



**50M56-743**

**50M56-743 NITRIDE MULTI SPEED INTEGRATED  
FURNACE CONTROL**

Controls Gas Valve, Ignitor, Blower, Inducer and Air Cleaner.  
Replaces OEM Goodman and White-Rodgers Models.

**FEATURES**

- System diagnostic LED with fault recall.
- Multi speed circulator.
- One or two stage gas valve.

**SPECIFICATIONS**

Operating Temperature . . . . . -40 to 176°F  
Humidity Range . . . . . 5% to 93% RH (non-condensing)  
Mounting . . . . . Snap in standoffs

Electrical Ratings @ 77°F (25°C)  
Input Voltage . . . . . 25 VAC 50 / 60 Hz  
Maximum Input Current @ 30 VAC . . . . . 0.45 amp

Relay Load Ratings  
Valve Relay . . . . . 1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf  
Ignitor Relay . . . . . 6.0 amp @ 120 VAC 50 / 60 Hz  
Inducer Relay . . . . . 2.2 FLA-3.5 LRA @ 120 VAC  
Circulator Relay . . . . . 14.5 FLA-25.0 LRA @ 120 VAC

Flame Current Requirements  
Minimum current to insure flame detection . . . . . 1 uA DC  
Maximum current for non-detection . . . . . 0.10 uA DC  
Maximum allowable leakage resistance . . . . . 100 M ohms

Timing Spec (@ 60 Hz) . . . . . maximum  
Flame establishing time . . . . . 0.8 sec  
Flame failure response time . . . . . 2.0 seconds

**NOTE:** At 50 Hz, all timing specifications should be increased by 20%.

Model Number	Prepurge Time	Heat Delay On	Heat Delay Off Sec.	Cool Delay On Sec.	Cool Delay Off Sec.	Post Purge
50M56-743	30 seconds	30	100 / 150	6	45	25 sec

**CROSS REFERENCE**

**50M56-743 Replaces:**

Goodman		White-Rodgers
0130F00006	PCBBF122	50M56-289
0130F00006S	PCBBF122S	
PCB00109	PCBBF132	
PCBBF109	PCBBF132S	

**NOTE:** Can also use Universal Kit 50M56U-843