



Type UPM

Unfiltered DC Motor Speed Controls

The UPM unfiltered control draws lower AC line current than comparable SCR filtered controls. DIP switches allow the control to be easily calibrated for different size motors. Controls are available with either 1/4" quick connect tabs or a plug-in terminal block.

- **Input Voltage:** Chassis model operates from either 115 VAC or 230 VAC line, selectable with plug-in jumper; the enclosed model features a factory-installed 115 Volt AC line
- **Output Voltage:** 0-90 VDC; 0-180 VDC
- **Form Factor:** 1.6
- **Switchable Output:** for 0-90 VDC or 0-180 VDC (chassis models only)
- **Back EMF Feedback:** maintains better than 2% speed regulation
- **Two Diagnostic LEDs:** indicate when power is on and when current output is at limit set by TORQ pot (chassis models only)
- **User-Adjustable Pots:** for torque limit, minimum speed limit, maximum speed limit, acceleration time, deceleration time and speed regulation
- **Inhibit Function:** connections for optional user-supplied inhibit switch available
- **Speed Adjustment:** 10 kΩ single turn speed pot (supplied with chassis type controls); speed can also be adjusted via isolated 0-5 VDC remote signal (optional isolation card required)
- **Optional Model 3984 Isolation Card:** provides 4-20ma interface, a grounded circuit reference, and signal for multiple controls; sold separately



Chassis Type

(1/4" quick connect tabs shown)



NEMA-1 Enclosure



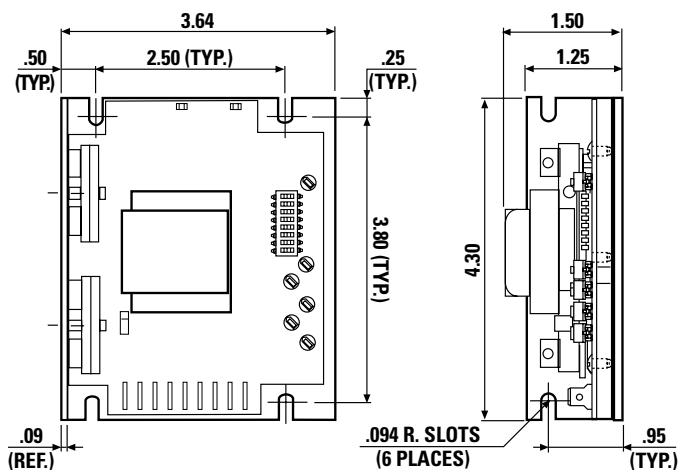
Typical Applications

Ideal for use in single direction applications such as: industrial conveyors, packaging machines, screen printing equipment, conveyor ovens (food processing applications), medical devices, lab instrumentation and labeling equipment.

HP Rating	Continuous Output Current (Amps)	Peak Output Current (Amps)	Product Type	Model Number	
				1/4" QC Connect	Terminal Block Connect
1/3@180 V	2.1	4.2	UPM-3318C (Chassis)	0865	0866
1/5@90 V	2.1	4.2	UPM-3318C (Chassis)	0865	0866
1/5	2.1	4.2	UPM-3318E1 (Enclosed)	—	0867



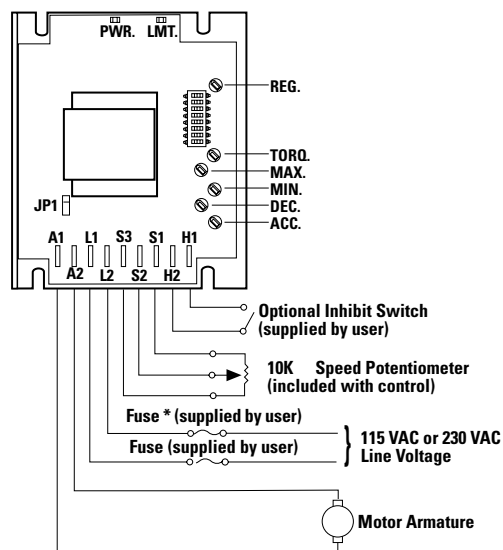
UPM Dimensions (Chassis)



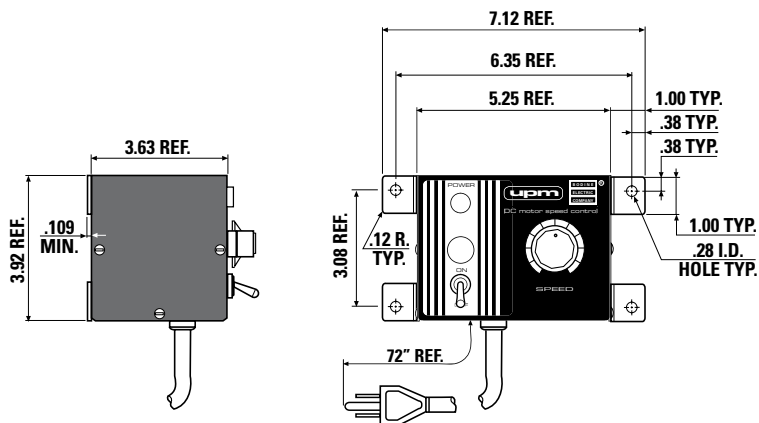
All wires external to control must be supplied by user

* This fuse should only be used when L2 is not neutral (such as for 230 VAC operation in USA)

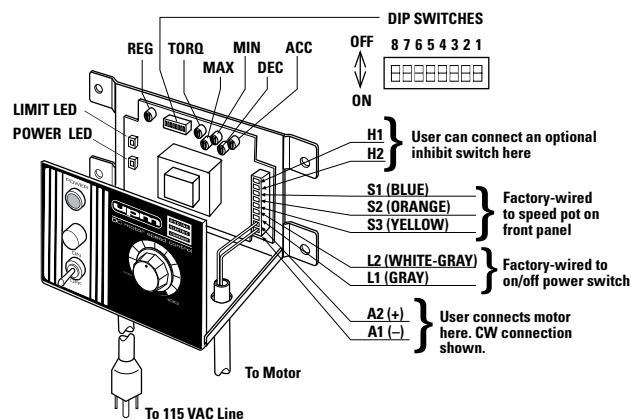
UPM Connection Diagram (Chassis)



Dimensions (NEMA-1)



Connections (NEMA-1)



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