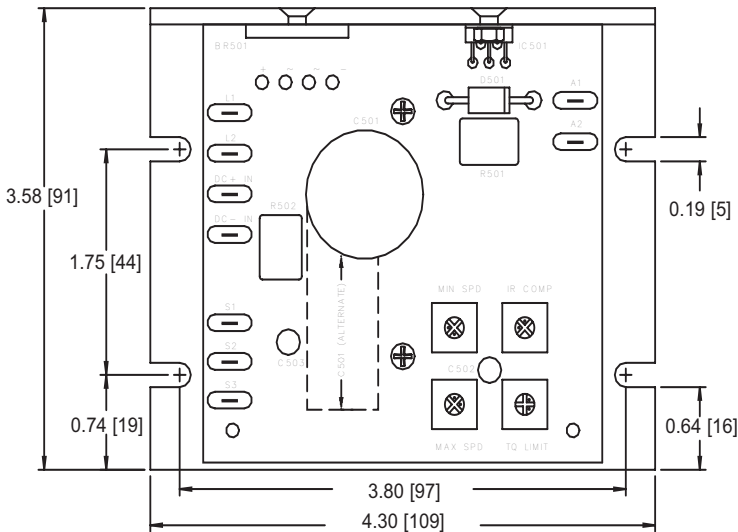


Drive	Input Voltage Range	Output Voltage Range (VDC)*	Max. Armature Current	HP Rating @ 24 VDC Output	Enclosure	Reversing *****	Isolation	Field Supply (VDC)	UL Listed cUL US LISTED	CSA CSA	CE TUV CE TUV
LV01-24AC-E10U	8 - 24 VAC	0 - 22 VDC	1	1/100 - 1/50	CHASSIS	-	-	-	YES	-	-
LV02-24AC	8 - 24 VAC	0 - 22 VDC	2	1/50 - 1/25	CHASSIS	-	-	-	YES	-	-
LV02-24DC	10 - 36 VDC	0 - 22 VDC	2	1/50 - 1/25	CHASSIS	-	-	-	YES	-	-

\* Maximum output voltage is 91% of equivalent DC input voltage. Ratings shown are for 24 VAC or 24 VDC.  
\*\*\*\*\* See regenerative drives in Section G for Low Voltage drives that can reverse on-the-fly.

### LV02-24AC & LV02-24DC DIMENSIONS



Height: 1.40 [36]  
All dimensions in inches [millimeters]

Dimensions of drives not shown above can be found on page 59.  
Wiring diagrams can be found on page 68.

### FEATURES

- **MM footprint:** A compact industry standard footprint.
- **Low voltage motor operation:** Designed for 12 and 24 VDC motors.
- **Speed range, regulation, & form factor:** 1% of base speed regulation with a 100:1 speed range and a 1.01 form factor over the entire range.
- **User adjustable calibration pots:** Minimum Speed, Maximum Speed, Current limit and IR Compensation.
- **Spade terminals:** Easy to use, lower cost and able to fit in a smaller package.
- **16kHz switching frequency:** A high switching frequency means a quiet motor!
- **Ideal for battery powered equipment:** Maintains both set and /or variable speed even as battery voltage declines. Extends total running time of equipment.
- **Additional features:** AC or DC input choices and near unity form factor throughout the speed range.
- **RoHS:** All LV series models are RoHS compliant.

F

Minarik Drives' LV Family of variable speed drives provide exceptional performance for your fractional horsepower, low voltage DC motor (12 and 24 VDC). These compact, low cost drives are designed to provide 1% speed regulation throughout a 100:1 speed range.

Packaged in a compact footprint, these user friendly drives are available with AC or DC input voltage. The auto ranging unipolar power supply allows standard LV drives to accept inputs from any AC voltage source ranging from 8 to 24VAC, or DC voltage between 10 to 36 VDC.

The PWM circuitry in the LV drives result in a 1.05 form factor over the entire speed range when an AC power input is provided. With a DC input these drives have an almost perfect DC form factor of 1.01.

The LV Family is ideal for cost sensitive variable speed applications requiring outstanding performance, and cooler, quieter motor operation from low voltage DC motors.

Review the HTL Series (pg. 22) for applications that require a 115 VAC or 230 VAC input to run a low voltage motor.

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

