



**50A55-3797**

**50A55-3797 TRANE SINGLE STAGE 120V IGNITION INTEGRATED HSI FURNACE CONTROL**

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (120V), and Air Cleaner. Replaces OEM Trane and White-Rodgers Models

**FEATURES**

- Includes flash code diagnostics.
- Fused to protect low voltage system transformers.

**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)**

Flame establishing time . . . . . maximum  
 Flame failure response 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	Pre-Purge Time	Heat Delay-To-Fan-On	Heat Delay-To-Fan-Off	Cool Delay-To-Fan-On	Cool Delay-To-Fan-Off	Post Purge
<b>NEW</b> 50A55-3797	0 sec	45	60 / 100 / 140 / 180	2	0 / 180	5 sec

**CROSS REFERENCE**

**50A55-3797 Replaces:**

Trane	White-Rodgers
CNT02789	50A55-474
CNT02891	50A55-476
CNT03799	50A55-571
D341122P01	
D341235P01	
D341235P03	

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

HEATING