



# YOUNG REGULATOR

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## SUBMITTAL DATA

Submittal 2085 rev B • rev 3/03  
**AUTOMATIC CHANGEOVER  
 RECTANGULAR VAV DAMPER**

## Model 2085 THERMOSTATIC CONTROL

### Application and Design

The 2085 rectangular variable air volume dampers are used with a single pole, double throw, center off zone thermostat (such as the Young T-312 or T-641, ordered separately, in heat / cool systems to vary the volume of air into a zone to maintain room temperature. They are used independent of a zone control panel to solve isolated over heating and / or over cooling problems. The automatic changeover relay consists of a duct sensor and relay board. Duct sensor is factory installed on damper to be positioned upstream to sense supply air temperature. Supply duct air temperatures greater than 70 degrees will direct the relay board to put the damper in the heating mode, so that damper will begin to close when room temperature is greater than the wall thermostat set point. Supply duct air temperatures less than 70 degrees will direct the relay board to put the damper in the cooling mode, so that damper will begin to open when room temperature is greater than the wall thermostat set point.

### Ratings

**Pressure:** 1" W.C.  
**Velocity:** 1,000 CFM  
**Temperature:** 20°F to 125°F

### Standard Construction

**Frame:** .050 extruded aluminum channel  
**Blade:** .050 extruded aluminum channel  
**Linkage:** 20 gauge stainless steel  
**Blade Axles:** Teflon  
**Drive Shaft:** 1/2" steel  
**Mounting Plate:** 18 gauge galvanized steel  
**Actuator** **Honeywell ML6161**

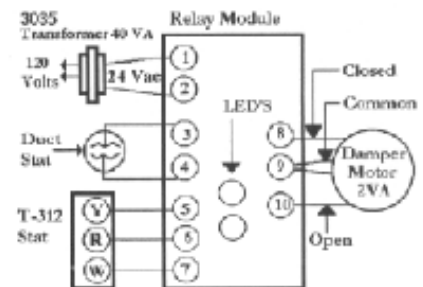
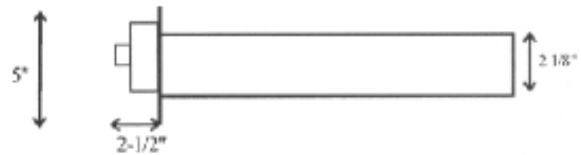
24V, 35 in. lb Direct Coupled Actuator. UL and CSA Listed 2.0 Watts, .085 Amps, 2.04 VA, 7 min. timing. Low draw permits the control of up to 6 dampers by a single thermostat.

### Thermostat

(Available Separately) Single pole, double throw center off for floating control as the Young T-312 and T-641

### Size Information

Damper is made 1/8" undersized  
**Minimum Size:** 4" x 3"  
**Maximum Size:** 24" x 24"  
**Frame:** 2 1/8" wide



### Options (at additional costs)

- 1 Plenum rated motor enclosure
- 20 / 24V Transformers, 40 Va.
- Consider bypass (Young 4092 and 4095) if more than 30% of system air is zoned

QUANTITY	SIZE		
	W	H	
PROJECT			LOCATION
CONTRACTOR			DESIGN SPECIFIER