



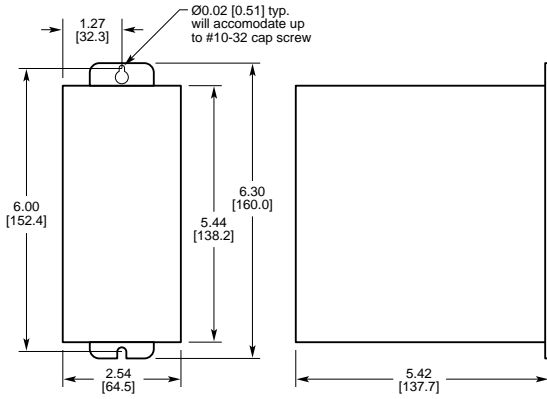
	NextStep®	NextStep®-240
AC Power Input	90-120 VAC Single Phase, 50/60 Hz	100-240 VAC Single Phase, 50/60 Hz
Motor Current	500 VA max, @ 7.9 amp setting 0-7.9 amps, 0.1 amp increments If current setting is higher than 6 amps, drive will fold back current to 6 amps when the motor is at rest	500 VA max, @ 3.9 amp setting 0-3.9 amps, 0.1 amp increments No automatic current fold back feature in NextStep®-240
Bus Voltage	160 VDC nominal	320 VDC nominal
Standard Resolutions	5000, 10000, 18000, 20000, 25000, 25400, 36000, 50000	
Low Resolution Option	200, 400, 1000, 2000	
Motor Compatibility		
Type	2 phase, hybrid permanent magnet, 1.8° full step	
Inductance	2-60 mH for NextStep®, 8-240 mH for NextStep®-240. Motor inductance less than 10 mH set dipswitch to low. Greater than or equal to 10 mH set to high. Combines with Auto Adjusting Current Loop to optimize performance of any inductance step motor .	
Amplifier		
Switching Frequency	20 kHz	
Protection		
Short Circuit	Amp disabled if phase to phase, or phase to ground short detected	
Brownout (Under Voltage)	Amp disabled if supply drops below 90 VAC (100 VAC for -240 version)	
Over Temperature	Amp disabled if heatsink exceeds 65° C	
Interlock	Amp disabled if interlock connection is broken on motor connector	
Regen/Over Voltage	Amp disabled if regen condition causes bus voltage to exceed 220 VDC for 120 VAC input voltage, or 440 VDC for 240 VAC input voltage	
Rest (Current Settings)	Switch Selectable. If selected, will reduce motor current to 1 amp after no motion has occurred for 20 minutes. Full current level will resume upon receipt of next step pulse. Reduces drive and motor temperature	
Idle (Current Settings)	Switch Selectable. If selected will reduce current to 75% of drive setting if no step pulses are received for 10 ms. Full current level will resume upon receipt of next step pulse. Reduces drive and motor temperature.	
Waveform	Switch Selectable. Configures the shape of the current waveform. Default is pure sinusoid. Turning switch On changes waveform to -4% 3 rd harmonic. Optimizes smoothness and step-to-step accuracy.	
Command Interface		
Inputs	Step, direction, and shutdown are optically isolated. (6.5 ma min, 15 ma max) CW/CCW mode is optional & must be ordered from the factory.	
Step	250 nsec min width, 2 Mhz max pulse rate, triggered on rising edge	
Direction	Logic Low = CW rotation, High = CCW rotation. Direction of motor rotation (CW/CCW) is determined by looking down the motor towards the load. A 0.4 µs set up time is required after a direction change before next step pulse is sent to the drive.	
Shutdown	Current Conducting = Amp Disabled, Current not Conducting = Amp Enabled	
Fault Output	Optically isolated NPN, Collector (Fault+) and Emitter (Fault-) connections available. Fault output is normally ON (current flowing)	
LED Indications	Steps Received, Direction Received, Over-Voltage, Thermal Shutdown, Under Voltage, Interlock, Regen, Short Circuit	
Environment		
Operating Ambient Temp.	Max. ambient temperature of 50°C (122°F) @ 6 amps current setting	
Storage Temperature	-40°C to 80°C (-40°F to 176°F)	
Humidity	0% to 90% non-condensing	
Dimensions	5.4 x 5.4 x 2.5 inches	



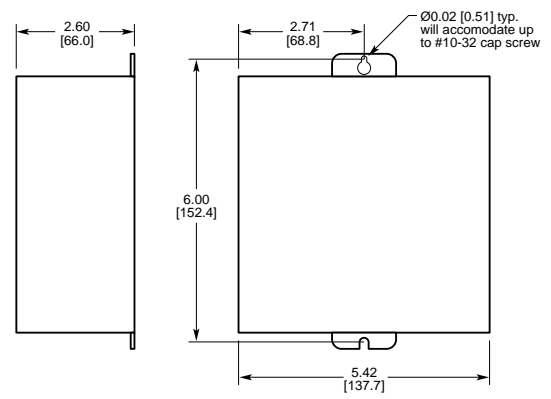


Mounting Dimensions in [mm]

Minimum Width (Standard)



Minimum Depth (must order as an option)



How To Order

Model	Description	Options	Description
NextStep®	Single axis, 7.9 amp microstepping drive 120 VAC input voltage	LRES	Low drive resolution
NextStep®-240	Single axis, 3.9 amp microstepping drive 240 VAC input voltage	CW	CW/CCW option
		MD	Minimum depth mounting option



To confirm your selection, review the checklist on page G-6.