

Features and Benefits

- Simple dip switch setting
- Compact 19" rack mount case
- Digital technology
- Checks coil continuity regardless of breaker status
- Simultaneous supervision of up to three different coils
- Measures real resistance
- Time delay feature prevents misoperation during transitions
- Inhibition switch for use during maintenance

Applications

Supervising breaker tripping and closing coils

Protection and Control

- Breaker coils supervision
- Circuit breaker control power undervoltage

Monitoring and Metering

■ DC power supply, coil resistance



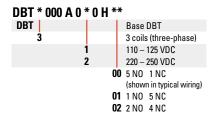
Protection

The DBT is a digital relay that supervises the integrity of the breaker's tripping and closing coils. The relay checks the continuity of the coil regardless of the status of the breaker on single or three-pole tripping schemes. It can supervise three coils at the same time. A DC undervoltage unit checks the circuit breaker operating power supply voltage.

Monitoring and Metering

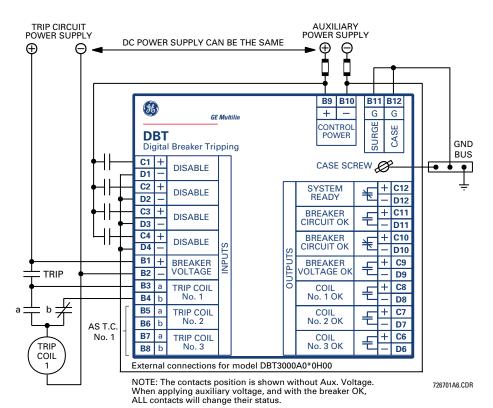
The DBT relay has an advantage over coil supervision relays which are based only on continuity, as it also measures real resistance. The advantage of this method is selectivity. The DBT is able to detect failures in the circuit breaker coils even when there are coils from different auxiliary circuits connected in parallel. In this situation a failure or a broken lead would not be detected based only on continuity. because there would be an alternative path in the parallel coil. The resistance measurement used by the DBT will detect this condition. In order to make this resistance measurement it injects a 5 mA current, measures the voltage drop, and calculates the resistance.

Ordering

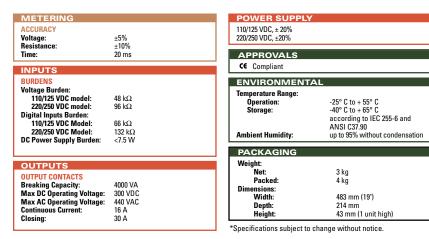


NOTE: If the breaker has only one coil, one DBT can be used to supervise three breakers, provided they use the same voltage supply.

Typical Wiring



DBT Technical Specifications



Dimensions

