




Drive	Input Voltage (VAC)	Output Voltage Range (VDC)	Max. Armature Current	HP Rating @ 90/130 VDC Output	HP Rating @ 180/240 VDC Output	Enclosure	Reversing *****	Isolation	Field Supply (VDC) *****	UL Rec. 	CSA 	CE TUV 
MMXL02-D240AC	115 / 230	0-130 / 0-240	2	1/20 - 1/6	1/10 - 1/3	CHASSIS	-	-	-	YES	YES	Pending
MMXL02-D240AC-PCM	115 / 230	0-130 / 0-240	2	1/20 - 1/6	1/10 - 1/3	CHASSIS	-	0-5 VDC	-	YES	YES	Pending
MMXL05-D240AC	115 / 230	0-130 / 0-240	5	1/4 - 1/2	1/2 - 1	CHASSIS	-	-	-	YES	YES	Pending
MMXL05-D240AC-PCM	115 / 230	0-130 / 0-240	5	1/4 - 1/2	1/2 - 1	CHASSIS	-	0-5 VDC	-	YES	YES	Pending
MMXL10-D240AC	115 / 230	0-130 / 0-240	10*	1/4 - 1	1/2 - 2	CHASSIS	-	-	-	YES	YES	Pending
MMXL10-D240AC-PCM	115 / 230	0-130 / 0-240	10*	1/4 - 1	1/2 - 2	CHASSIS	-	0-5 VDC	-	YES	YES	Pending

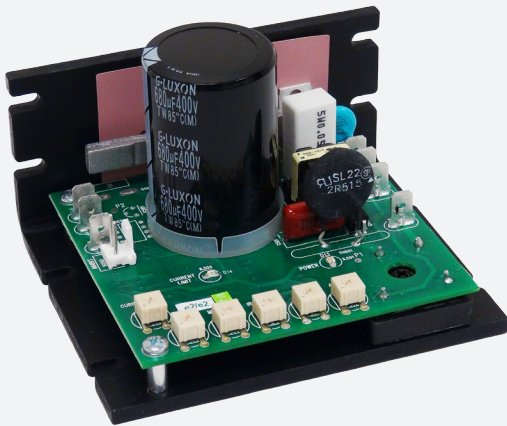
\* Heat sink number 223-0159 must be used when the output is above 5 amps.  
 \*\*\*\*\* A field supply is not available on the MMXL series. Minarik Drives recommends using the XL Series (pg 15).  
 \*\*\*\*\* See regenerative drives in Section D for PWM drives that can reverse on-the-fly.

Minarik Drives has always been a leader in providing low-cost PWM motor controls. With the MMXL Series, we have done it once again! We have taken a full-featured PWM drive and reduced it down to the standard MM footprint (4.30" x 3.64").

Not only did we keep all of the features of the larger XL Series, but we even added optical isolation to the speed circuit and the inhibit circuit in the "-PCM" model. This means that the speed can be controlled with any 0-5 VDC signal and many drives can be inhibited with a single contact closure. The auto ranging power supply allows the user to apply 115 or 230 VAC without adjusting any switches.

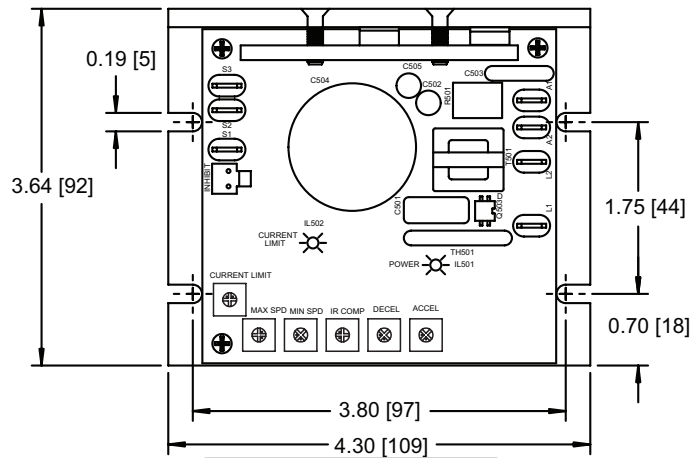
For cooler running motors and longer lasting brushes, Minarik Drives recommends upgrading SCR drives to PWM drives like the MMXL Series.

See page 51 for an in-depth comparison of the different 1Q PWM drives.



MMXL02-D240AC & -PCM  
 MMXL05-D240AC & -PCM  
 MMXL10-D240AC & -PCM

### MMXL SERIES DIMENSIONS



HEIGHT	
MMXL02	2.50 [62]
MMXL05	3.20 [81]
MMXL10	3.90 [99]

All dimensions in inches [millimeters]  
 Wiring diagrams can be found on page 65.

### FEATURES

- **MM footprint:** A compact industry standard footprint.
- **Speed range, regulation, & form factor:** 1% of base speed regulation with a 100:1 speed range and a 1.05 form factor over the entire range.
- **User adjustable calibration pots:** Minimum Speed, Maximum Speed, Current Limit, IR Compensation, Acceleration and Deceleration.
- **Diagnostic LEDs:** LEDs for power and current limit status.
- **Stopping mode:** Inhibit (N.O.) for coasting to a stop.
- **Spade terminals:** Easy to use, lower cost, and able to fit in a smaller package.
- **Auto-ranging power supply:** Accepts AC or DC input in the 115-230V range.
- **Options:** "-PCM" option adds isolation for the speed reference input and the inhibit pins.
- **Accessories:** Heatsink 223-0159. 201-0024 inhibit plug with 18" leads, DLC600 digital closed loop controller.
- **RoHS:** All MMXL series models are RoHS compliant.