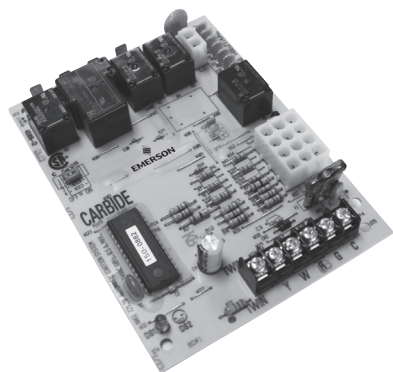


HEATING



50A55-743

50A55-743 GOODMAN SILICON CARBIDE SINGLE STAGE INTEGRATED HSI FURNACE CONTROL

Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (Both 120V & 24V Input), and Air Cleaner. Replaces OEM Goodman and White-Rodgers Models

FEATURES

- Includes flash code diagnostics.
- Twinning connection.
- Fused to protect low voltage system transformer

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
 2.0 seconds

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

Model Number	Pre-Purge Time	Heat Delay On	Heat Delay Off Sec.	Cool Delay On Sec.	Cool Delay Off Sec.	Post Purge
50A55-743	15 seconds	30	90 / 120 / 150 / 180	5	45	15 sec

CROSS REFERENCE

50A55-743 Replaces:

0130F00005	PCBBF110
0130F00005S	PCBBF110S
50A55-289	PCBBF112
50T55-289	PCBBF112S
B1809926	PCBBF123
B1809926S	PCBBF123S

NOTE: Can also use Universal Kit 50M56U-843