

# Instructions for Installation and Operation

Type WPM Filtered PWM Speed Controls for Permanent Magnet DC Brush Motors  
• Models 0790 & 0791, NEMA 1 enclosure

## SPECIFICATIONS

Input Voltage	115 VAC ±10%, 50/60 Hz, single phase
Maximum Input Current, Continuous	
Model 0790	3.5 Amps RMS
Model 0791	5.7 Amps RMS
Output Voltage	0-120 VDC
Ambient Temperature	0-60° C
Maximum Output Current, Continuous	
Model 0790	2.80 Amps DC*
Model 0791	3.30 Amps DC
Maximum Output Current, Peak	
Model 0790	2.30 Amps DC
Model 0791	3.00 Amps DC
Speed Regulation	1% of rated speed obtainable with most motors
Acceleration/Deceleration Time	Adjustable, 0.1-15 seconds
Means for Speed Adjustment	10K 5 turn potentiometer
Means for Drive Inhibit	switch closure
Diagnostics	green power LED, red current limit LED

\* Theoretical rating only. Actual max. continuous output current is 1.25 Amps.

## INSTALLATION

**WARNING:** This control should only be installed by a qualified person familiar with its operation and associated hazards. The National Electrical Code (NEC), local electrical and safety codes, and when applicable, the Occupational Safety and Health Act (OSHA) should be observed to reduce hazards to personnel and property.

### Step 1: Mounting the Control

The controller may be mounted using any two of all four mounting holes. The mounting holes have clearance for 1/8"-20 or M6 screws.

### Step 2: Preliminary Setup

**HORSEPOWER & ACCELERATION SELECTION SWITCHES:** Control models 0790 and 0791 are packaged with the enclosure cover unattached. Remove the cover to set the horsepower and acceleration selector switches. Figure 4 shows the location of a bank of 8 dip switches. Set switches 1 through 8 to match the type, speed, and current ratings on the Bodine motor nameplate per Figure 2 (consult Bodine for settings for non-Bodine motors). Set switches 1 and 2 to select the acceleration/deceleration time range per Figure 3.

### Step 3: Electrical Connections

The enclosure cover must be removed as shown in Figure 4 to make the electrical connections.

**WARNING:** All parts of the circuit operate at voltages capable of causing serious injury or death.

**WARNING:** The AC power line to the control should be the last connection made.

**CAUTION:** The control board signal common is not at ground potential. Any external signal or equipment connected to the control must be electrically isolated from ground.

**INHIBIT SWITCH (OPTIONAL):** A mechanical switch or relay with contacts rated for low voltage may be connected to terminals "IS" and "IS". With the switch open, the motor will run. With the switch closed, the motor will coast to a stop.

**WARNING:** The inhibit switch should not be used to disable motor or control while running these or driven equipment. Disconnect the AC power instead.

FIGURE 1—Control mounting dimensions

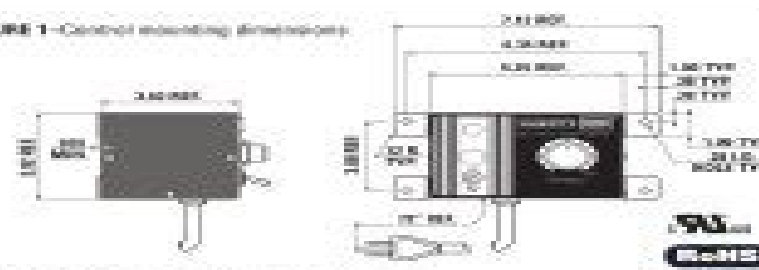


FIGURE 2—Setup of Dip Switches 1 through 8

Control	Motor Ratings				Control Setup		
	Motor Type	Armature (VPM) <sup>1</sup> / 1000 <sup>2</sup>	Motor Rated Amps <sup>3</sup>	Motor HP <sup>4</sup>	Dip Switches (a)	Peak Output Range <sup>5</sup>	Continuous Input Current <sup>6</sup>
Model 0790	2440	2500	9.20	1/40	Consult Factory	Factory	
	2442	2500	9.3	1/20	1,3	0.8	0.8
	2444	2500	9.40	1/20	1,2,3	1.0	1.1
	2444	2500	9.6   10	1/20   1/10	3,5,6	1.2	1.4
	2442	2500	26   13.8	1/10   1/8	3,4,5,6	2.1	1.8
	2442	2500	9.74	1/10	3,5,6	1.2	1.4
	2442	2500	9.70	1/10	3,5,6	1.2	1.3
	2445	2500	9.90	1/8	2,4,5,6	2.1	1.9
	4242	2500	11	1/8	2,4,5,6	2.8	2.0
	4244	2500	11.3	1/8	1,2,4,5,6	2.2	2.5
	2444	11500	3.3	1/2	3 <sup>7</sup>	1.2	1.3
	2443	2500	9.74	1/10	1	1	1.4
Model 0791	2042	2500	26   13.8	1/10   1/8	3	1.2	1.8
	2442	2500	9.70	1/10	1	1	1.4
	2040	2500	1.40   0.7   0.8   1.2	1/8   1/4	2,3	2.5	2.0
	2045	2500	1.4	1/8	3	1.2	1.9
	2040	2500	9.90	1/8	3	1.2	1.9
	2242	2500	1.4   2.4	1/8   1/2	3,5	6.1	2.8   4.8
	4242	2500	1	1/8	3,5	1.8	2
	4244	2500	1.3	1/8	3,5	3	2.5
	4240	2500	1.3   1.8	1/8   1/4	3	1.2	1.9
	4245	2500	1.8	1/4	3,5	6.1	2.8
	4245	2500	2.2	1/2	3,5	6.1	4.8
	4243	2500	2.3	1/2	2,3,5	6.8	4.0
	4243	2500	2.4	1/2	2,3,5	5.8	5.1
	4243	2500	2.2	1/2	2,3,5	5.8	5.1

FIGURE 3—Setup of dip switches 7 and 8

Switches		Acceleration/Deceleration Time Range (seconds) <sup>7</sup>	
7	8	ACC pot fully CCW (factory setting)	ACC pot fully CW
Off	On	0	0
On	On	3	2.5
On	Off	3.8	12.8
On	On	4.5	15.8

- For armature speed of a geared motor, multiply the output speed of the driveshaft by the gear ratio.
- If the user desires to install their own armature based on the control output to protect the motor from a defective unit, base the ratings on the motor rating in this column.
- Peak current available with 100% pot is fully CW position (factory setting). This current permits the continuous rating of the motor and is for intermittent overload conditions only.
- See this column for using a 10K pot on the control input.
- The 10K potentiometer must be turned fully CCW (left) for high speed type 2440/2040 motor.
- Time for voltage across A1 and A2 to ramp up to 100 V when speed set is turned from 0 to 100, or to ramp down to 0 V when it is turned from 100 to 0. The time for a motor to accelerate from 0 to 2500 rpm or decelerate from 2500 to 0 rpm is dependent on motor size and loading conditions.

# Bodine 0790 Control Manual

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**Bodine 0790 Control Manual:**

**Steel** ,1960      **Commerce Business Daily** ,1998-07      **Radio Control Manual, Etc. No. [1]-3** RADIO CONTROL  
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