

ZX2 STEPPER MOTOR DRIVER

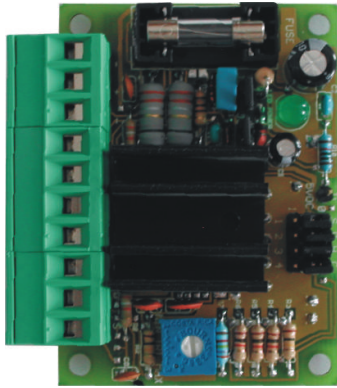
ATTENTION: Read this section before connecting or using

DESCRIPTION

The ZX2 STEPPER DRIVE is quite universal and well suited for driving NEMA 14 to 22 frame, 2 phase bipolar stepper motors. Bipolar phase current regulation is achieved through PWM chopping at 35 kHz. Phase currents are programmed using trimmer control TR1.

TERMINAL DESCRIPTIONS

- TERMINAL 1 - Power Ground connected also GND -5VDC if use external VDC
- TERMINAL 2 - +12VDC to +48VDC Supply Voltage
- TERMINAL 3 - GND Logic
- TERMINAL 4 - Motor Phase 1A } Fase A
- TERMINAL 5 - Motor Phase 2A } Fase A
- TERMINAL 6 - Motor Phase 1B } Fase B
- TERMINAL 7 - Motor Phase 2B } Fase B
- TERMINAL 8 - Disable Input, if connected gnd logic disable motor
- TERMINAL 9 - Dir Input TTL 5VDC pull-up
- TERMINAL 10 - Step Input TTL 5VDC pull-up. Direction and Step input are intended to be driven by TTL type signal capable of sinking 10mA. The minimum logic "0" time is 0.5uS and the minimum logic "1" time is 4 uS.
- TERMINAL 11 - J1 Input +5VDC



FEATURES

- 0.2A to 2.8A each phase current RMS
- 12VDC to 48VDC power supply
- Size 14 to 22 NEMA motors
- 0 to 70°C operating temperature
- 35 KHz oscillator PWM.
- Programmable phase current
- Performance select Full\Half Step
- Easy connection
- Anti-Resonance
- Low cost
- Led power indicator
- Humidity 0-95% non condensing

APPLICATIONS

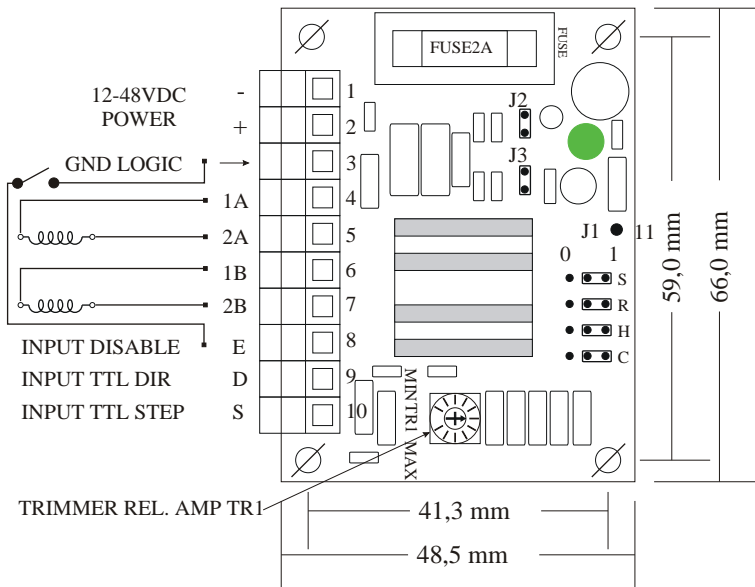
- Industrial automation
- Computer Numeric Control
- Robotics
- Medical products
- Packaging systems
- Labeling

JUMPER CONTROLLERS

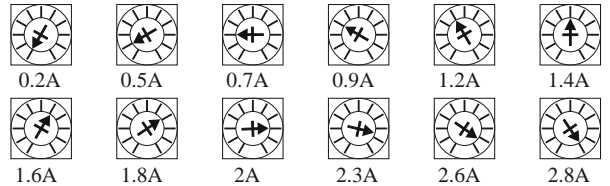
- Jumper S - 1 Internal 5VDC with supply voltage 34VDC. 0 connected by J1 +5VDC external input and can change power source 12/48VDC
- Jumper R - 1 Reset Home state, 0 Reset default
- Jumper H - 0 Half/Step, 1 Full/Step
- Jumper C - 1 Control Fast decay, 0 Control Slow decay select low noise
- Jumper J1 - Connected external +5VDC
- Jumper J2 - With jumper for internal +5VDC supply voltage 34VDC. No jumper for external +5VDC by J1 supply voltage 12/48VDC
- Jumper J3 - With jumper for internal+ 5VDC supply voltage 34VDC. No jumper for external +5VDC by J1 supply voltage 12/48VDC

NOTE: Use of a cooling fan is recommended for current over 1.8A phase.
Read for scheme of connection application exZX2.1, exZX2.2, ex ZX2.3 and exZX2.4

FEATURE LOCATION/TERMINAL



TRIMMER CONTROL OUTPUT CURRENT TR1



ATTENTION!

EXCEEDING MAXIMUM RATINGS WILL CAUSE FAILURE

RECOMMENDED CONDITIONS

PARAMETER	MIN	TYPICAL	MAX	UNITS
Power source	12	34	48	VDC
Phase current	0.2	-	2.8	A
Input step/dir "0"	-	-	0.6	V
Input step/dir "1"	2	-	5	V
Input current step/dir high	-	10	-	mA
Step pulse "0" time	0.5	-	-	uS
Step pulse "1" time	4	-	-	uS
Input + 5VDC	4.90	5	5.10	VDC
Input + 5VDC	-	50	-	mA