

Nanocrystalline and Amorphous

Iron Core For Ground Fault Interrupter

Characteristics and use of the product:

The iron core is made of Fe-Ni-based amorphous alloy (SFC201), nanocrystalline soft magnetic alloy (SNC101,102), and may be used for the domestic and industrial devices, which require high sensitivity.

Iron core specifications and performances for high-sensitivity ground fault interrupters.

| Model | Size (mm) | Primary An, Secondary Turn Ratio N1:N2 | Input Current at 50Hz (mA) | Output Voltage (mv) | | |
|------------|------------|---|----------------------------------|---------------------|------------|------------|
| | | | | Grade A | Grade B | Grade C |
| TIE-C-AN60 | φ8/12×5.0 | 1:1 | 50 | >1.0 | >0.7 | >0.5 |
| TIE-C-AN61 | φ10/14×6.5 | 1:1 | 50 | >1.0 | >0.7 | >0.5 |
| TIE-C-AN62 | φ17/25×6.5 | 1:1 | 50 | >1.0 | >0.7 | >0.5 |

Iron core specifications and performances for domestic ground fault interrupters

| Model | Size (mm) | Primary An, Secondary Turn Ratio N1:N2 | Input Current 50 (mA) | Output Voltage (mv) | | |
|------------|------------|---|--------------------------|---------------------|------------|------------|
| | | | | Grade A | Grade B | Grade C |
| TIE-C-AN63 | φ13/20×10 | 1:1 | 100 | >2.5 | >1.8 | >1.4 |
| TIE-C-AN64 | φ14/19×6.5 | 1:1 | 50 | >1.5 | >1.0 | >0.7 |
| TIE-C-AN65 | φ15/20×10 | 1:1 | 50 | >1.8 | >1.4 | >1.0 |
| TIE-C-AN66 | φ15/22×10 | 1:1 | 50 | >2.0 | >1.4 | >1.0 |
| TIE-C-AN67 | φ15/27×10 | 1:1 | 50 | >1.5 | >1.0 | >0.5 |

Iron core specifications and performances for industrial ground fault interrupters

| Model | Size(mm) | Primary An,Secondary Turn Ratio N1:N2 | Input Current 50(mA) | Output Voltage(mv) | | |
|------------|---------------|--|-------------------------|--------------------|------------|------------|
| | | | | Grade A | Grade B | Grade C |
| TIE-C-AN68 | φ18/28×10 | 1:1 | 100 | >3.0 | >2.5 | >2.0 |
| TIE-C-AN69 | φ23/33×15 | 1:1 | 100 | >8.0 | >6.0 | >5.0 |
| TIE-C-AN70 | φ40/50×10 | 1:1 | 100 | >2.5 | >2.0 | >1.5 |
| TIE-C-AN71 | φ50/60×10 | 1:1 | 100 | >2.0 | >1.5 | >0.7 |
| TIE-C-AN72 | φ55.5/65.5×10 | 1:1 | 100 | >1.5 | >1.0 | >0.5 |