



AMRAN

INSTRUMENT TRANSFORMERS

SWITCHGEAR STYLE CURRENT TRANSFORMERS



Amran Switchgear Style Current Transformer

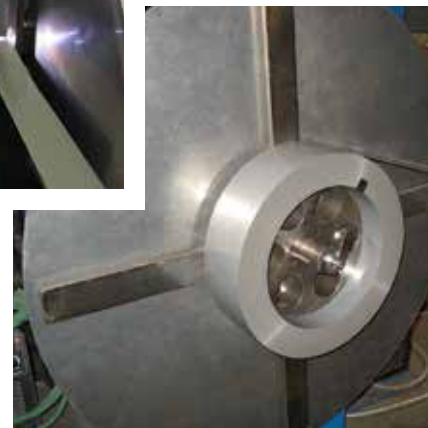
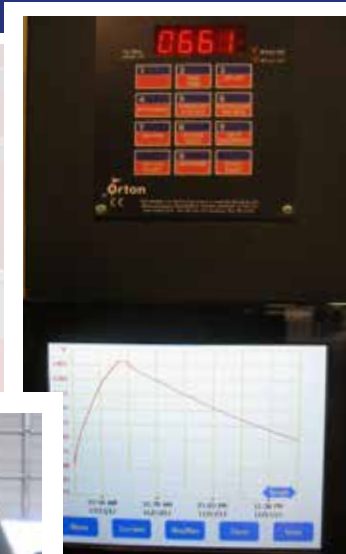


Amran specializes in manufacturing a broad range of Current Transformers specifically for Low and Medium Voltage Switchgear. Single and Multi Ratio CTs are specifically designed to mount inside switchgear panels through the corner mounting holes. Switchgear style CTs are produced with the highest quality standards and they are designed in-house to meet exact customer specifications and requirements.

Amran core manufacturing facilities and equipment are designed to be flexible to incorporate rapid changes in core sizes and shapes.

Product Features

- UL Recognized
- cUL Recognized
- IEC 61869-1, IEC 61869-2, IEC 60044
- CE Marking
- CSA Certified
- IEEE ANSI C57.13 standard



CT catalog sheets and part number cross reference sheets are available on www.amranit.com/datasheets

Electrical Steel/Core Manufacturing/Annealing

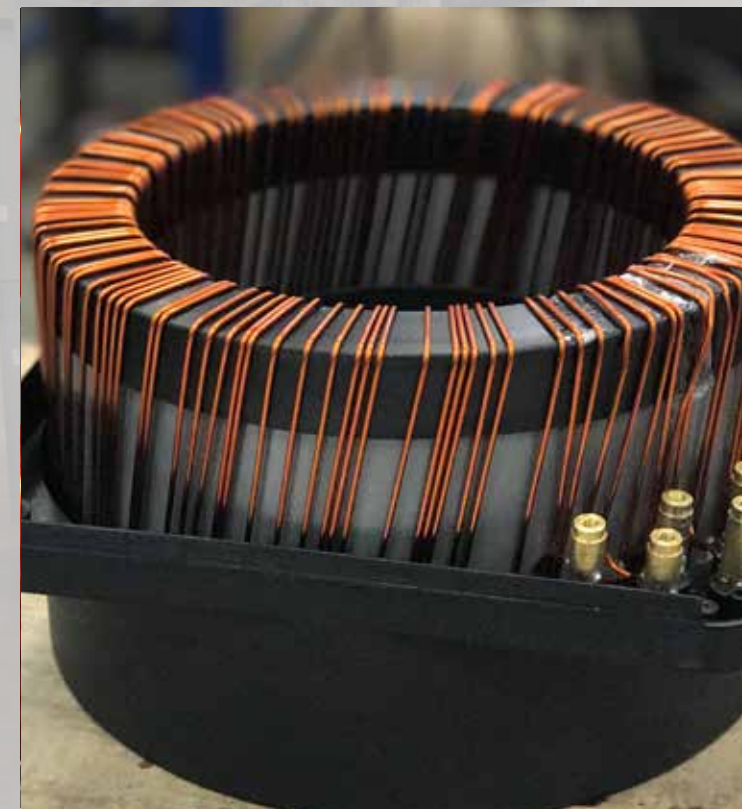
- The finest quality of grain oriented electrical steel material is used to build cores for the switchgear style CTs.
- Cores are manufactured and wound on high speed, programmable core winding machines.
- Core dimensions and weight are checked to ensure that the tight tolerances are met.
- State of the art annealing process is used to remove stresses from the electrical steel.
- Cores are annealed in a highly controlled environment where temperature and time cycles are monitored and recorded digitally using various controllers.
- High quality grain oriented steel and flawless core manufacturing and annealing process help Amran meet stringent accuracy standards with minimim excitation losses.

Core Insulation & Secondary Winding

- Cores are insulated with specially designed core caps to fit various sizes and shapes of the cores.
- For the most demanding relaying applications, cores are insulated with mylar or equivalent tape to ensure smaller builds and larger area.
- The winding on the CT is fully distributed around the insulated core to ensure lowest possible leakage on each tap.
- Production facility includes various toroidal winding machines, fully programmable to achieve maximum winding efficiencies for various turn configurations.



Call Amran to discuss your custom requirements!



Terminal Soldering & Case Assembly

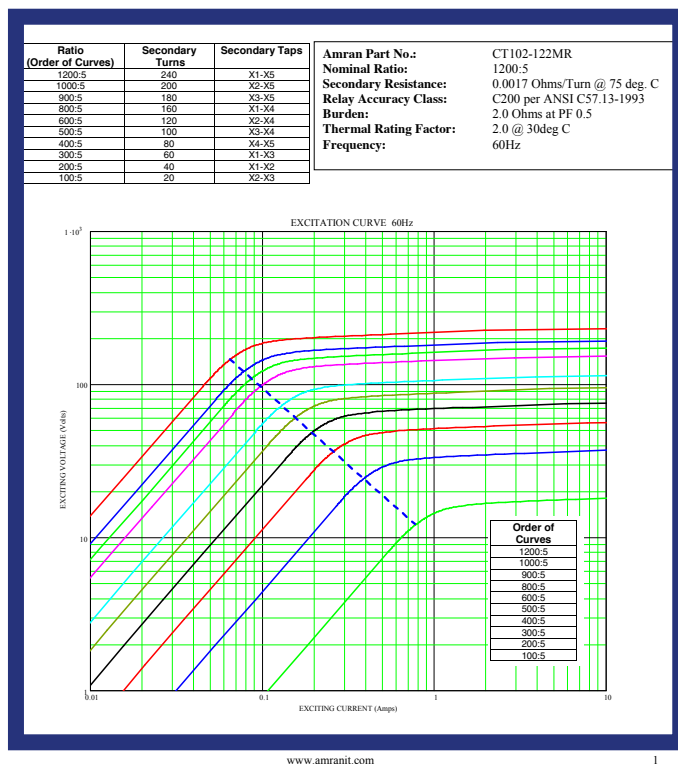
- The magnet wire of the coil is soldered to the brass terminals specifically designed to prevent rotation during installation.
- Coil and Terminal assembly is carefully secured inside the plastic housing to prevent movement.
- Amran ensures superior terminal connection and coil fitment into the plastic housing to ensure long term use in most stringent field conditions.

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Testing

- Each Current Transformer is tested for all the routine test parameters as per IEEE/ANSI C57.13 or relevant test standards.
- Accuracy, Polarity, Di-electric and Turns-ratio tests are standard for every current transformer.
- Excitation curves are published for each design having a relay rating. Amran ensures optimal performance of the CTs by monitoring and testing for compliance to the excitation curves
- Each CT has a unique serial number which traces back to the factory test report. Test reports are available upon request.



Amran offers switchgear style CTs for ANSI and IEC markets. 50 Hz Current Transformers are designed to meet IEC standards.

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The Advantages of Working with Amran

- Switchgear style CTs are specifically designed to fit most common Low and Medium Voltage Switchgears and Breaker panels used in today's market place.
- Standard product range and Custom design options are available
- Highly technical engineering team is fully capable of custom designing CTs to improve performance and/or reduce spacings in Switchgear and Panels. For example – narrow design of CTs, Rectangle CT, etc.
- USA and Over-seas manufacturing capabilities to have maximum benefits on price and lead time. Stocking options available
- Manufacturing facilities are ISO 9001, ISO 14001 and OHSAS 18001 certified.
- Fast turn-around time due to stocking options and domestic manufacturing.
- Cost saving opportunities presented through design/engineering and low over-head manufacturing operations.

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