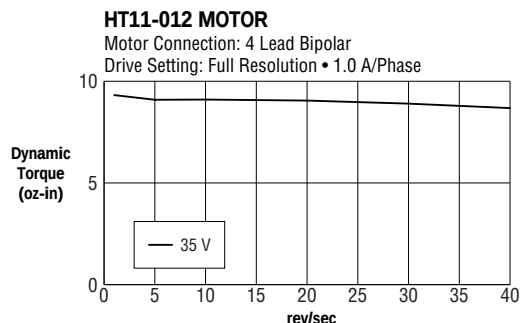


BLOCK DIAGRAM





3535 Torque Curves



Mouser Electronics

Authorized Distributor

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