

Wiring Diagram for 1000 Series Control Board

Class 2 Outputs (1A, 24VAC MAX, PILOT DUTY):

- HEAT STAGE 1: 74B (W1) to J7-3
- HEAT STAGE 2: 77A (W2) to J7-5
- DAMPER: 163A to J7-2
- COOL STAGE 1: 75A (Y1) to J7-2
- COOL STAGE 2: 73B (Y2) to J7-6
- FAN: 76C (G) to J7-4
- COMMON: 116E (R) to J7-1

Status Confirmation Inputs (Contact Closure Only):

- HEAT STAGE 1: 239B (160G, J) to 160G
- HEAT STAGE 2: 160G
- FILTER: 161B (161A, 240A, 240B, 160K, 160K, L.F.P) to 163A (DAMPER A) and 170B (DAMPER B)
- COOL STAGE 1: 241A (CLS-1, 160J, M) to 160J, M
- COOL STAGE 2: 242A (CLS-2, 160M, P) to 160M, P
- FAN: 162A (FAN FAILURE, 160F) to 160F
- COMMON: 160L

Override Switch Input:

- (+) 15
- (-) 16

Temperature Sensor Inputs:

- TEMP. SENSOR INPUT: 17 (-) 134A(BK) (NLTB-12) to BK (ZONE TEMP OR OPTIONAL R/A SENSOR)
- AUX. SENSOR INPUT: 18 (+) 172B(BK) (NLTB-13) to BR (SUPPLY AIR SENSOR)
- 19 (-) 171B(BK) (NLTB-14) to 171A(BK)
- 20 (-) 244A(BK) (NLTB-17) to NOVAR
- 21 SHIELD (NLTB-16) to COMM
- 22 (+) 245A(BR) (NLTB-15) to LOOP

Module Network:

- 23 TO TNS1
- 24 W 21 LINE VOLTAGE W 22
- 25 TNS4
- 26 170A, 170A, 36BC

24VAC, 8VA Class 2:

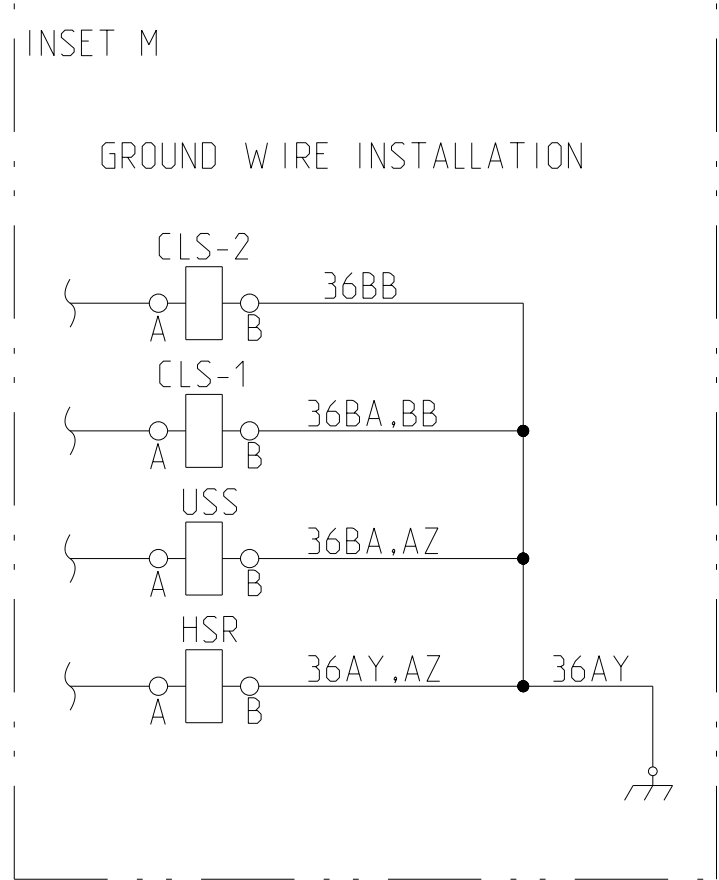
- 23 169A
- 24 170A
- 25 167A
- 26 168A

Night Mode Class 2 Output (1A, 24VAC MAX):

- 23 169A
- 24 170A
- 25 167A
- 26 168A

- 1 THIS UNIT HAS FACTORY INSTALLED NOVAR CONTROLS. REFER TO THIS DRAWING FOR NOVAR INTERFACE TO UNIT. SEE UNIT DIAGRAMS FOR BALANCE OF WIRING.
- 3 PLACE WIRING DIAGRAM PANEL ON INSIDE OF ACCESS PANEL.
- 5 ECONOMIZER ACTUATOR DRIVES TO MIN. POS. ON CALL FOR FULL ACTUATOR WILL MODULE TO MAINTAIN 50-55°F SUPPLY AIR ON A CALL FOR DAMPER AND OPTIONAL X-FAN WILL RUN. FOR FULL OPEN ECONOMIZER REPLACE MAS WITH A JUMPER.
- 6 ECONOMIZER MIN. POS. IS OVERRIDDEN TO FULL CLOSED DURING UNOCCUPIED PERIODS. PLACE JUMPER BETWEEN P AND P1 TO DISABLE THIS FUNCTION.
- 9 TO SHUT DOWN THE UNIT FOR EMERGENCY STOP, REMOVE JUMPER AND WIRE SMOKE DETECTOR BETWEEN THE TERMINALS. RELABEL REASSIGN NOVAR "FILTER STATUS" INPUT AS "SMOKE DETECTOR STATUS."
10. FOR STATUS WIRE GROUND WIRE CONNECTIONS SEE INSET M.
- 11 CONNECT WIRE W61 IN THE HEAT SECTION OF THE UNIT AT THE GAS VALVE OR ELECTRIC HEAT RELAY.
- 12 TO USE NOVAR STATUS INPUT AS CLOGGED FILTER. REMOVE THE JUMPER FROM NTB-1.2 AND INSTALL ON NTB-3.4.
- 15 CONNECT WIRE 87C WITH WIRE 87A(Y) AT CC1 AND WIRE 90C WITH WIRE 90A(Y) AT CC2.

ABBR	COLOR
BL	BLUE
BK	BLACK
PR	PURPLE
RD	RED
BR	BROWN



—TRIM

8.00 AFTER
REDUCTION