

Carrier Single Stage HSI Integrated Furnace Control

50M56D-751



Upgrades older “Edge Card” systems
to modern ignition electronics



Easy Installation & Service

Direct OEM mounting with pre-wired
ready-to-install control

Dipswitch selections and fault codes silk
screened on control

Flame current test pins



Flexible Design

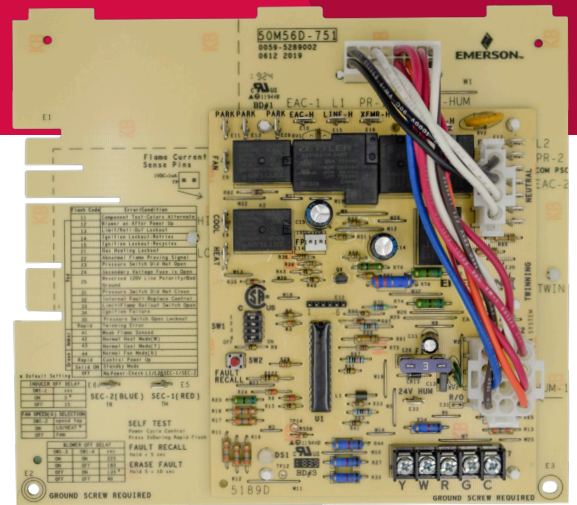
Extra “fan only” blower speed tap
24V and 120V humidifier options



Advanced Diagnostics

Fault recall and clearing button

Tri-Color LED displays status and fault codes



50M56D-751

SPECIFICATIONS:

Electrical Ratings

Input Low Voltage: 24 VAC 60 Hz

Input Line Voltage: 120 VAC 60 Hz

Max Input Current: 0.45 A @ 24 VAC relay contact ratings

Flame Current Requirements

Minimum current to ensure flame detection: 0.25 μ A DC

Maximum current for non-detection: 0.1 μ A DC

Maximum allowable leakage resistance: 100 M ohms

Operating Temperature Range

-40° to 176°F (-40° to 80°C)

Humidity Range

5 - 95% relative humidity (non-condensing)

Gases Approved

Natural, Manufactured, Mixed, Liquefied Petroleum, and LP Gas-Air Mixtures

Dimensions

7.625" L x 8.5" W x 3.50"H

Agency Approvals

UL USA/Canada

1 Year Limited Warranty

TIMING SPECIFICATIONS:

Timings are shown in seconds

Pre-Purge	Ignitor warm-up (adaptive, starts at 17s)	Ignitor Activation Period	Blower Heat ON Delay	Post-Purge	Blower Heat Off Delay
15	5-21	3	*45, 66	*5/15	90, *135, 180, 225

* Denotes factory default

CROSS REFERENCE:

Carrier

784-83-10H

784-9-I

CESO110020

CESO110048

CESO110057-00

CESO110057-01

CESO110057-02

HH84AA016

PCB1201-2A

ICM

ICM281

L43-836

White-Rodgers

L50-820

50M56U-751 INTEGRATED FURNACE CONTROL

For newer single stage PSC applications use the 50M56U-751 Integrated Furnace Control which replaces 33 Carrier/ICP part numbers



THE WHITE-RODGERS MOBILE APP:

Answers at your fingertips, with your smartphone or tablet.

- ✓ Latest cross reference
- ✓ Installation instructions
- ✓ Spec sheets
- ✓ Product selection



R-5242 (11/20)

©2020 Emerson Electric Co. | White-Rodgers and Emerson are trademarks of Emerson Electric Co. All rights reserved | Customer Service or Technical Help: 888-725-9799 | Emerson.com/White-Rodgers

EMERSON. CONSIDER IT SOLVED.™