

## DESCRIPTION :

The NE1710 is a transistorized PWM servo controller complete with integral power supply. It is primarily intended for use with permanent magnet dc servo-motors rated at up to 100 watts. Included in the specification are a number of features that make the NE1710 particularly useful in a wide variety of high performance, low power servo applications.



## FEATURES :

- Integral power supply requiring only an 18-0-18V AC supply from the secondary of an isolating transformer.
- 4-Quadrant operation.
- Link selectable Velocity or Current (Torque) control modes.
- Link selectable Tach or Armature Voltage Feedback (in velocity control mode).
- Current fold-back limits the average current available to the motor thereby preventing motor damage during stalled conditions.
- Short-circuit protection.
- LED status indication.
- Easy to install using simple panel mounting arrangement.
- Easy to set up.

Technical Data			
Supply Voltage (1-phase AC)		18-0-18	V AC
Bus Voltage		24	V DC
Armature Output Current	Peak	10	A
	Cont.	5	A
Switching Frequency		18	KHz
Armature Inductance	Min.	0.4	mH
Operating Temperature	Min.	0	°C
	Max.	50	°C
Height		145	mm
Width		50	mm
Depth		220	mm
Protection Class		IP00	

## CONTROL SIGNALS :

Command I/P     $\pm 10V$  Differential input  
Tach I/P        Single-ended tach feedback input  
Enable I/P      Active-high, +10V to +28V input

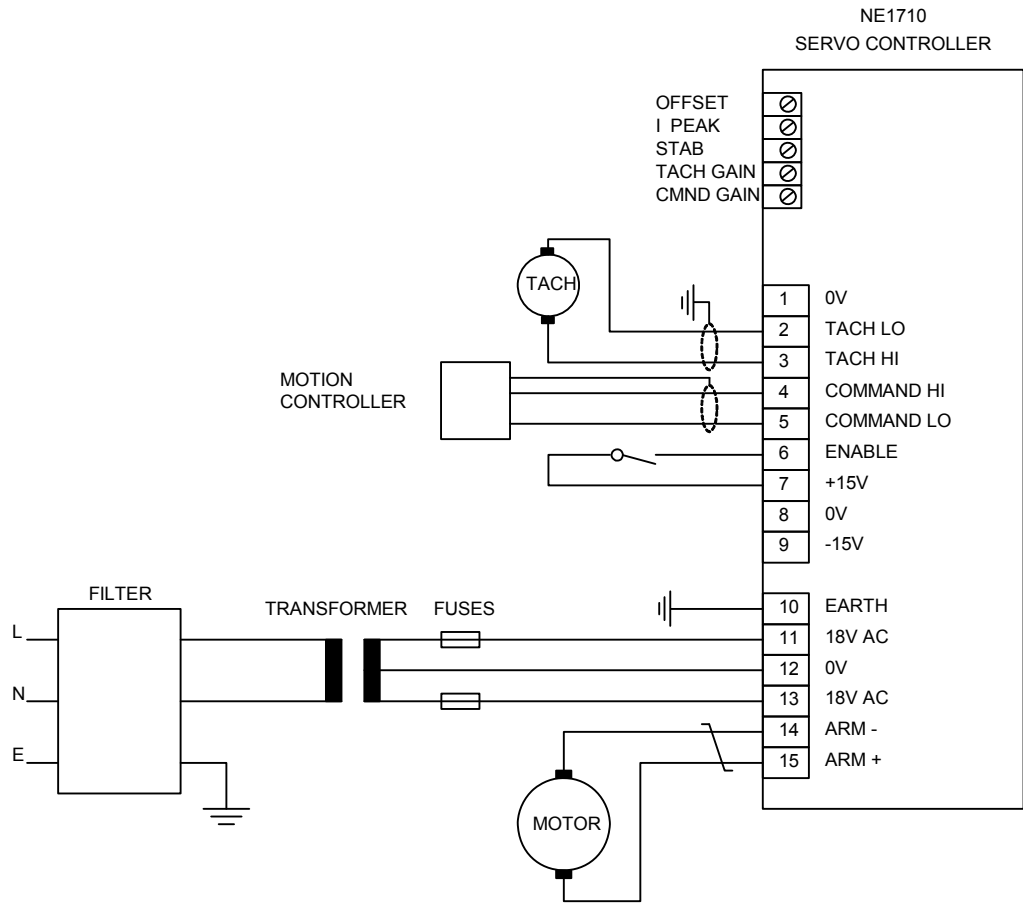
## USER ADJUSTMENTS :

All adjustments are done using the five multi-turn potentiometers located on the front edge of the board. They are:

- Offset
- Stability
- Peak current limit
- Tach gain
- Command gain



# ELECTRICAL CONNECTIONS



# OUTLINE DIMENSIONS

