


SureStep™ STEPPING SYSTEMS

SureStep™ Series Specifications – Microstepping Drive		
Microstepping Drive	STP-DRV-4035 	
Price	<--->	
Input Power (with power on red LED)	12-42 VDC (including ripple voltage)	
Output Power	Output current selectable from 0.4 to 3.5 Amps/phase motor current (maximum output power is 140 W)	
Current Controller	Dual H-bridge Bipolar Chopper (3-state 20 kHz PWM with MOSFET switches)	
Input Signals	Input Signal Circuit	Opto-coupler input with 440 Ohm resistance (5 to 15 mA input current), Logic Low is input pulled to 0.8 VDC or less, Logic High is input 4 VDC or higher
	Pulse Signal	Motor steps on falling edge of pulse and minimum pulse width is 0.5 microseconds
	Direction Signal	Needs to change at least 2 microseconds before a step pulse is sent
	Enable Signal	Logic 0 will disable current to the motor (current is enabled with no hook-up or logic 1)
DIP Switch Selectable Functions	Self Test	Off or On (uses half-step to rotate 1/2 revolution in each direction at 100 steps/second)
	Microstepping	400 (200x2), 1,000 (200x5), 2,000 (200x10), or 10,000 (200x50) steps/rev
	Idle Current Reduction	0% or 50% reduction (idle current setting is active if motor is at rest for 1 second or more)
	Phase Current Setting	0.4 to 3.5 Amps/phase with 32 selectable levels
Drive Cooling Method	Natural convection (mount drive to metal surface if possible)	
Dimensions	3 x 4 x 1.5 inches	
Mounting	Use #4 screws to mount on wide side (4 screws) or narrow side (2 screws)	
Connectors	Screw terminal blocks with AWG 18 maximum wire size	
Weight	9.3 oz. (264 g)	
Chassis Operating Temperature	0 °C to 55 °C recommended, 70 °C maximum (use fan cooling if necessary)	
Agency Approvals	CE (complies with EN55011A and EN50082-1 (1992))	

Dimensions

