

STR4

DC Advanced Microstep Drive

1pc. - 190.00
50pc. - 142.50



Product Features

- *Current range 1.12A to 4.5A peak of sine*
- *Electronic damping (anti-resonance)*
- *Microstepping & microstep emulation*
- *Built-in self test move profile*
- *Step & direction inputs*
- *CW Pulse/CCW pulse operation*
- *Idle current reduction*
- *Selectable digital input filter*



Description

The STR4 stepper drive is a compact, powerful, digital step & direction drive, great for OEM applications requiring basic step & direction control of a 2-phase step motor. The STR4 outputs up to 4.5 A/phase to the step motor, and is compatible with a variety of 2-phase step motors that have been selected to optimize performance of both the drive and motor.

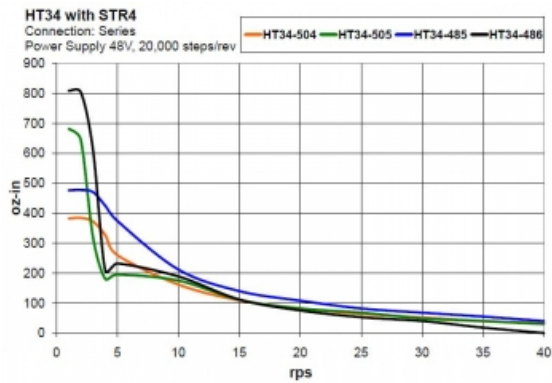
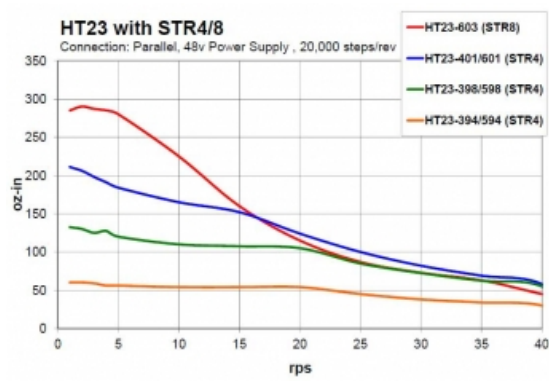
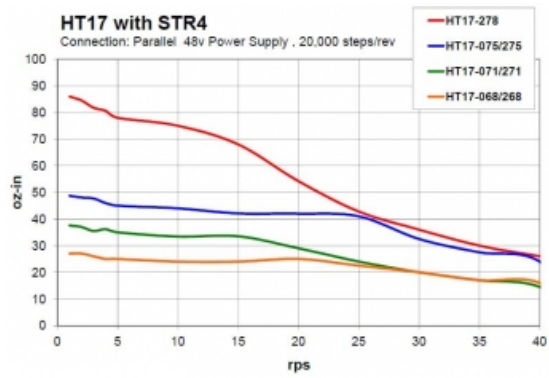
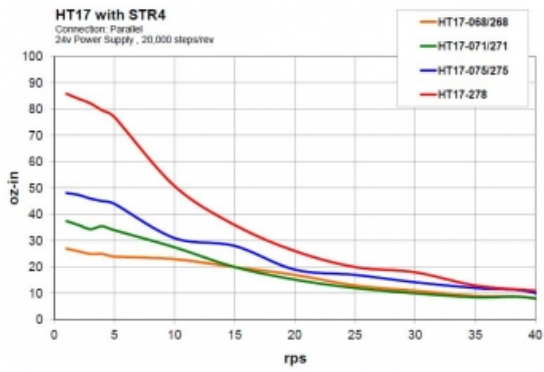
The STR4 drive features advanced microstepping performance and sophisticated current control with anti-resonance. Anti-resonance electronically damps motor and system resonances, which improves motor smoothness and torque over a wide speed range.

Each STR4 step motor drive operates in either Step & Direction or Pulse/Pulse control mode. Selecting between these two modes is done by moving a jumper located under the cover of the drive. Each STR4 drive can microstep up to 20,000 steps/rev with a 1.8° step motor (1/100 step), and can even microstep the step motor when the command pulses are low resolution. This feature is called Microstep Emulation. All drive setup is done via dip switches and a rotary switch on the side of the drive, including motor selection, running current, idle current, and step resolution.









Specifications

Model Number:	STR4
Part Number:	5000-154
Supply Voltage:	24-48 VDC
Supply Voltage Type:	DC
Control Modes:	Step & Direction
Output Current:	1.12-4.5 A/phase
Encoder Feedback:	No
Step Resolution:	Full Half Microstepping Microstep Emulation
Idle Current Reduction:	50% or 90%
Setup Method:	Switch / potentiometer
Digital Inputs:	3
Digital Outputs:	1
Analog Inputs:	0
Dimensions:	4.65 x 2.97 x 1.30 inches
Weight:	10.8 oz
Operating Temperature Range:	0 to 70 °C
Ambient Temperature Range:	0 to 50 °C
Ambient Humidity:	90% max, non-condensing
Status LEDs:	1 red, 1 green
Circuit Protection:	Short circuit Over-voltage Under-voltage

Torque Curves



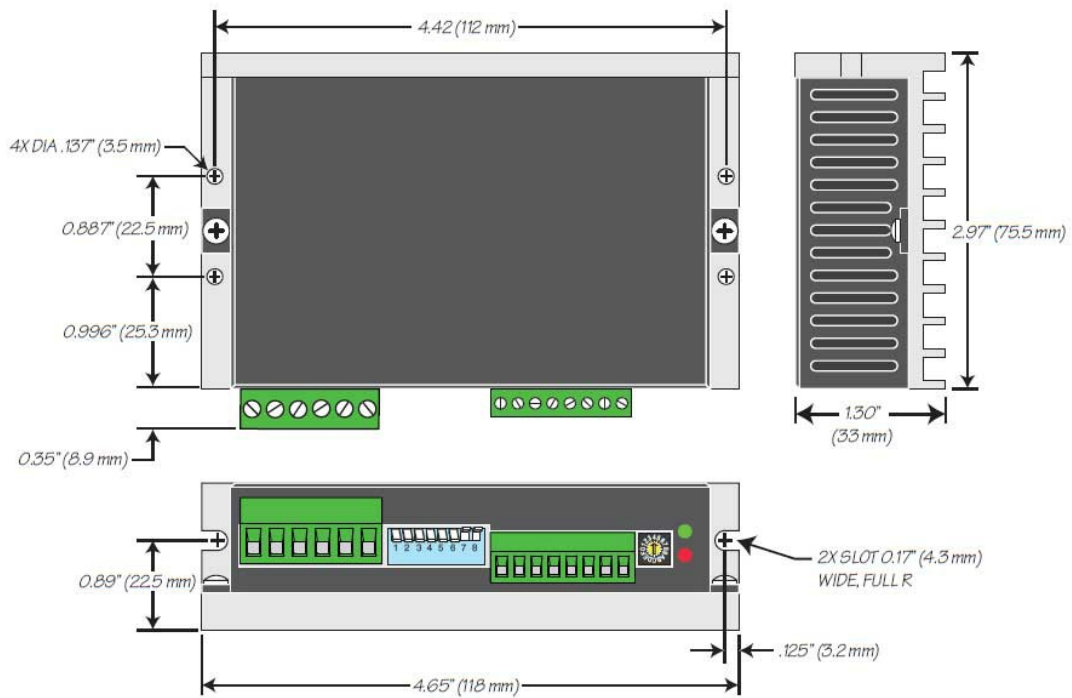
Downloads

Manuals:	 STR_Quick_Setup_Guide.pdf  STR4-8_HardwareManual_920-0030J.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/STR4.pdf
Family Datasheet:	 STR_Datasheet_925-0002.pdf
2D Drawing:	 STR4_8_drawing.pdf  ST4_8_simple_3D.pdf
3D Drawing:	 STR4_8.igs
Speed-Torque Curves:	 STR4-8 Hardware Manual 920-0030H_TorqueCurves.pdf
Agency Approvals:	 STR_CE_DOC.PDF

Pricing

	STR4 Part No. 5000-154
1pc.	\$190.00
25pc.	\$163.40
50pc.	\$142.50
100pc.	Request a Quote for 100+ piece pricing.

2D Drawings



Products in the Series *STR Stepper Drives*

Number	Supply Voltage	Control Modes	Output Current	Communication Ports	Encoder Feedback	1pc./50pc.
STR2	12-48 VDC	Step & Direction	0.3-2.2 A/Phase	NA	No	\$97.00 / \$72.75
STR4	24-48 VDC	Step & Direction	1.12-4.5 A/Phase	NA	No	\$190.00 / \$142.50
STR8	24-75 VDC	Step & Direction	2.35-8.0 A/Phase	NA	No	\$217.00 / \$162.75