List of protection units

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>50BF</td>
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<tr>
<td>50/51</td>
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<tr>
<td>50N/51N</td>
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<tr>
<td>50Q/51Q</td>
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<tr>
<td>50Ns/51Ns</td>
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<tr>
<td>67N</td>
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<tr>
<td>67Ns</td>
<td>Sensitive Ground Directional Overcurrent.</td>
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<tr>
<td>67Na</td>
<td>Isolated Ground Directional Overcurrent.</td>
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<td>67Nc</td>
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<td>67Q</td>
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<td>Overvoltage Element.</td>
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<tr>
<td>81M/m</td>
<td>Over/Underfrequency.</td>
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</table>
Additional Functions

- Cold Load Pick-Up.
- Trip and Close Coil Circuit Supervision.
- Breaker Monitoring (KA2) and Excessive Number of Trips.
- Fault Locator.
- Phase Sequence Selection.
- Selection of the Number of Voltage Transformers.
- Integrated Simulator.
- Four (4) Settings Groups.
- IEC and IEEE (ANSI) selectable curves.
- Control and displaying:
  - Alphanumeric Display.
  - Two (2) dedicated push-buttons for breaker control (open and close).
  - Graphic Display and dedicated Control push-buttons.
- Programmable Logic.
- Led targets.
- Configurable Digital Inputs (8 to 83).
- Configurable Auxiliary Outputs (6 to 30).
- Communications Ports:
  - One (1) front Local Port (RS232 and USB).
  - Up to three (3) remote ports: PR1 (F.O or RS232); PR2 (F.O or RS232/RS485) and PR3 (RS232/RS485).
  - Two (2) LAN Ports (RJ45) or F.O (MT-RJ) Ethernet.
  - One (1) Remote Port (CAN Protocol).
  - 100TX Port for IEC61850 Protocol.
- Communication Protocols: Procome 3.0, DNP3.0 and Modbus (selectable) and IEC61850.
- Time Synchronization (IRIG-B 003 and 123 Protocol) or via communications.
- Event Record and Metering History Log.
- Oscillographic Recording (CONTRADE 99 Format).
- Power Supply Voltage Monitoring (depending on model).
- ZivercomPlus® Communications Software.