

November, 2005

WIRING DIAGRAMS Modine indoor duct furnace Model DFG

Diagram Selection

Diagrams are provided for both single and three-phase circuits, and are readily identified in the selection table on page 3. The selection table enables easy selection of the correct wiring diagram after the electrical components of the unit heater have been determined.

Diagram Interchangeability

The following gas-fired unit heater wiring diagrams are for either single-phase power, or three-phase electrical service.

The single-phase diagrams may be utilized for 120V, 208V or $230V/60Hz/1\phi$ power.

The three-phase diagrams may be utilized for 208V, 230V, 460V and $575V/60Hz/3\phi$ power.

NOTE: As indicated in every diagram, all wiring must comply with the National Electrical Code and all local codes. All components must agree with their respective power source.

A CAUTION

Turn off all power and gas to unit before wiring. Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations, contact factory.

Abbreviations and Symbols

To facilitate interpretation and enable simplification the abbreviations and symbols have been selected as recommended by ANSI (American National Standards Institute) and NEMA (National Electrical Manufacturers Association) standards.

XFMR or TR Transformer Volts Cycle or Hertz Hz Phase ĽС Limit Control THERM or TH Thermostat MV Main Valve PV Pilot Valve SO Shut Off

RC Relay Contact or Coil

G Ground H Hot SW Switch

EPS Electric Pilot Switch

HI High
Lo Low
C Common
"J" Box Junction Box

H1, H2, etc. Transformer Primary Terminals

SUM Summer Contact (Summer/Winter Switch)
WIN Winter Contact (Summer/Winter Switch)

S-W Summer/Winter Switch O.L.C. Overload Contact

C.S. Power Venter Centrifugal Switch

FTc Fan Timer Contact

SPDT Single-Pole Double-Throw Switch

VA Volt-Ampere W Watts

Wire Color Coding

 BK
 Black

 BL
 Blue

 R
 Red

 W
 White

 Y
 Yellow

X1,X2, etc. Transformer Secondary Terminals

L1, L2, etc. Electric Load Terminals
T1, T2, etc. Starter or Motor Terminals

5-451 WIRING DIAGRAM — MODEL DFG

Wiring Diagram Selection

Field and Submittal Wiring Diagram Selection

Select the correct wiring diagram as follows:

- 1. Determine the 15 digit duct furnace model number.
- 2. Determine digits 13, 14, 11 and 12. See tables 2.1-2.4 for descriptions.
- 3. See table 3.1 to determine the diagram page location.

See page 3 for examples.

Model #	DFG	200	Α	F	R	N	N	1	4	Α	1
Digit #	1,2,3	4,5,6	7	8	9	10	11	12	13	14	15

Table 2.1

Digit 13 — Additional Safety Switches (SS)

_	• • • • • • • • • • • • • • • • • • • •
4	No Additional Safety Switches (Standard Control Box)
0	No Additional Safety Switches (Premium Control Box)
1	Low Gas Pressure Switch (Premium Control Box)
2	High Gas Pressure Switch (Premium Control Box)
3	High and Low Gas Pressure Switch (Premium Control Box)

Table 2.3

Digit 14 — Supply Voltage (SV)

115V/60Hz/1φ
208V/60Hz/1φ
230V/60Hz/1¢
208V/60Hz/3φ
230V/60Hz/3φ
460V/60Hz/3φ
575V/60Hz/3φ

Table 2.3

Digit 11 — Gas Type (GT)

N	Natural Gas with Continuous Retry Ignition Controller
Р	Propane Gas with Continuous Retry Ignition Controller
s	Natural Gas with Standing Pilot
Т	Propane Gas with Standing Pilot

Table 2.4

Digit 12 — Gas Type (GV)

1	Single Stage
2	Two Stage
3	Mechanical Modulation
4	Electronic Modulation
5	Electronic Modulation - Master
6	Electronic Modulation - Slave
7	Electronic Modulation – 0-10Vdc External Input
8	Electronic Modulation – 4-20mA External Input

Wiring Diagram Selection

Example Selection

Example #1:

Model number: DFG400SFRNT14B1

Example #2:

Model number: DFG100AMRNN43F1

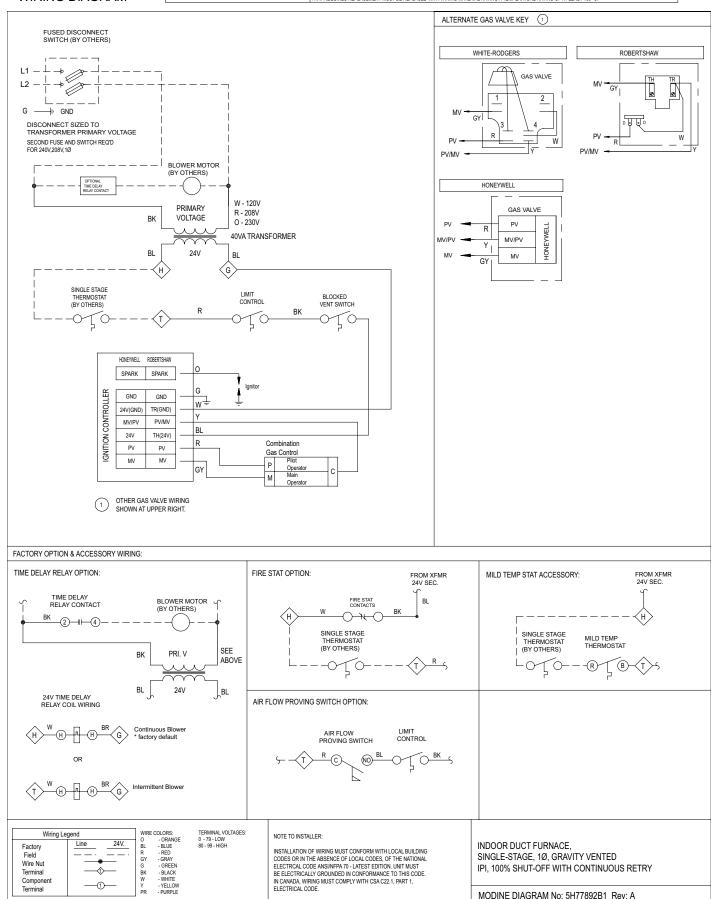
Table 3.1
Wiring Diagram Page Location Index

Digit #13	Digit #14	Digit #11	Digit #12	Page Location
			1	4
	A, B, C	N, P	2	6
			3	8
			4	10
			5,6	12
			7,8	14
		S, T	1	16
4			2	18
4		N, P	1	5
			2	7
			3	9
	D, E, F, G		4	11
			5,6	13
			7,8	15
		S, T	1	17
			2	19
		N, P	1	20
	A, B, C		2	22
			3	24
			4	26
			5	28
			6	30
			7,8	32
		S, T	1	34
0, 1, 2, 3,		J, 1	2	36
υ, Ι, Ζ, ૩,	D, E, F, G	N, P	1	21
			2	23
			3	25
			4	27
			5	29
			6	31
			7,8	33
		S, T	1	35
			2	37

MODINE MFG. CO. WIRING DIAGRAM



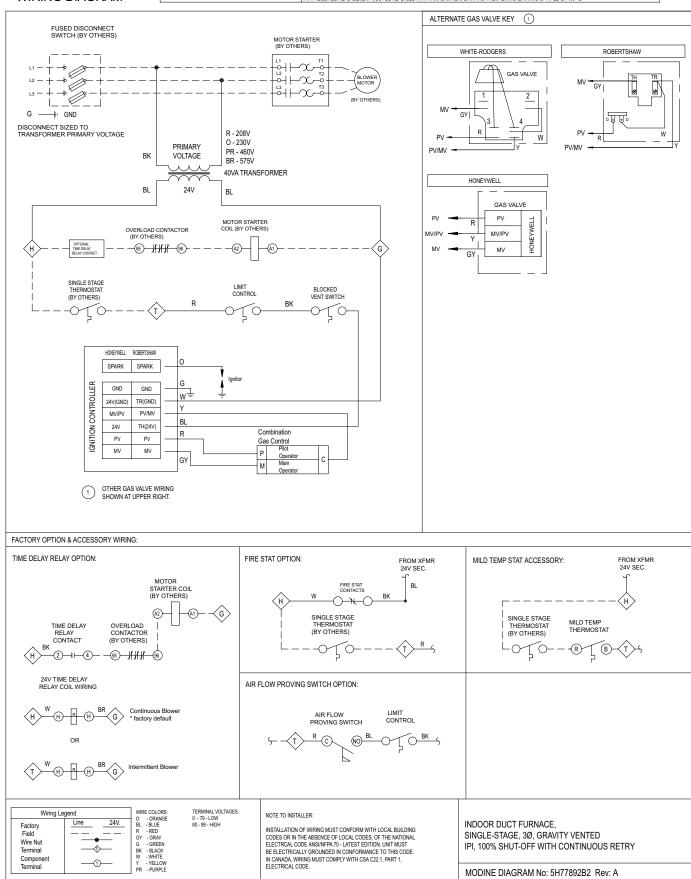
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MODINE MFG. CO. WIRING DIAGRAM



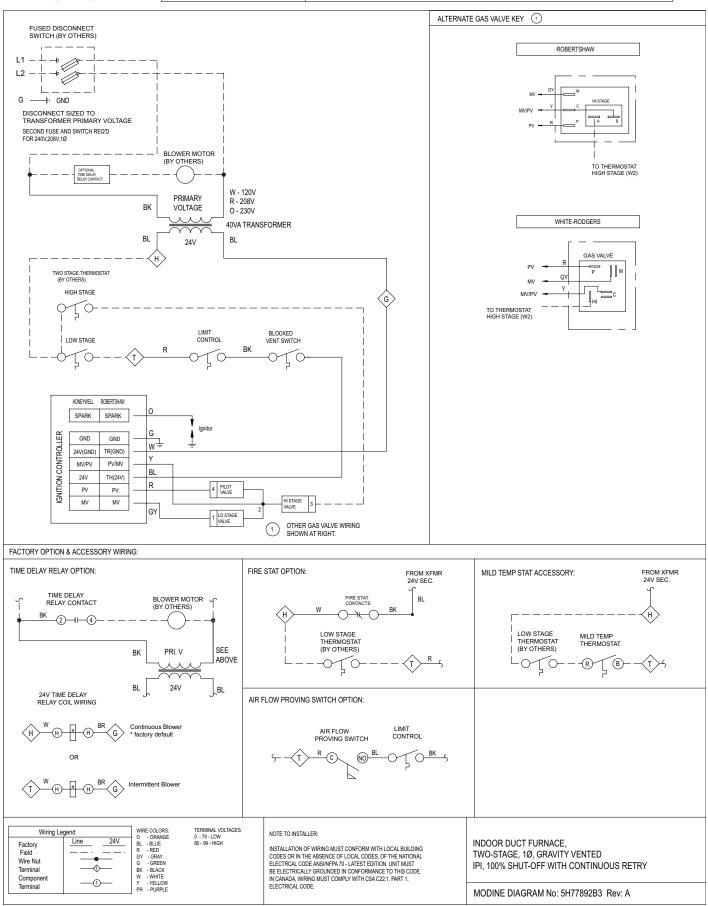
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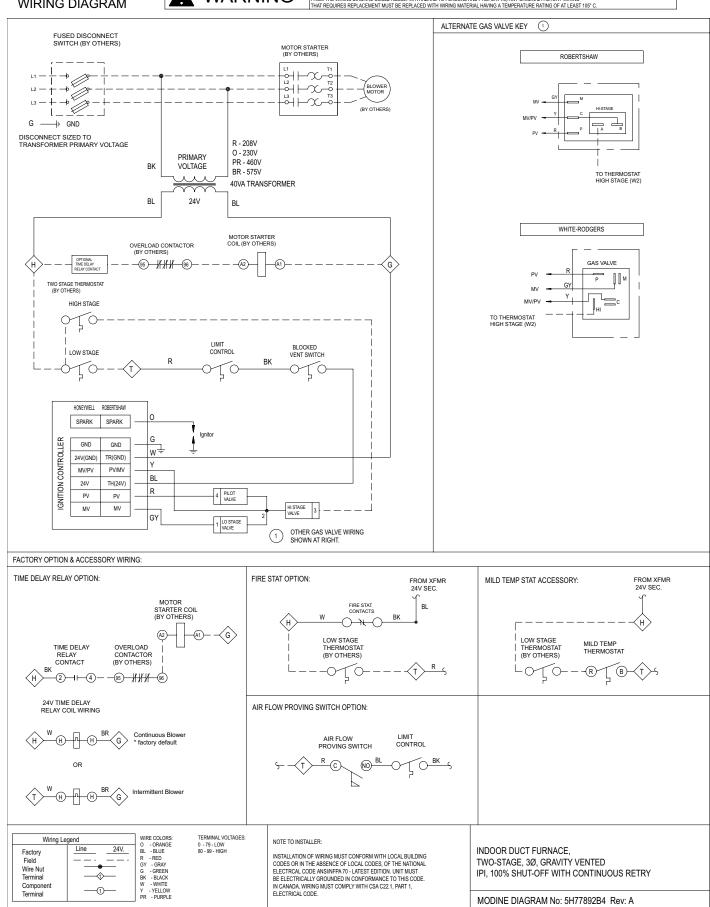
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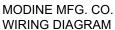


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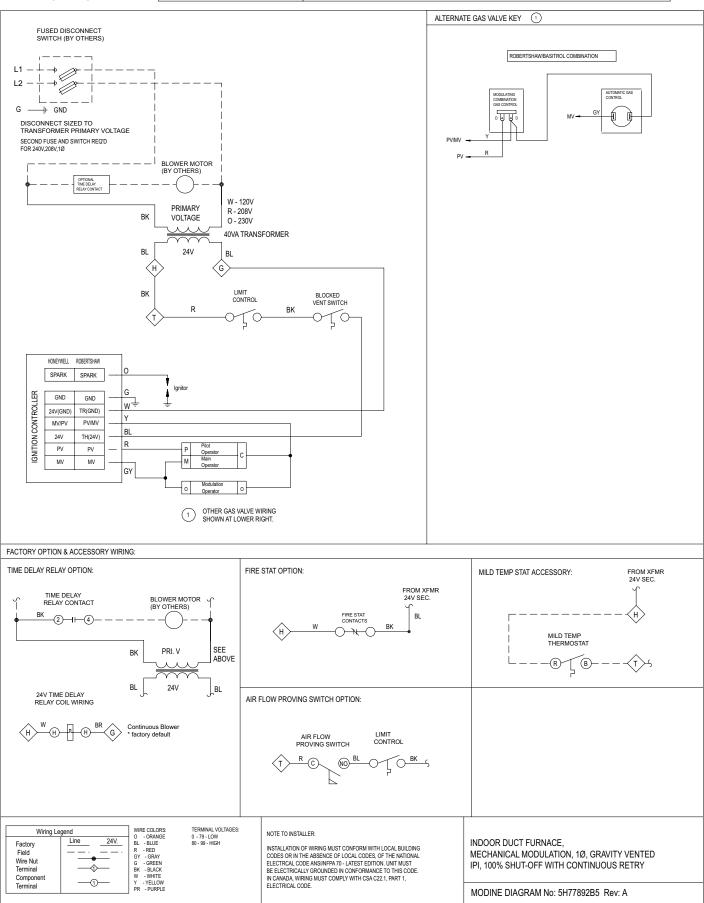
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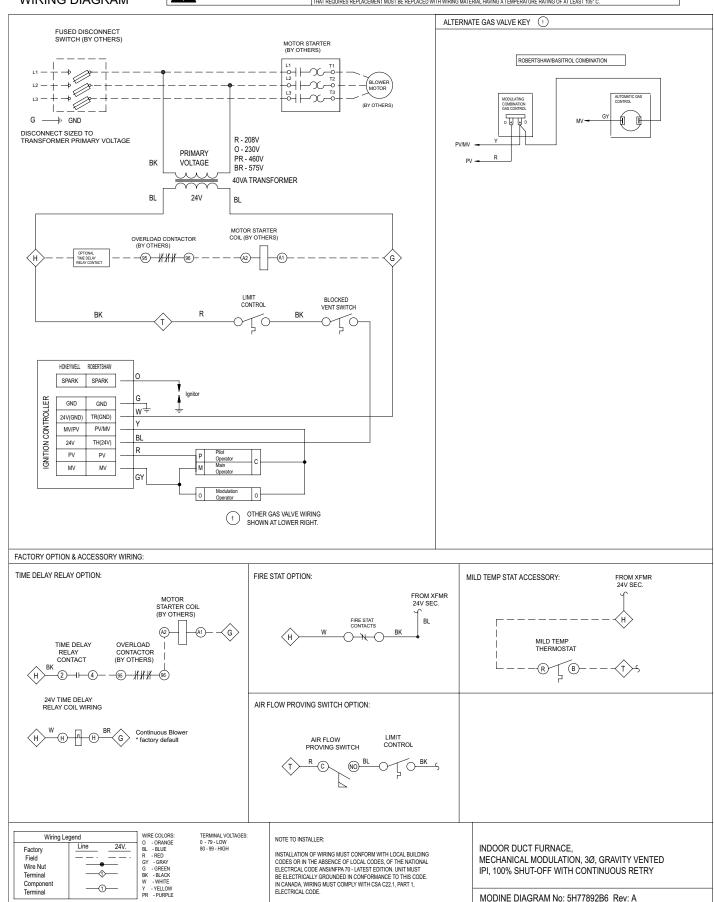
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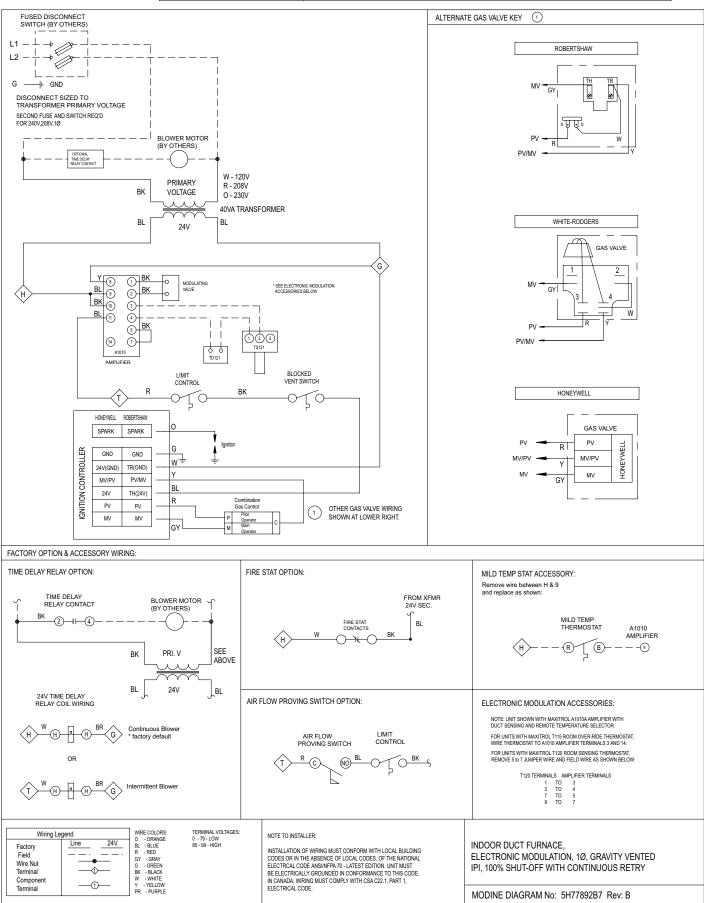
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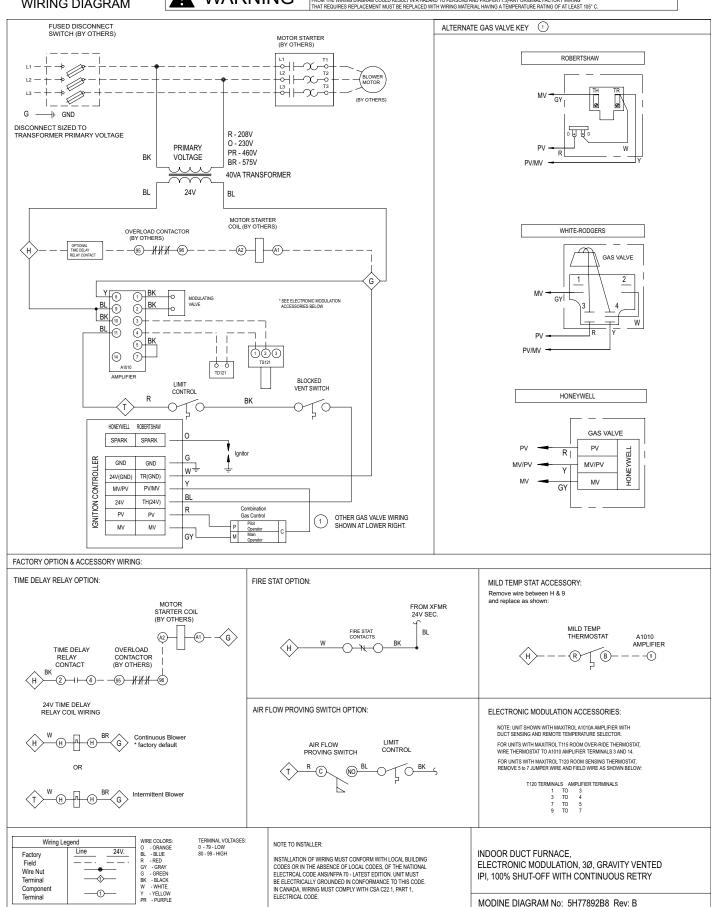
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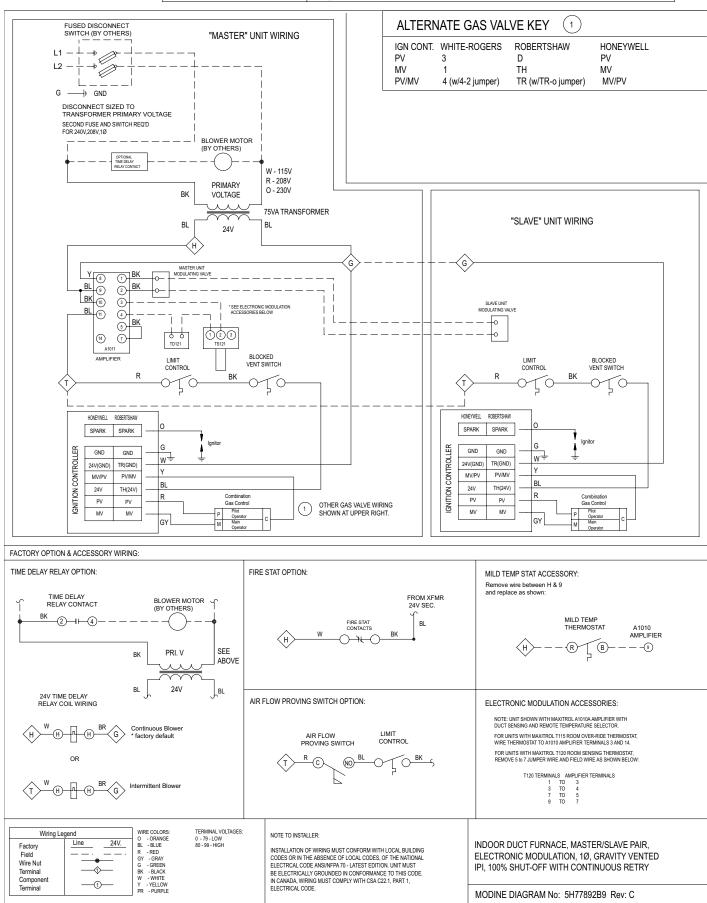
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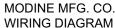






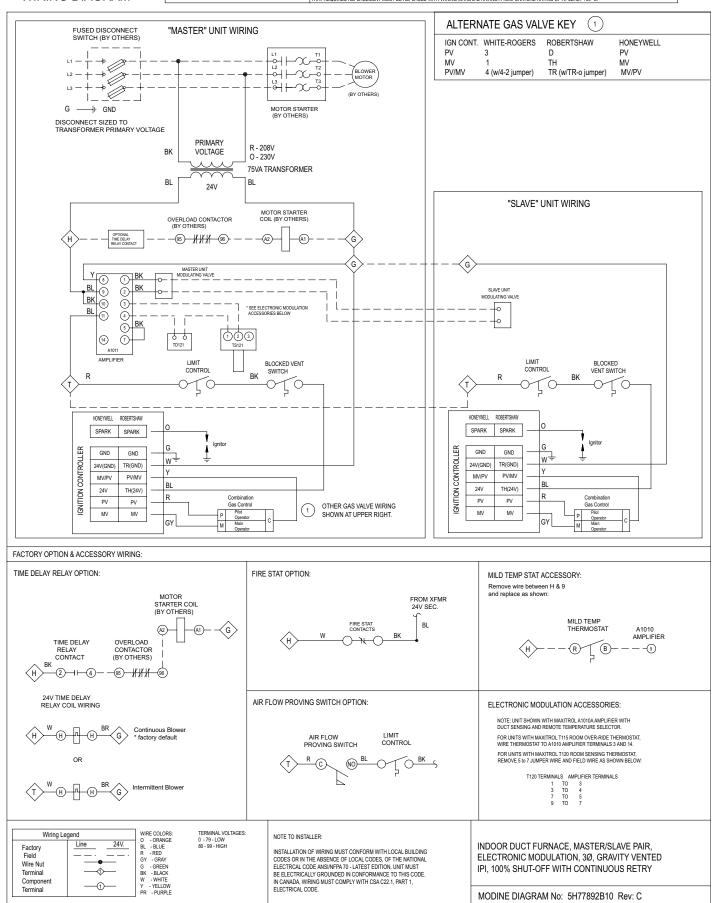
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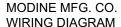






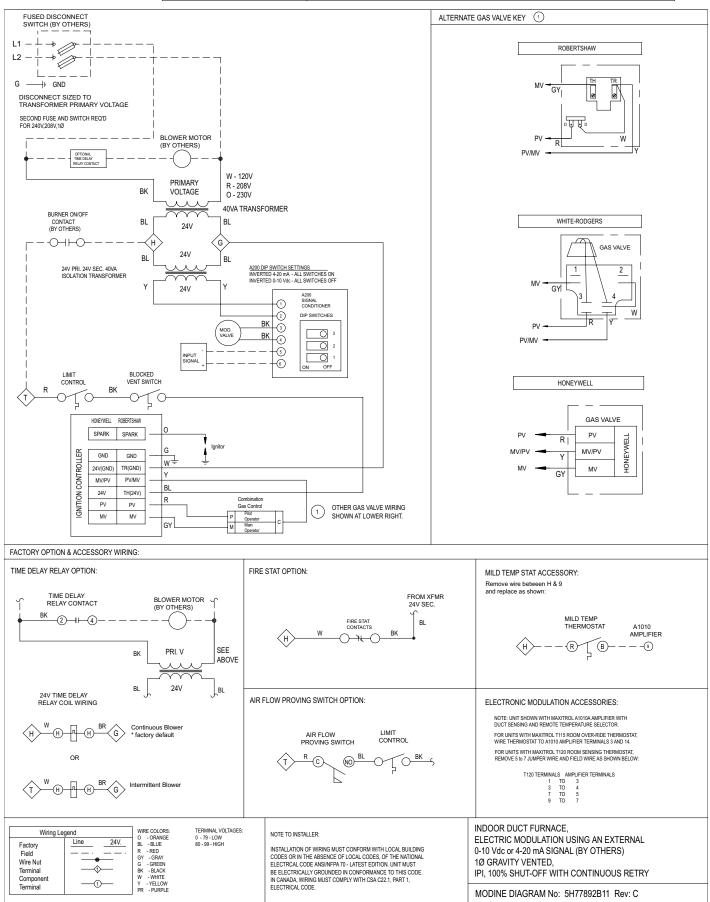
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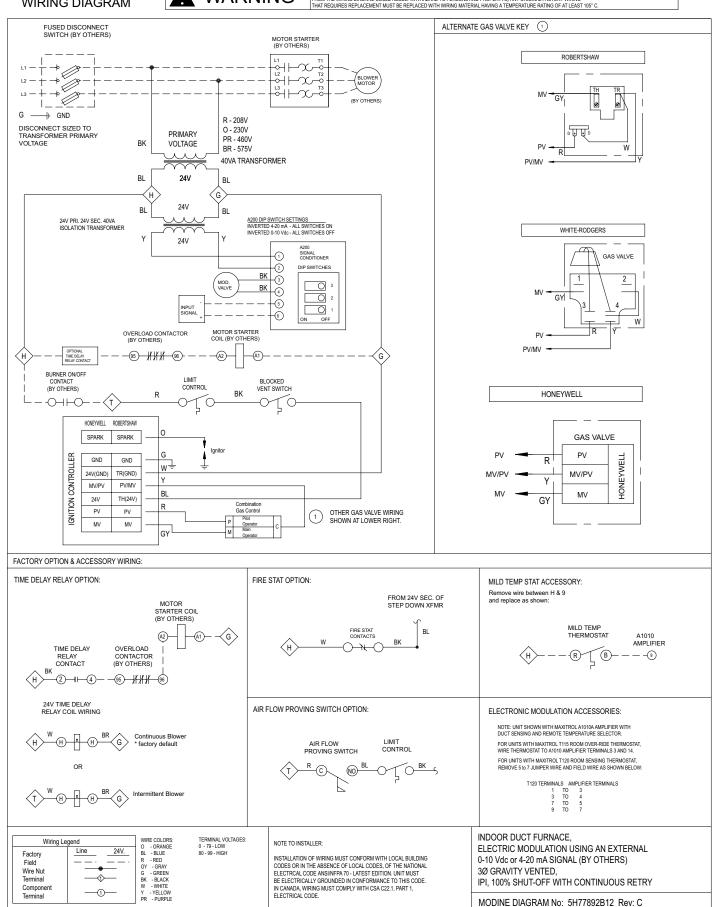
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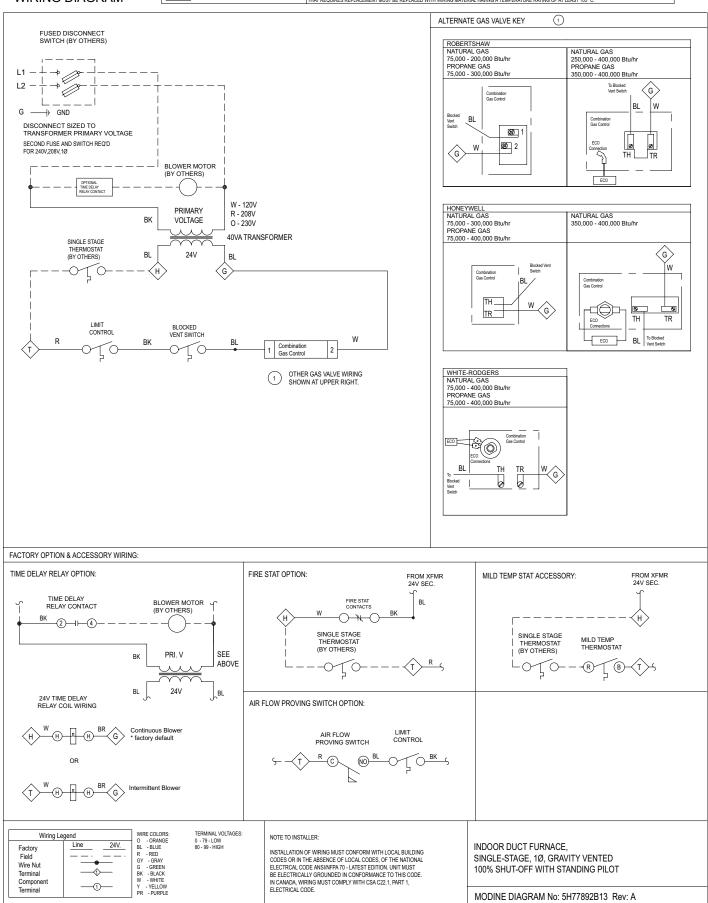
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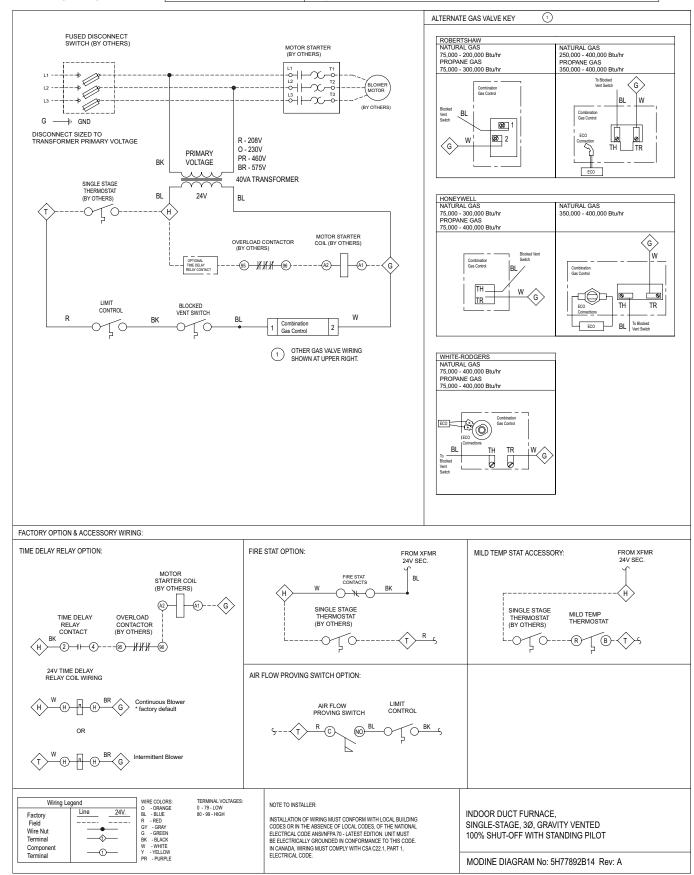
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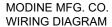


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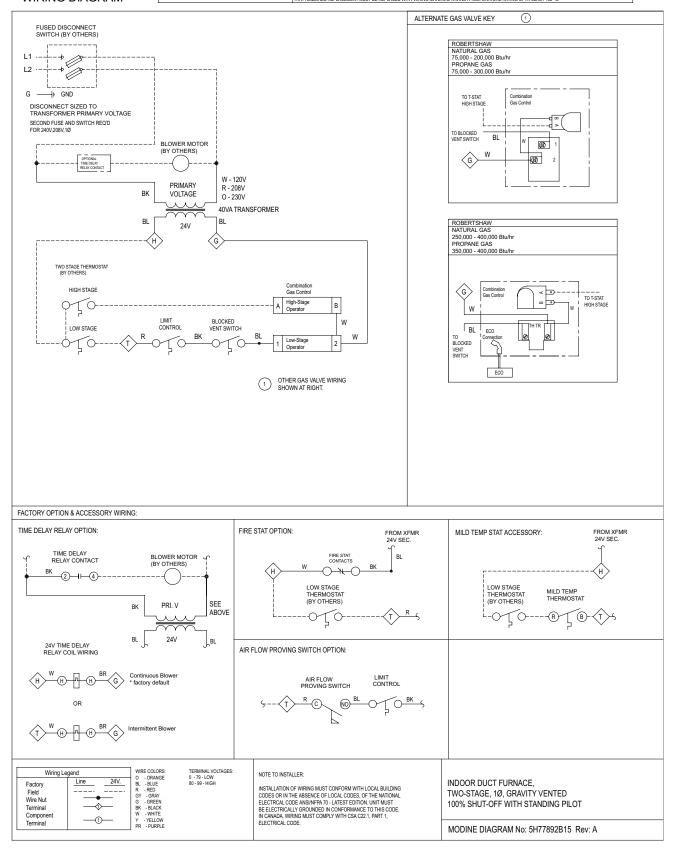
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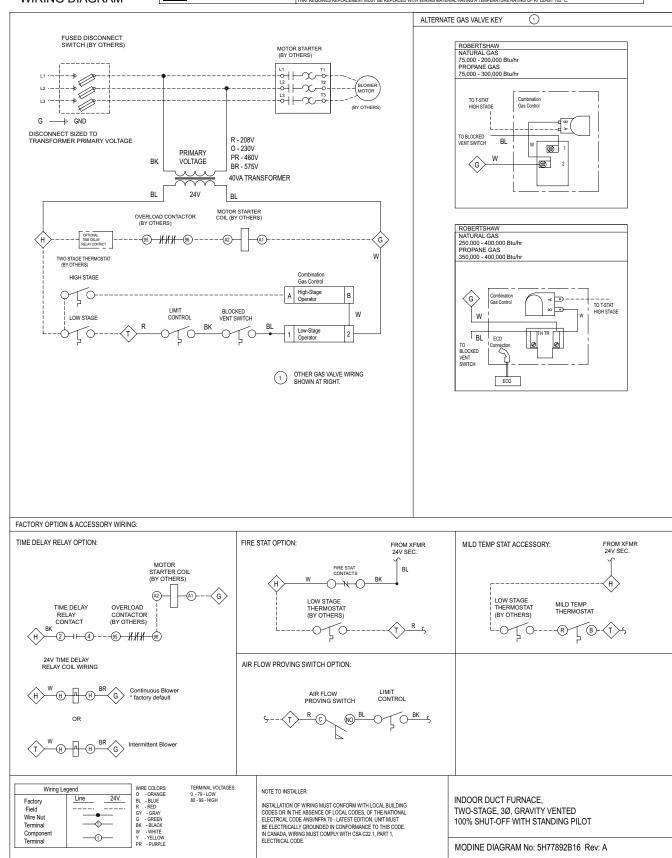
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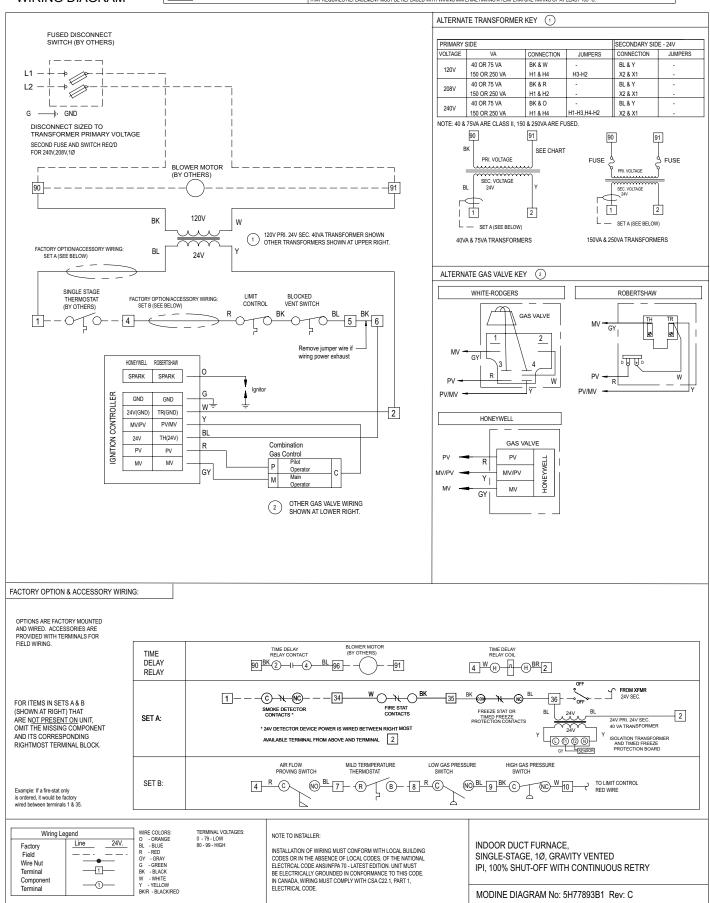
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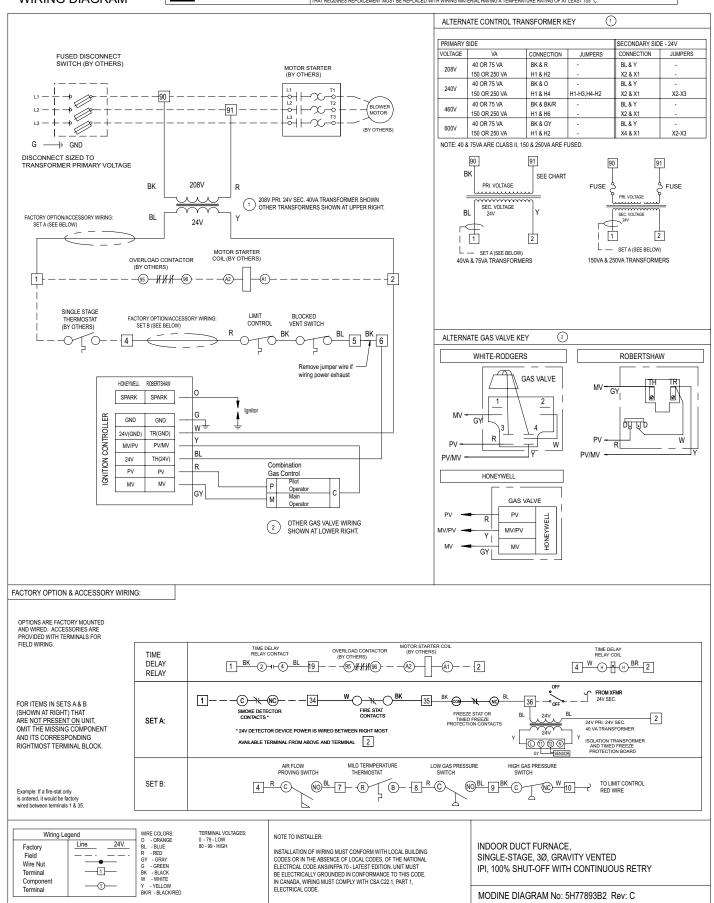
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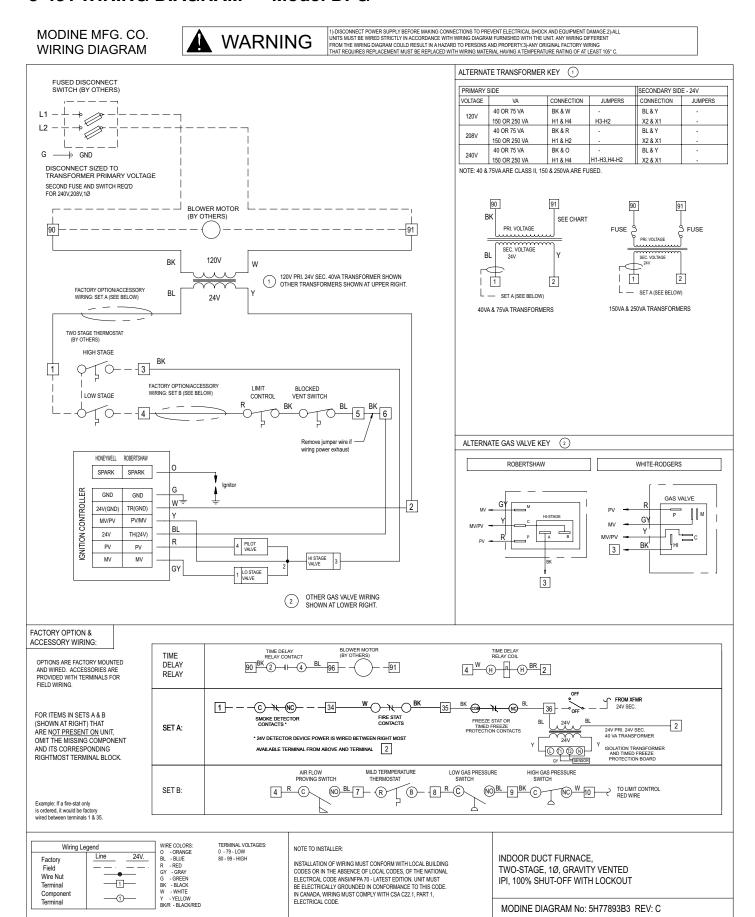


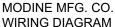
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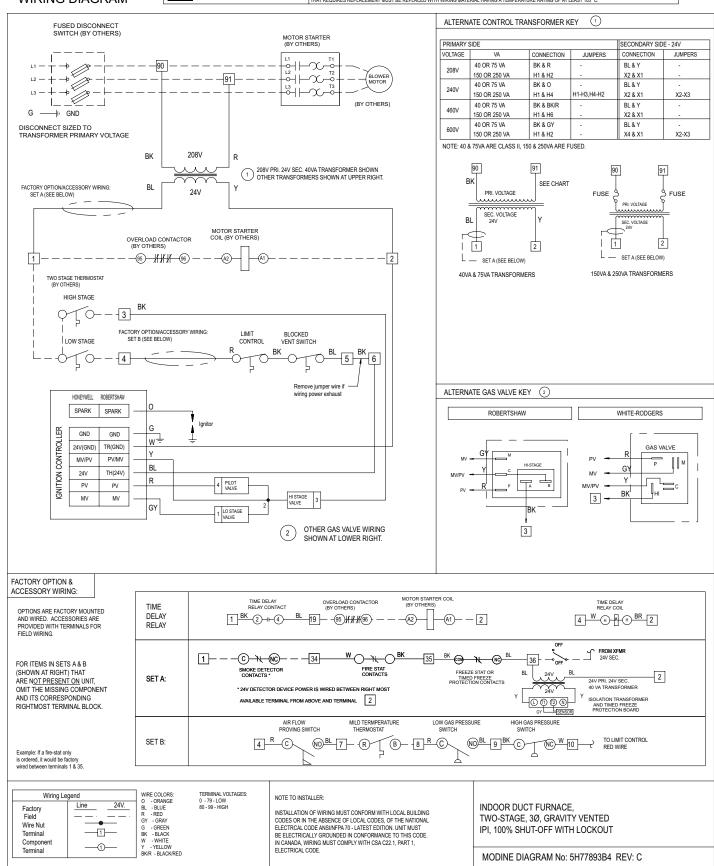


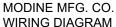






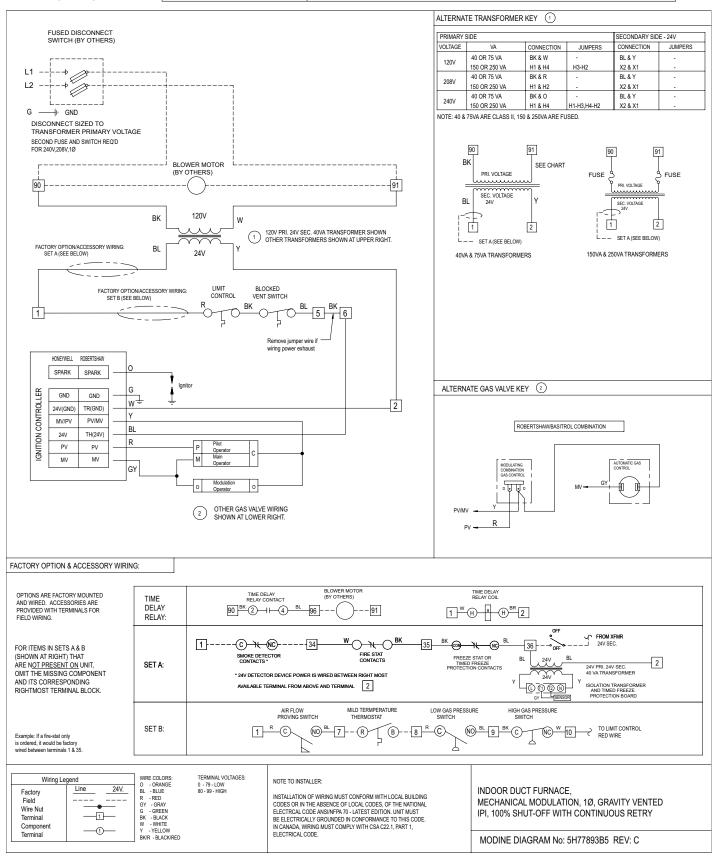
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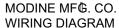






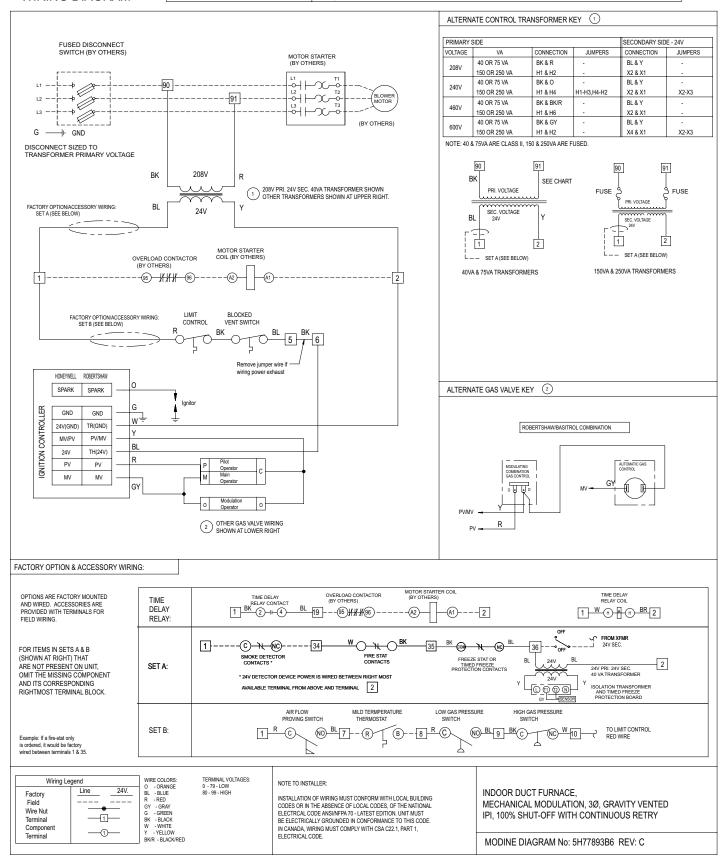
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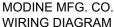






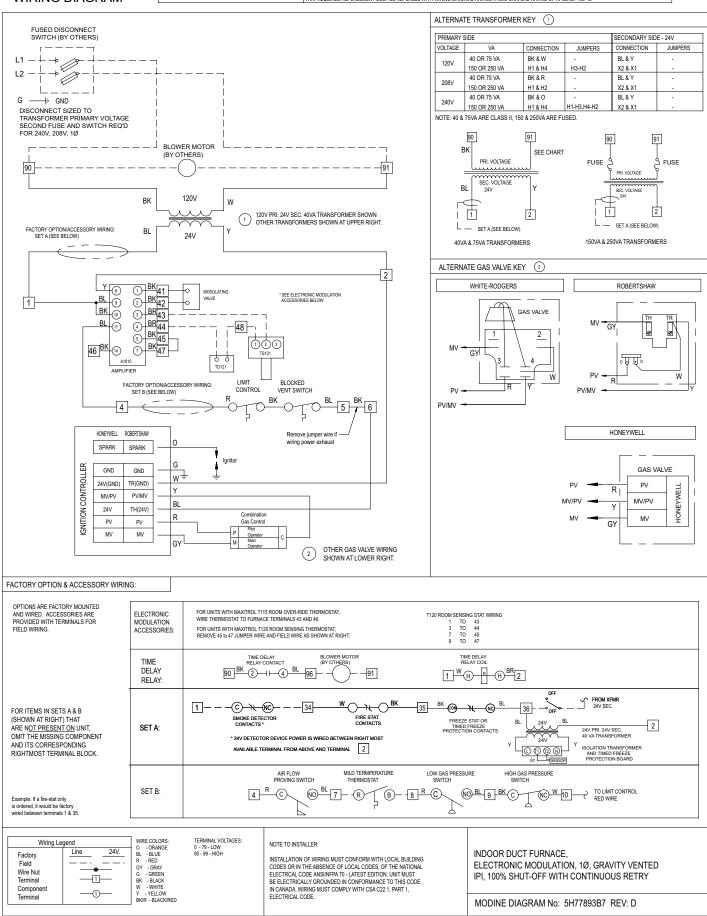
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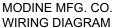






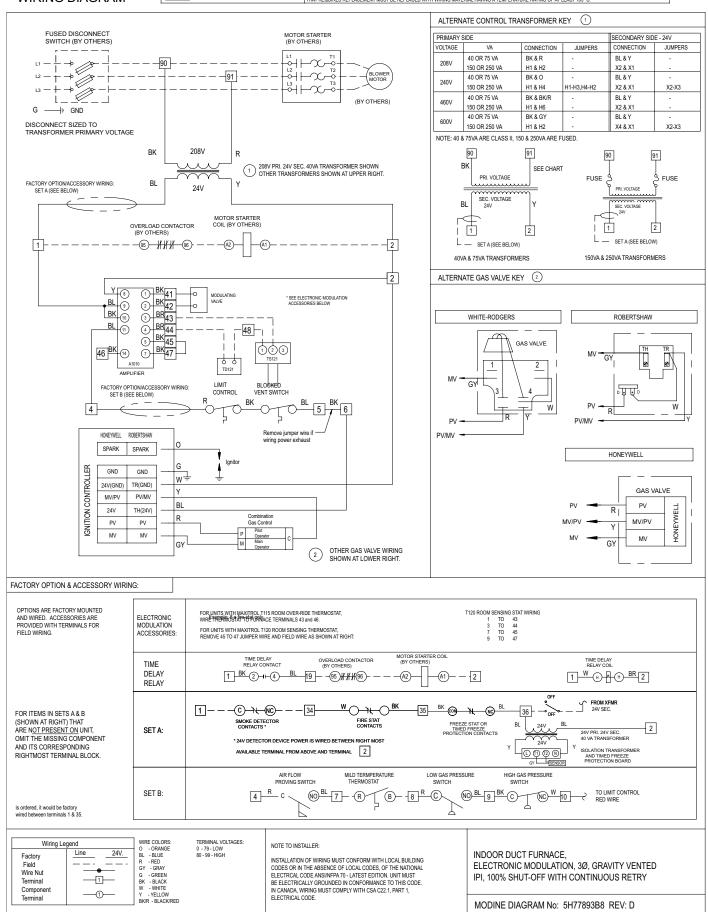
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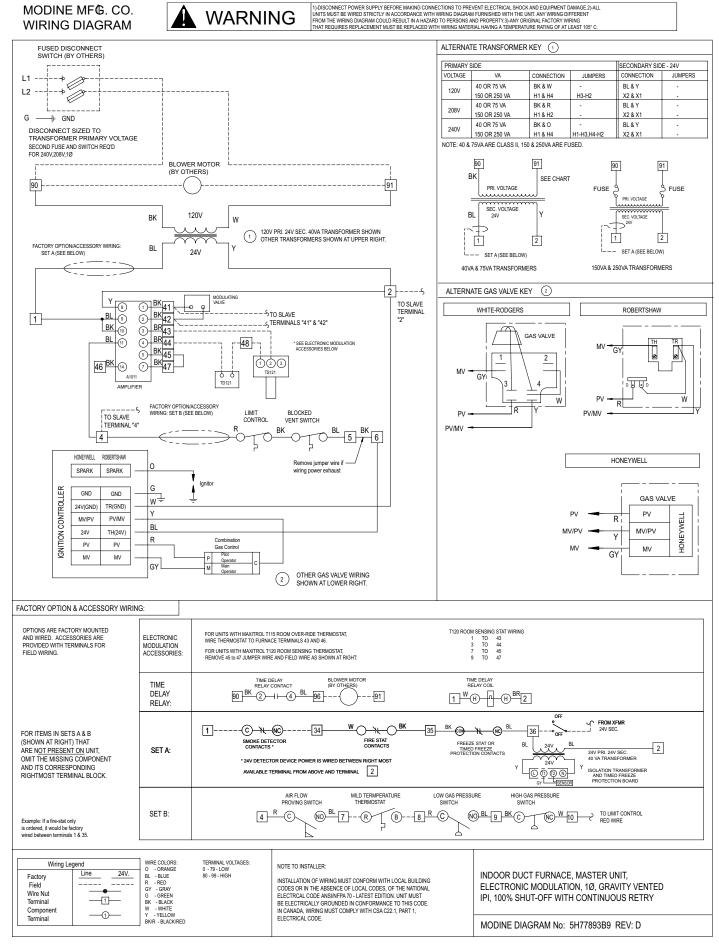






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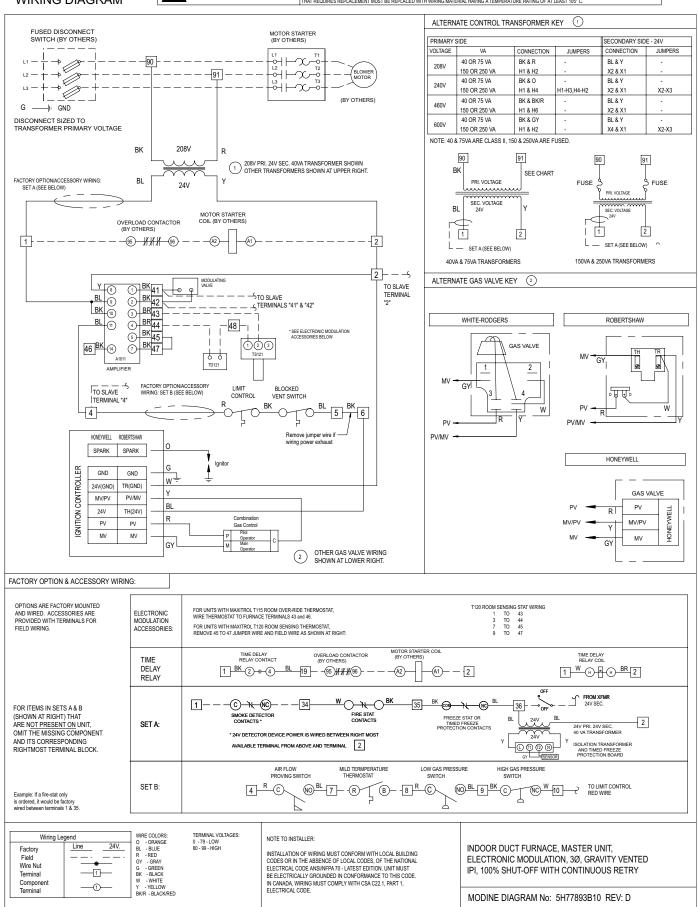








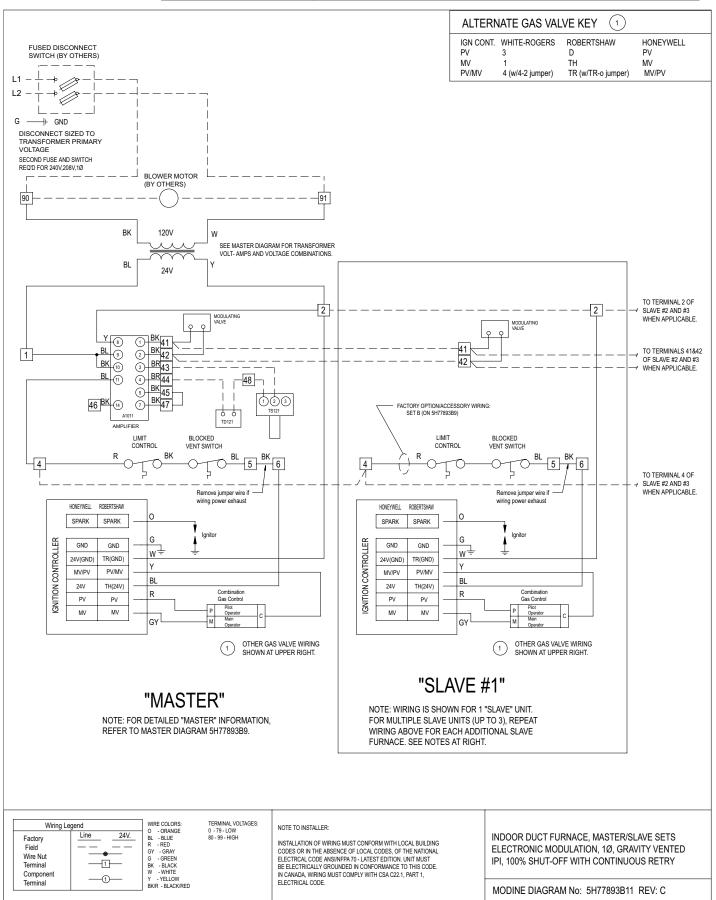
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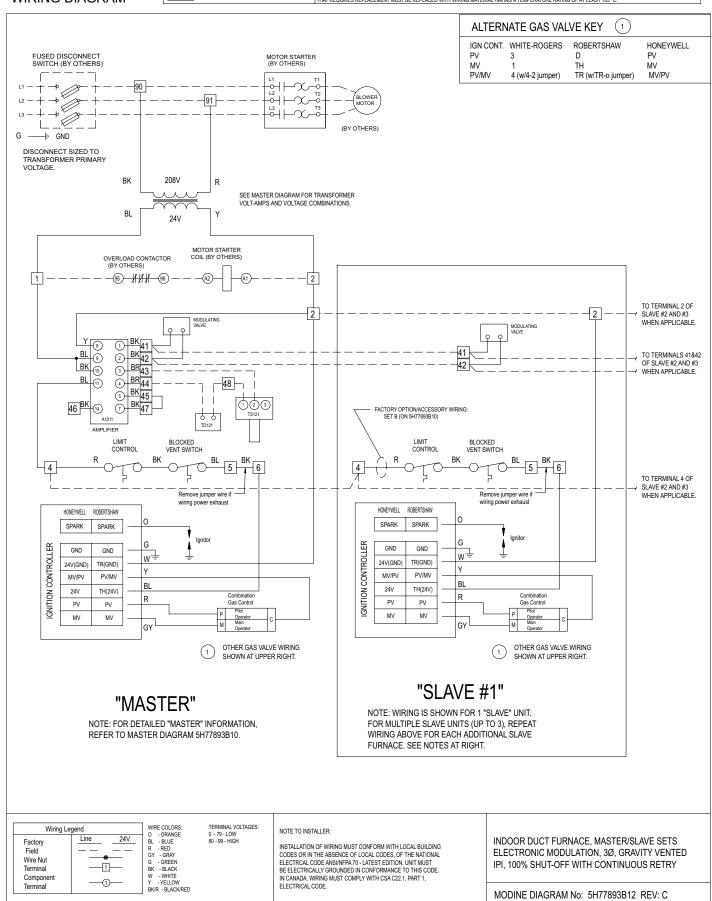
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MODINE MFG. CO. WIRING DIAGRAM



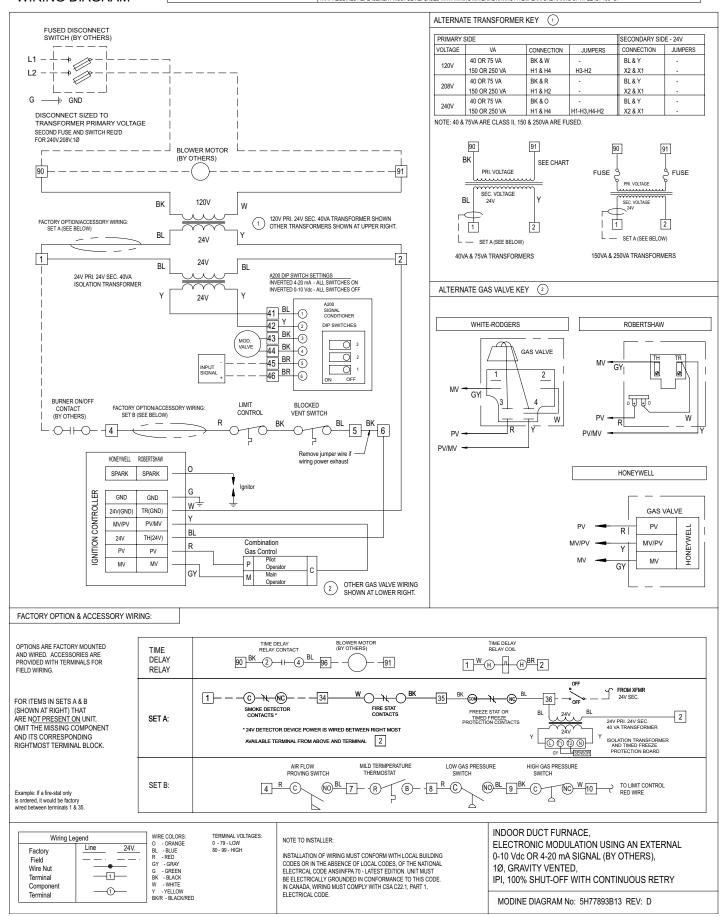
1) DISCONNECT POWER SUPPLY BEFORE MAKING CONNECTIONS TO PREVENT ELECTRICAL SHOCK AND EQUIPMENT DAMAGE 2)-ALL UNITS MUST BE WIRED STRICTLY IN ACCORDANCE WITH WIRING DIACRAM FURNISHED WITH THE UNIT. ANY WIRING DIFFERENT FROM THE WIRING DIACRAM COLD. RESULT IN A HAZBAT TO PERSONS, AND PROPERTY, SAMY ORIGINAL FACTORY WIRING THAT REQUIRES REPLACEMENT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C.



MODINE MFG. CO. WIRING DIAGRAM



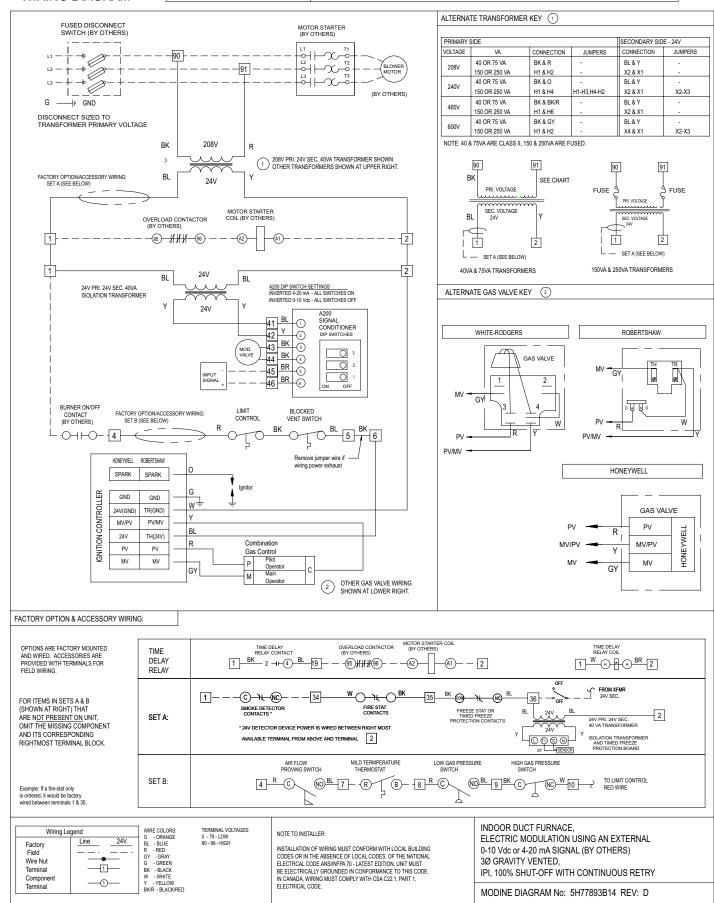
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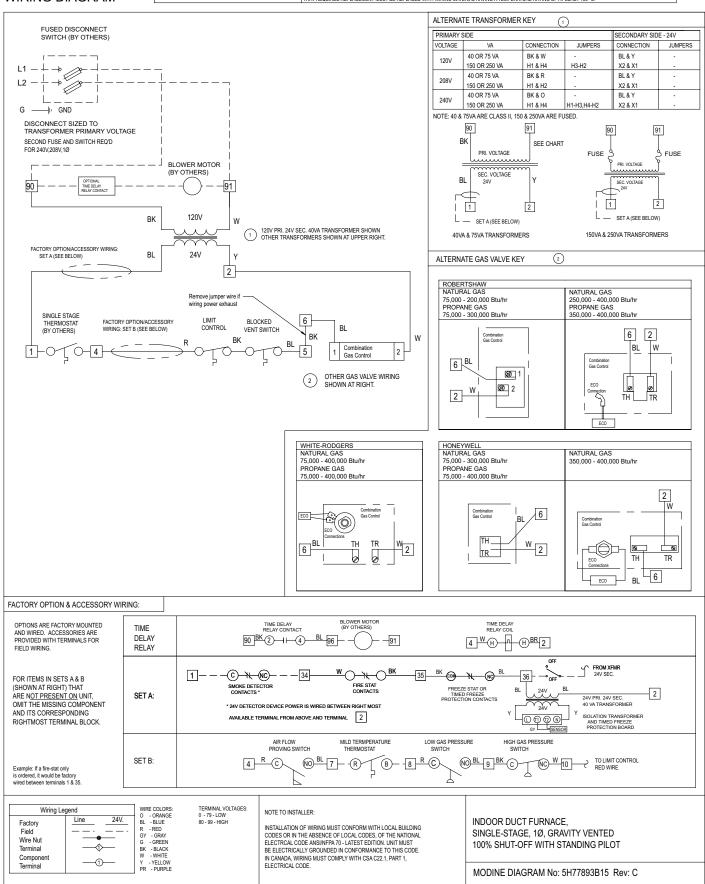
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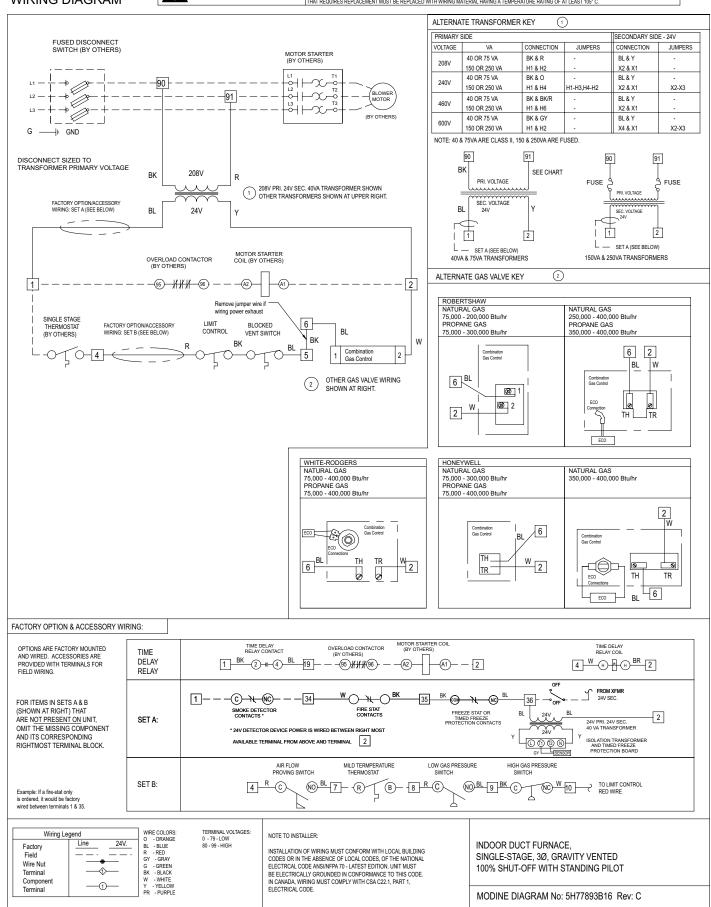
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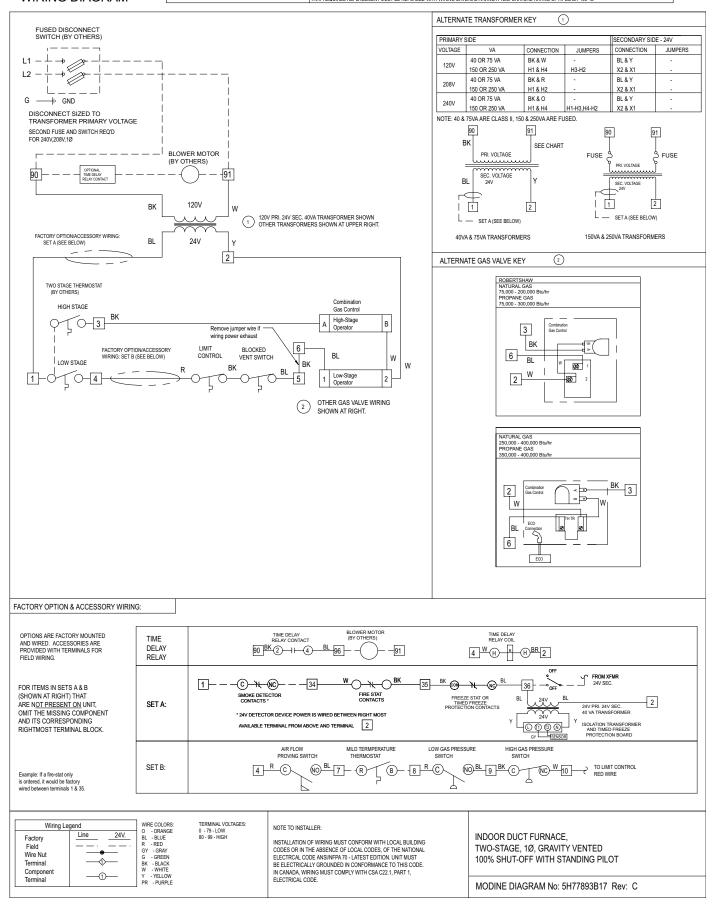
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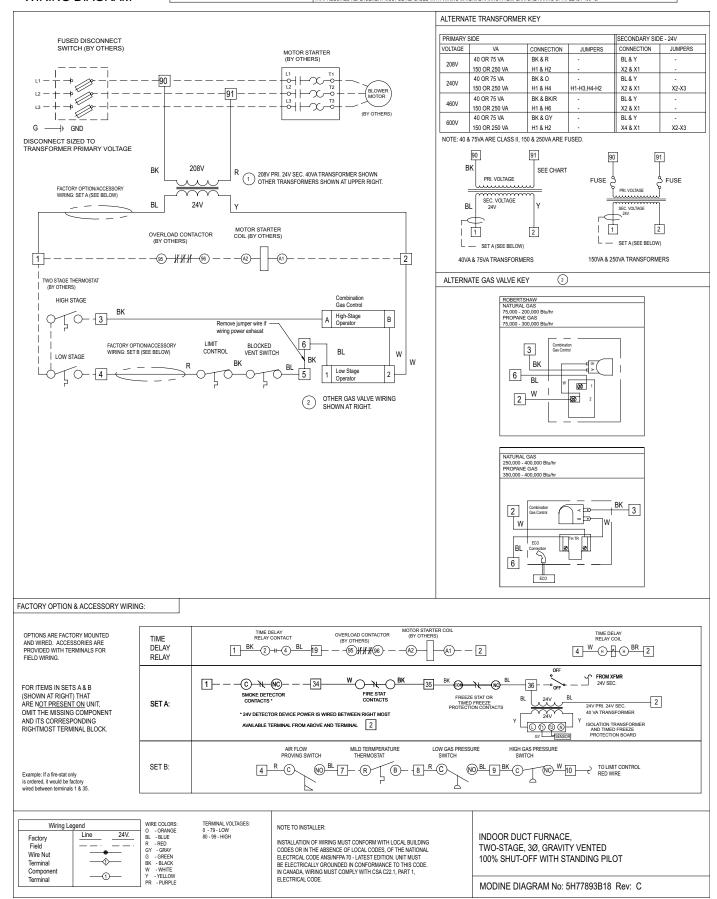
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11/05 - Litho in USA

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