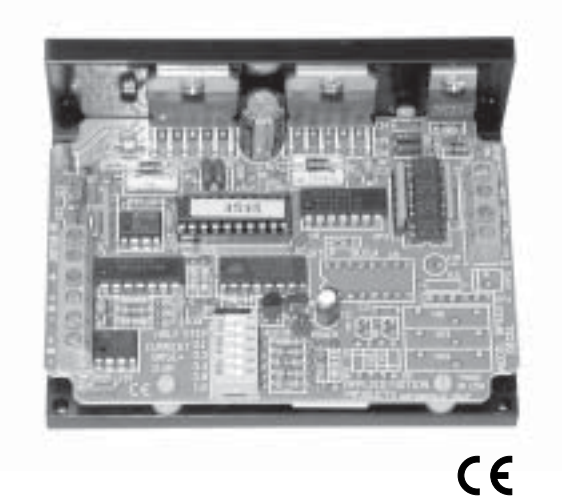
Applied Motion Products

404 Westridge Dr. • Watsonville, CA 95076
831/761-6555 • 800/525-1609 • FAX 831/761-6544
www.appliedmotionproducts.com

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

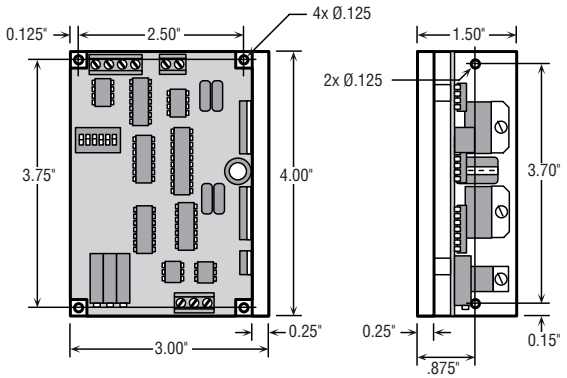
The 3535 step motor driver is a full or half drive, step phase sequencer with MOSFET three state switching amplifiers and optoisolated circuits. The drive also includes an automatic feature to lower motor current by 50% anytime the motor is left at rest for more than one second.

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.

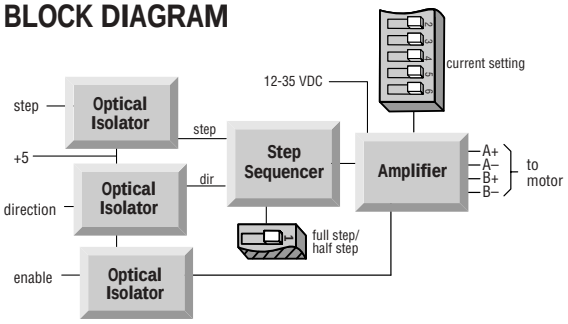
Recommended motors for the 3535 drive:

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



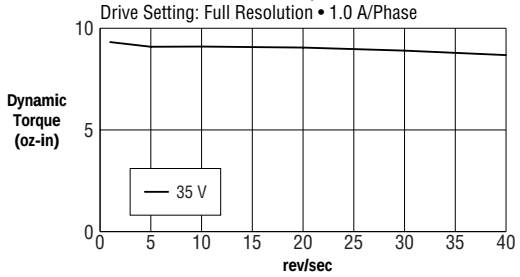
BLOCK DIAGRAM



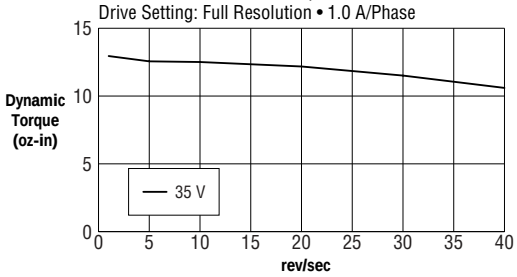
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3535 Torque Curves

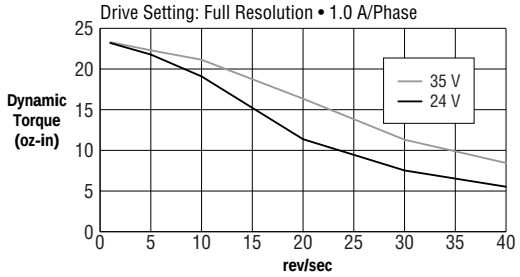
HT11-012 MOTOR
Motor Connection: 4 Lead Bipolar
Drive Setting: Full Resolution • 1.0 A/Phase



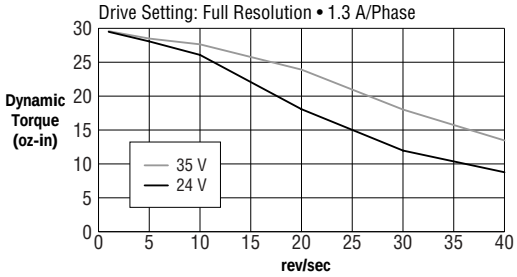
HT11-013 MOTOR
Motor Connection: 4 Lead Bipolar
Drive Setting: Full Resolution • 1.0 A/Phase



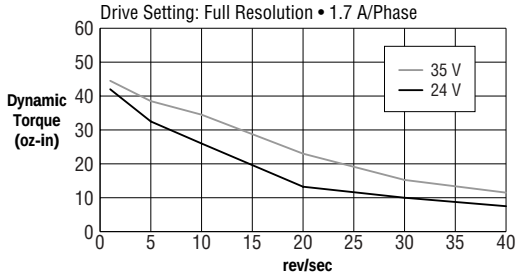
5014-842 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 1.0 A/Phase



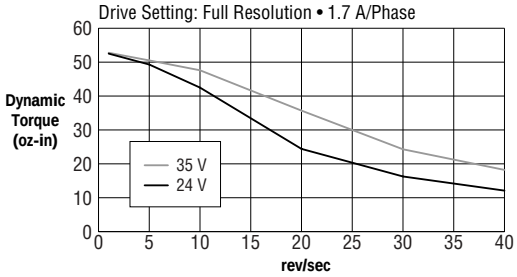
HT17-068 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 1.3 A/Phase



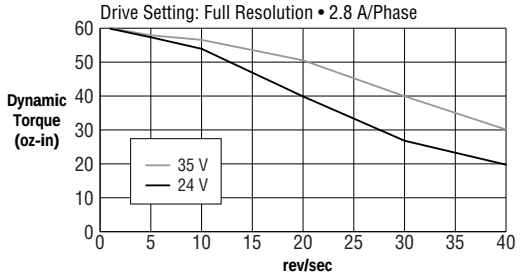
HT17-071 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 1.7 A/Phase



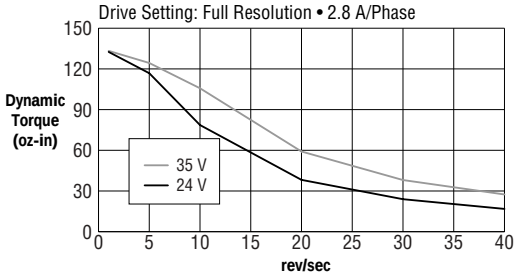
HT17-075 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 1.7 A/Phase



HT23-394 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 2.8 A/Phase



HT23-397 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 2.8 A/Phase



HT23-400 MOTOR
Motor Connection: Parallel
Drive Setting: Full Resolution • 2.8 A/Phase

