



PCS-985RE

Rotor Earth-Fault Relay

The PCS-985RE is mainly designed for rotor earth fault with external voltage injection. Because of adopting self-adaptive active switching technology, the PCS-985RE can still supervise rotor insulation even if no excitation voltage is applied. It has high sensitivity and the same sensitivity to any one-point earth fault within the rotor winding. The automatic and manual control function to electric brush ensure rotor earth fault protection can be applied to the brushless exciter units. It fully supports IEC-61850 communication.

Functions

Protection Function

- One-point earth-fault protection of rotor
- Two-point earth-fault protection of rotor
- Definite-time control of electric brush
- Manual control of electric brush
- Frequency regulation of external injected voltage
- Fault location
- External injected voltage supervision

Miscellaneous Function

- Self diagnostic
- External DC power supply monitoring and alarming

- GPS clock synchronization
- Fault recorder
- IEC61850 MMS & GOOSE for station bus
- IEC60870-5-103 protocol
- MODBUS protocol

Features

- Support browsing and modifying setting group and protection settings remotely.
- Support checking protection state and resetting signal remotely.
- The calculation of earthing resistance has nothing to do with the earthing position, so there is no dead zone.
- High accuracy of the calculation of earthing resistance, and not affected by the capacitance between rotor winding and earth.
- The calculation of earthing resistance is excitation-voltage independent, so the device can monitor the insulation of rotor without excitation voltage.
- Flexible rotor winding connection, double-ends injecting or single-end injecting wiring can be selected.