




TA10-D Microprocessor Based AC Triac Drive

Model Number	Input Voltage (VAC)	Output Voltage (VAC)	Max Current (Amps)	HP Rating @ 115 VAC Output	HP Rating @ 230 VAC Output	Enclosure	Reversing	Isolation	UL 	CUL 	CE 
TA10-D	115/230	0-115 / 0-230	10	1	2	-	-	-	P	P	-

P: Pending

E

The TA10-D drive delivers the features and benefits of a microprocessor based drive, and the low cost of a triac control. This control is perfect to control speed of a single phase AC motor. Do not use a TA10-D on three phase motors.

The industrial strength TA10-D has a continuous current rating of 10 Amps at 115 VAC or 230 VAC. Other common triac drives are unable to maintain a steady voltage (speed) to the motor as the AC line voltage sags or swells. However, the internal closed loop circuit on the TA10-D drive compensates for changing AC line voltages while maintaining a steady voltage to the motor, thereby maintaining speed.

The Minarik TA10-D drive takes advantage of single phase motor characteristics to provide approximately constant pressure in filtered fan applications. As the filter becomes clogged, the motor will speed up to maintain airflow.

The TA10-D is also capable of accepting a feedback signal. This feature is most commonly found in exhaust systems where a thermistor is used for feedback to maintain a set temperature. The drive can also take a set point voltage signal to create PI closed loop system.

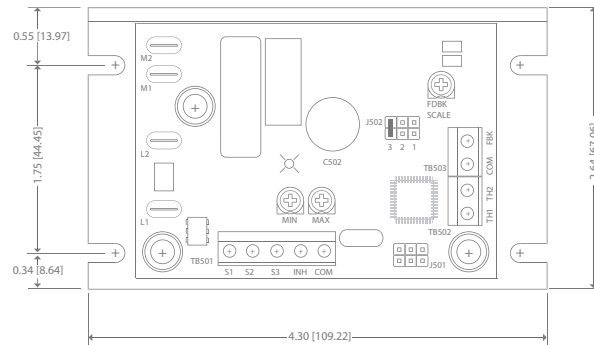
The TA10-D controls single phase permanent split capacitor (PSC), shaded pole, synchronous and universal motors.

See page 53 for an in-depth comparison of the different models of drives.



TA10-D

TA10-D DRIVE DIMENSIONS



Height: 1.41 [36]
 All dimensions in inches [millimeters]
 Wiring diagrams of chassis drives can be found on page 66.

FEATURES

- **Size:** Small footprint uses minimal panel space.
- **Microprocessor based:** Allows custom programming for OEMs.
- **Autoranging input:** No voltage switches to set.
- **AC line voltage compensation:** Holds a steady output voltage even if the input voltage fluctuates.
- **User adjustable calibration pots:** Minimum Speed, Maximum Speed, and optional feedback calibrating.
- **Variety of motors:** Single phase Permanent Split Capacitor (PSC), Shaded Pole, Synchronous and universal motors.
- **Do not use with:** Single Phase Capacitor Start, Split Phase or any other single phase motors that use a centrifugal switch in the start winding.
- **Feedback:** Optional PI closed loop control or thermistor feedback.
- **Low cost:** Triac drives are a cost effective alternative to a traditional VFD.