

Shunt-Trip Breaker Connection

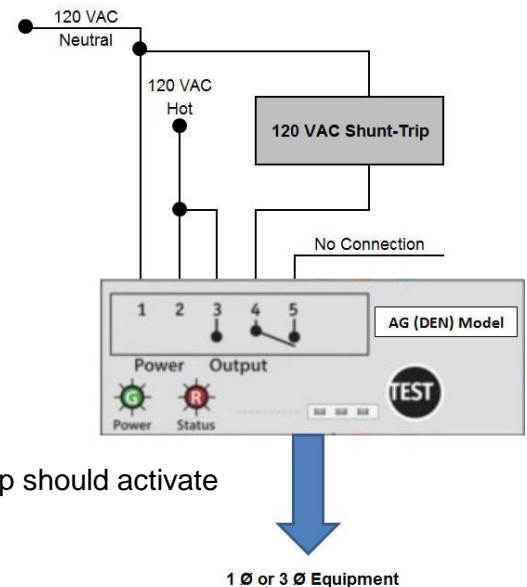


The drawing below illustrates how to connect the AG3-SDT1-120-DEN-TR3 NK ground fault sensor to a shunt-trip breaker. The sensor is powered by 120 VAC. In this installation the shunt-trip is also a 120 VAC powered model. The AG1-SDT1-120-DEN-xxx (factory set trip-point) uses the same installation.

Installation Steps:

This installation applies to the **DEN Model ONLY**

1. Run the monitored conductors through the NK sensor. They should include all hots and neutral if present. The ground is **NOT DOES NOT** pass through the sensor.
2. Connect the 120 VAC power to terminals 1 and 2 on the sensor. For ease of connection to the output we recommend connecting the 120 VAC HOT to terminal 2
3. Jumper the 120 VAC HOT from terminal 2 to terminal 3 (Normally Open)
4. Connect one side of the Shunt-Trip to terminal 4 (Common)
5. Connect the other side of the Shunt-Trip to the 120 VAC Neutral.
6. Terminal 5 on the sensor is No Connection
7. Adjust the Trip-Point (TR3 model)
 - 5 mA, No Jumper is used
 - 10 mA, Jumper in Left Position
 - 30 mA, Jumper in Right Position
8. With the 120 VAC active, press the TEST button and the Shut-Trip should activate



For the **ENE Model**, steps 1 and 2 remain the same

3. Jumper the 120 HOT from terminal 2 to terminal 5 (Normally Closed)
4. Connect one side of the Shunt-Trip to terminal 4 (Common)
5. Connect the other side of the Shunt-Trip to the 120 VAC Neutral
6. Terminal 3 on the sensor is No Connection

Steps 7 and 8 remain the same

Authorized NK Distributor

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