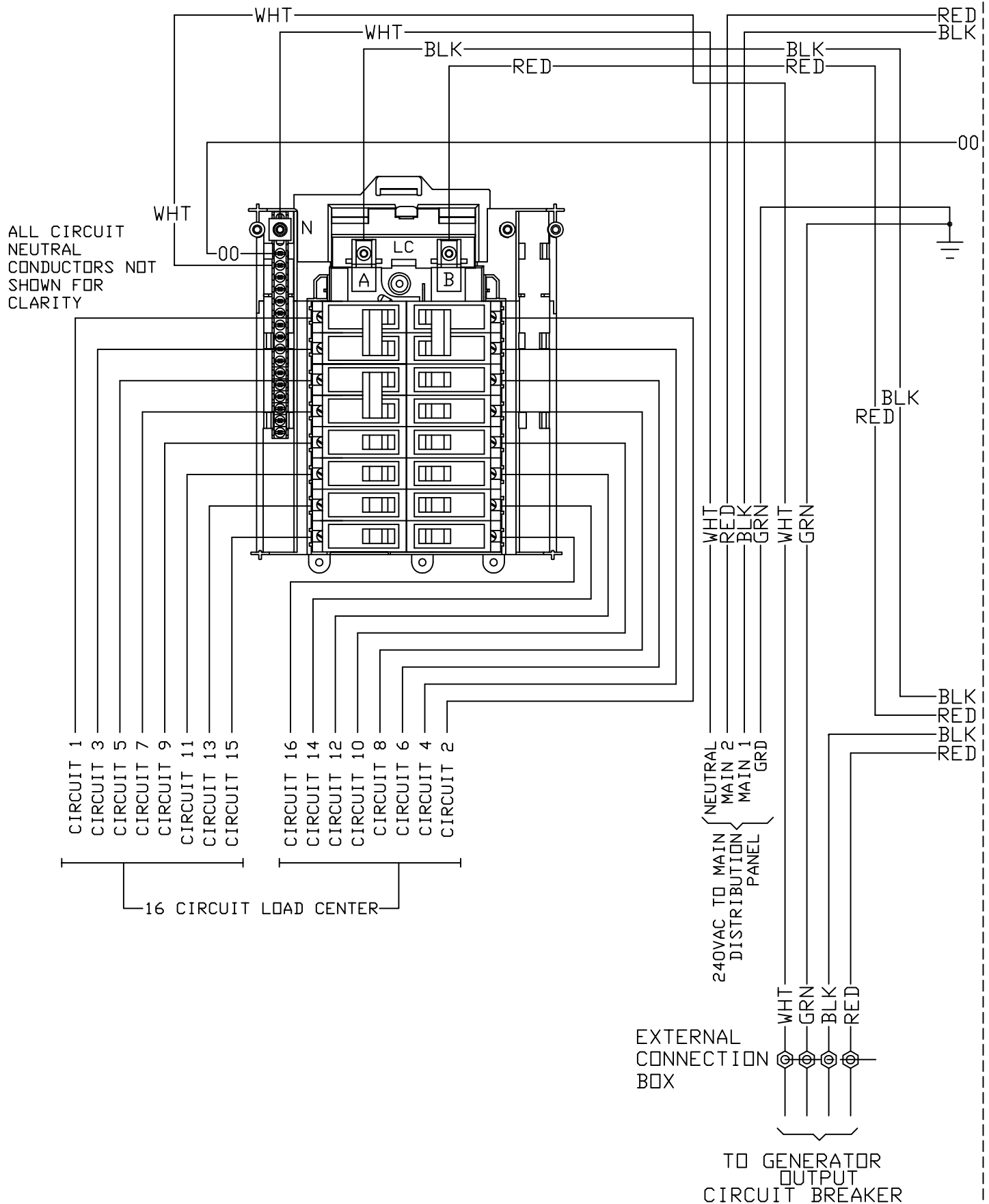


GROUP G



WIRING - DIAGRAM

HSB TRANSFER SWITCH 100A

DRAWING #:10000019053

The diagram illustrates the electrical connections for an Automatic Transfer Switch (ATS) system. It includes the following components and connections:

- Power Sources:**
 - Generator:** Provides T1, N1, and N2 lines.
 - Customer Load:** Provides E1, E2, T1, and T2 lines.
- ATS Unit:** Features terminals for N1, N2, E1, E2, T1, and T2. It also includes a terminal block for auxiliary connections (NC, NO, COM, AUX, NC, COM).
- Control Module (CM):** Receives signals from the ATS (T1A, E2) and provides control signals (T1, N1, N2, 0 GROUND, 194 +12V, 23 TRANSFER) to the external connection box.
- External Connection Box:** Connects the ATS and CM to the generator control panel via lines T1, N1, N2, 194, and 23.
- Wiring Details:**
 - Red (RED) and Black (BLK) lines are used for power and control.
 - Neutral (N) lines are connected to the N1 and N2 terminals.
 - Transfer (T) lines are connected to the T1 and T2 terminals.
 - Grounding is established at the 0 GROUND terminal.

LEGEND

- SW1-AUTOMATIC TRANSFER SWITCH
- C1-UTILITY COIL & RECTIFIER
- C2-GENERATOR COIL & RECTIFIER
- CM-CONTROL MODULE
- LC-CIRCUIT BREAKER (LOADS)
- (16 CIRCUIT SHOWN FOR REFERENCE ONLY)
- N-NEUTRAL
- SW2, SW3-LIMIT SWITCHES

WIRING - DIAGRAM
HSB TRANSFER SWITCH 100A
DRAWING #:10000019053