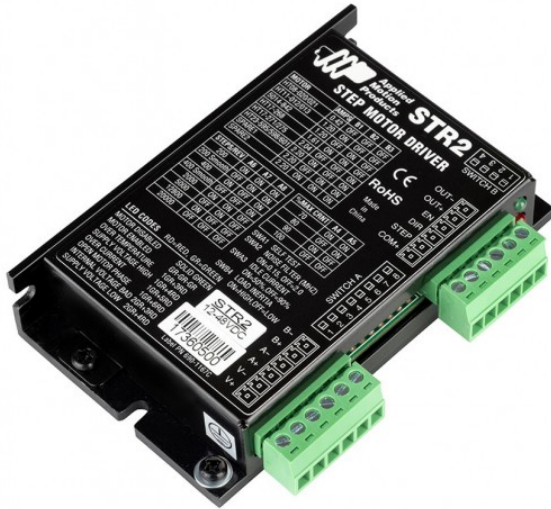


STR2

DC Powered Advanced Microstep Drive



Product Features

- Ultra compact size
- Current range 0.3 to 2.2 A/phase, 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 STR2 stepper drive is an ultra compact, digital step & direction drive, great for OEM applications requiring basic step & direction control of a 2-phase step motor. The STR2 outputs up to 2.2 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 STR2 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 STR2 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 STR2 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 on the side of the drive, including motor selection, running current, idle current, and step resolution.

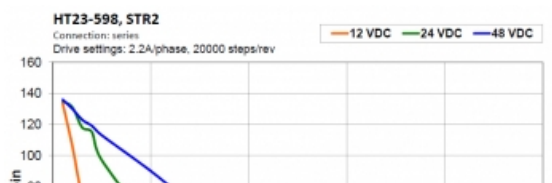
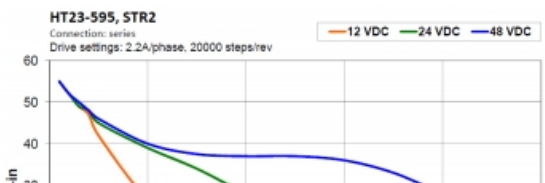
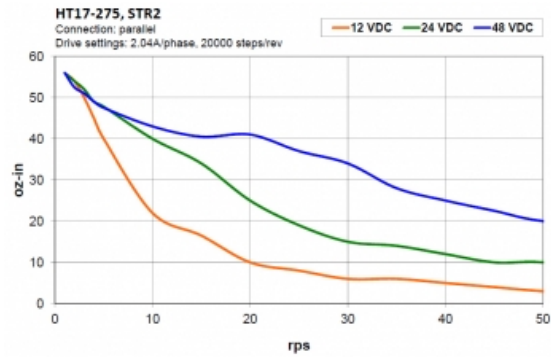
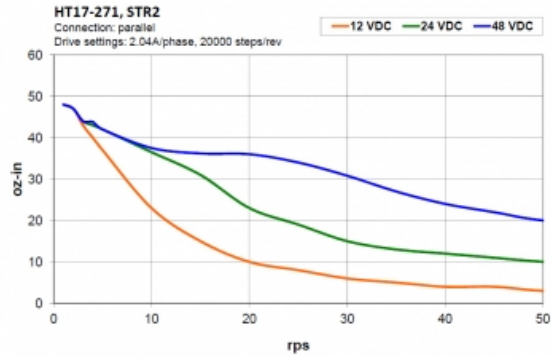
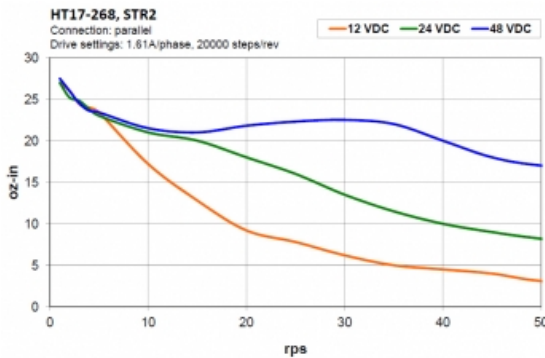
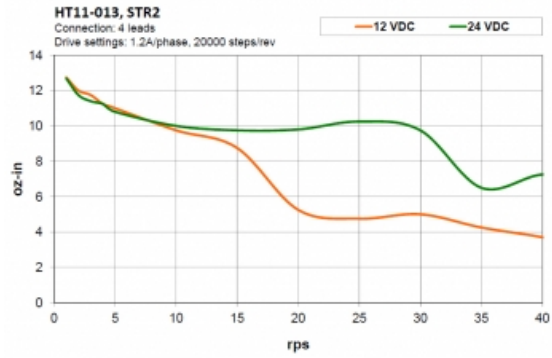
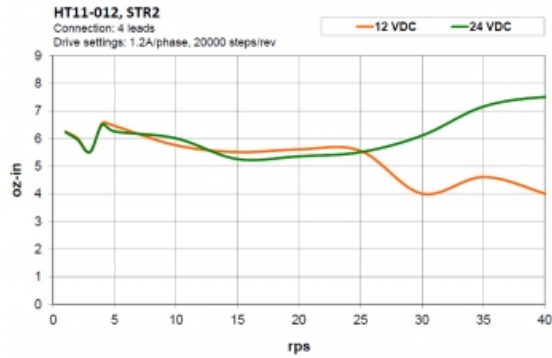
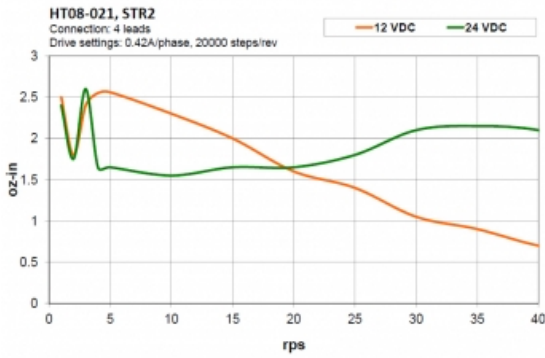
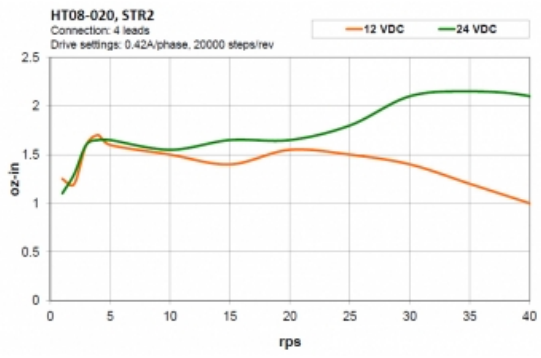
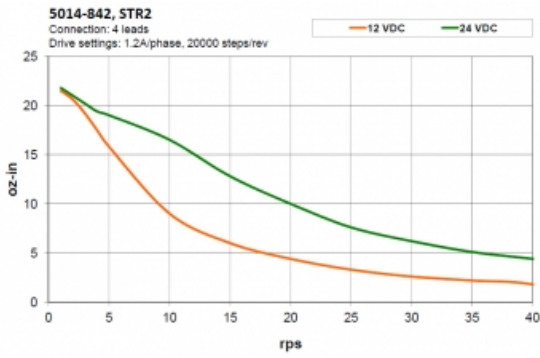
This step pulse & direction motor drive is designed with sourcing inputs and intended for use with PLC's and motion controllers that have sinking outputs. For more information on wiring, including example diagrams, please refer to the hardware manual in the Downloads section of this page.

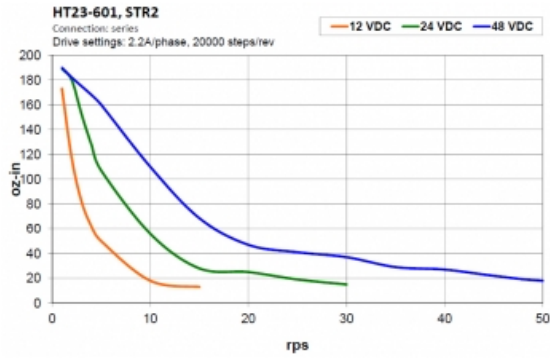
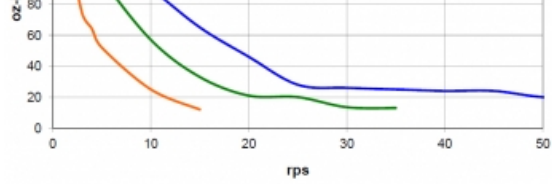
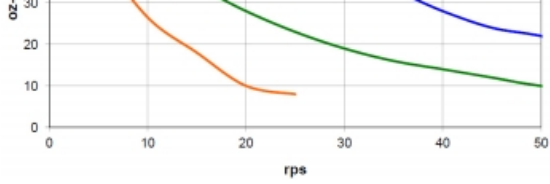
The STR2 is UL Recognized (File No. E332730), CE approved, and RoHS compliant.

Specifications

Model Number:	STR2
Part Number:	5000-235
Supply Voltage:	12-48 VDC
Supply Voltage Type:	DC
Control Modes:	Step & Direction
Output Current:	0.3-2.2 A/phase
Encoder Feedback:	No
Step Resolution:	Full Half Microstepping Microstep Emulation
Idle Current Reduction:	50% or 90%
Setup Method:	DIP switches
Digital Inputs:	3
Digital Outputs:	1
Dimensions:	3.65 x 2.21 x 0.82 inches
Weight:	4.7 oz
Operating Temperature Range:	0 to 85 °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 Over-temp

Torque Curves

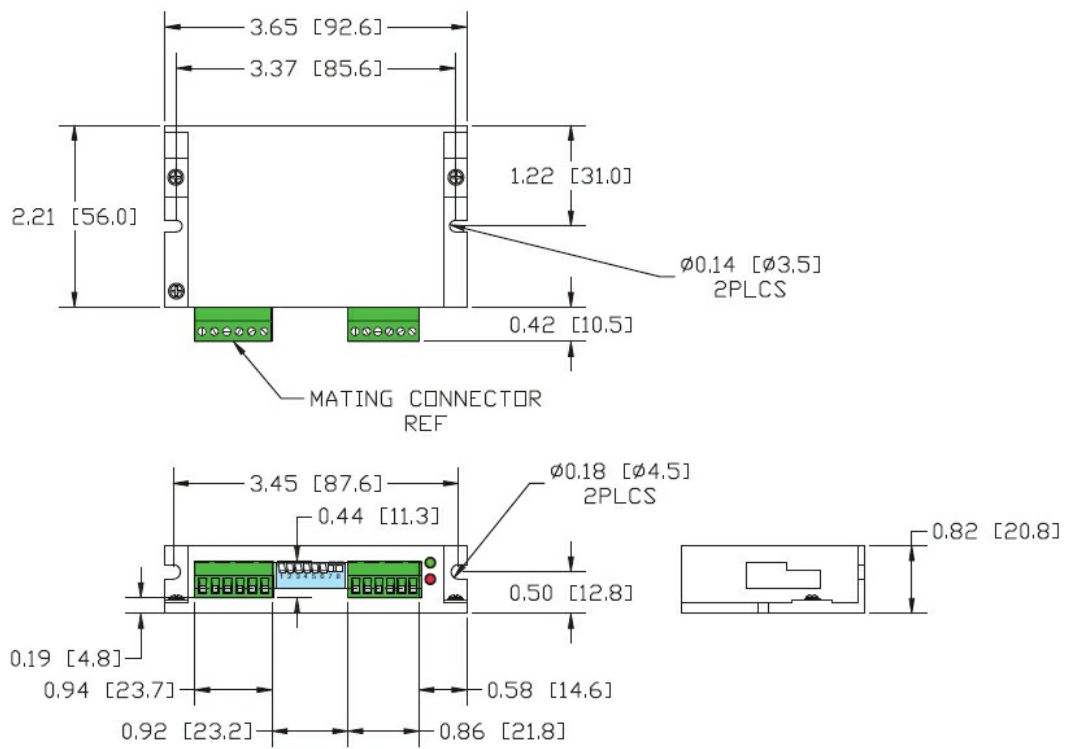




Downloads

Manuals:	STR2 Hardware Manual 920-0059B-opt-.pdf STR2_QuickSetupGuide_920-0113C.pdf
Product PDF - S3 Link:	http://s3.amazonaws.com/applied-motion-pdf/STR2.pdf
Datasheet:	STR_Datasheet_925-0002.pdf
2D Drawing:	STR2_2D.pdf STR2_heatsink-cover-model_3D.pdf
3D Drawing:	STR2_heatsink-cover-model3.igs
Speed-Torque Curves:	STR2_TCs.pdf
Agency Approvals:	STR_CE_DOC.PDF

2D Drawings



Products in the Series *STR Stepper Drives*

Model Number	Supply Voltage	Control Modes	Output Current, Continuous	Communication Ports	Encoder Feedback	1pc.
STR2	12-48 VDC	Step & Direction	0.3-2.2 A/Phase	NA	No	\$98.00
STR3	12-48 VDC	Step & Direction	0.3-3.0 A/Phase	NA	No	\$90.00
STR4	24-48 VDC	Step & Direction	1.12-4.5 A/Phase	NA	No	\$107.00
STR8	24-75 VDC	Step & Direction	2.35-8.0 A/Phase	NA	No	\$119.00
STRAC2	90-240 VAC	Step & Direction	0.5-2.5 A/Phase	NA	No	\$390.00
STRAC8	90-240 VAC	Step & Direction	0.5-8.0 A/Phase	NA	No	\$462.00