



50M56U-801

50M56U-801 LENNOX / ALLIED AIR
SINGLE STAGE 120V IGNITION
INTEGRATED HSI FURNACE CONTROL

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (120V), and Air Cleaner.

FEATURES

- System diagnostics LED with fault recall.
- Fused to protect low voltage system transformers.
- 3 fan speeds.
- Adapter harness for application flexibility.

SPECIFICATIONS

Operating Temperature	-40 to 175°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 @ 25 VAC	0.45 amp
Relay Load Ratings	
Valve Relay	1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf
Ignitor Relay	1.2 amp @ 120 VAC 50 / 60 Hz
Inducer Relay	2.8 amp @ 120 VAC
Circulator Relay	10.0 FLA-25.0 LRA @ 120 VAC
Humidifier Load	1.0 amp @ 24 VAC or 120 VAC
Electronic Air Cleaner	1.0 amp @ 120 VAC
Flame Current Requirements	
Minimum current to insure flame detection	0.25 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%.

*Measured with a DC microammeter in the flame probe lead.

NEW

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
50M56U-801	15 sec	30* / 45	60 / 90 / 120* / 180	2	2 / 60*	5 sec

*Default setting

CROSS REFERENCE

Lennox, Armstrong, AirEase, Concord, Ducane, Aire-Flo		
100973-01*	103098-01	78M4701*
100973-02*	1195-83-100A	80M2701
1012-83-9673A	1195-100	81W03*
1012-967	12L4201	81W11
1012-968	17W70*	94W83
1012-969*	50A55-120	R47582-001
1012-969A*	56L8501	
1012-977A	56W19	
103085-01	74W03	
103085-02	75M1701*	
103085-03	78M1701*	

*Requires 120V Ignitor (21D64-2)