



50T35-743

**50T35-743 SILICON CARBIDE INTEGRATED
FURNACE CONTROL**

Controls Gas Valve, Ignitor, Two Speed Blower Motor, Inducer, Humidifier (Both 120v & 24v Input), and Air Cleaner. Replaces OEM Goodman, UTEC and TI Models

FEATURES

- Includes flash code diagnostics.
- Twinning.
- Includes mounting hole template.
- Fused to protect low voltage system transformers.
- Adjustable blower relay.
- 90+ furnace option.

SPECIFICATIONS

Operating Temperature -40 to 176°F
 Humidity Range 95% RH (non-condensing)
 Mounting Plastic standoffs

Electrical Ratings @ 77°F (25°C)

Input Voltage 20-30 VAC RMS 50/60 Hz
 Maximum Input Current @ 30 VAC 0.35 amp

Relay Load Ratings

Valve Relay 1.5 amp @ 30 VAC 50/60 Hz 0.6 pf
 Ignitor Relay 5.0 amp @ 120 VAC 50/60 Hz
 Inducer Relay 4.0 FLA-8.0 LRA @ 120 VAC
 Circulator Relay 14.5 FLA-25.0 LRA @ 120 VAC

Flame Current Requirements

Minimum current to insure flame detection 75 uA DC
 Maximum current for non-detection 0.10 uA DC
 Maximum allowable leakage resistance 100 M ohms

Timing Spec @ 60 Hz

Flame establishing time n/a
 Flame failure response time 2.0 seconds maximum

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
50T35-743	15 seconds	30	90/120/150	5	60	25 sec (29 w/90+)

CROSS REFERENCE

50T35-743 Replaces:

Goodman	B1809913
UTEC	1012-933D
Texas Instruments	41F-5
White-Rodgers	50T35-730