Instrument Transformer Equipment Corporation

DDC-938 / SRW-911
600 V CLASS
10 KV BIL

Molded Slip-Over Bushing Current Transformers

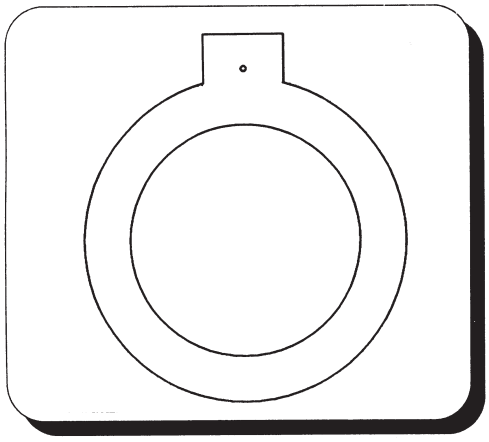
400:5 amperes through 5,000:5 amperes

Application

DDC-938 and **SRW-911** are rugged molded, outdoor, dry type, current transformers suitable for fitting over bushings of power transformers, circuit breakers or potheads. **DDC** or **SRW** is a unique way to add CT capability to the previously installed or in-service main apparatus when accurate monitoring of current flow through high voltage bushings is desired. This retrofit technique of adding monitoring to apparatus offers a large savings over opening equipment to add internal CTs. **DDC** or **SRW** transformers may be supplied in a wide range of ratios and sizes depending on location, burden and accuracy requirements. They may be supplied as single, dual and multi-ratio with unit rating factor of 1.5.

Fabrication

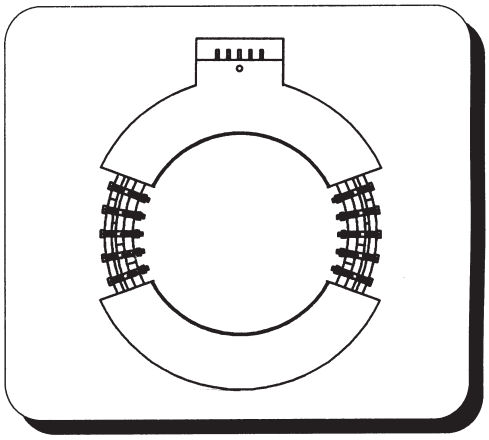
Wound cores of high permeability and low losses are used to optimize performance and physical size of the transformers.



High grade insulation is used to insulate between the winding and the core and between the winding layers. To achieve maximum mechanical and electrical performance, all windings or sections of windings are distributed evenly around the periphery of the core. The transformer is encapsulated which provides an excellent mechanical protective body and long term dielectric performance. The unit has 1/4-20 secondary stud connections in a terminal box with two conduit openings (1" NPT) and a cover-plate for ease of electrical connection.

Accuracy

DDC or **SRW** is available as a relay CT with a single, dual or multi-ratio winding type having full winding relay accuracy of up to C800. Meter accuracy of 0.3 @B0.1..B1.8 is available depending upon ratio.



Testing

Every CT is tested in accordance with IEEE STD C57.13 (Latest rev.) and for accuracy at stages of manufacture. NIST tracable standards are used to validate ratio accuracy performance for all CTs. For relay CT performance is verified by excitation measurements.

Ground Shield

If specified, a ground shield will be on top of the slip-over and fitted with a ground tab. The **DDC** or **SRW** will register (or ignore) a bushing flash-over to the ground shield when it's grounding lead is routed inside (or outside & consult factory) of it's window.

Specification Requirements

To specify a **DDC** or **SRW** you need to have:

1. Minimum ID, Maximum OD, Maximum Height.
2. Ratio / type (single, dual, or multi-ratio.)
3. Accuracy and burden rating i.e.
   Relay: C800 (multi-ratio) or
   Meter: 0.3@B0.1..B1.8
4. Mounting details.
5. Ground shield selection.

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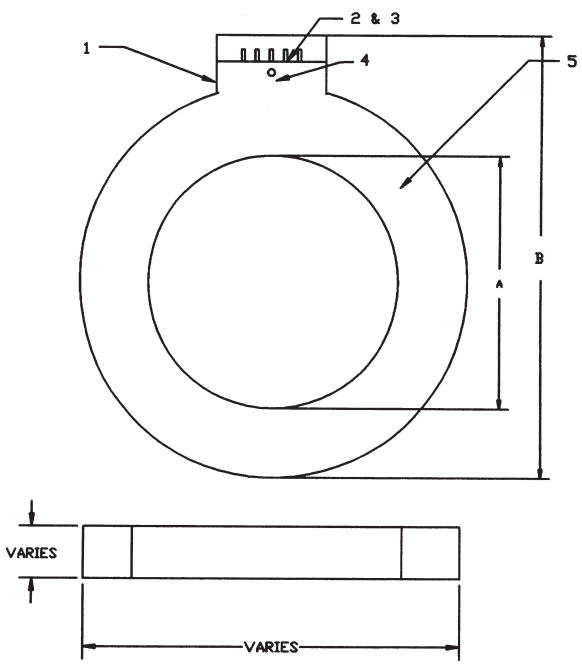
See Appendix A for Typical Curves

Sizes ID Available

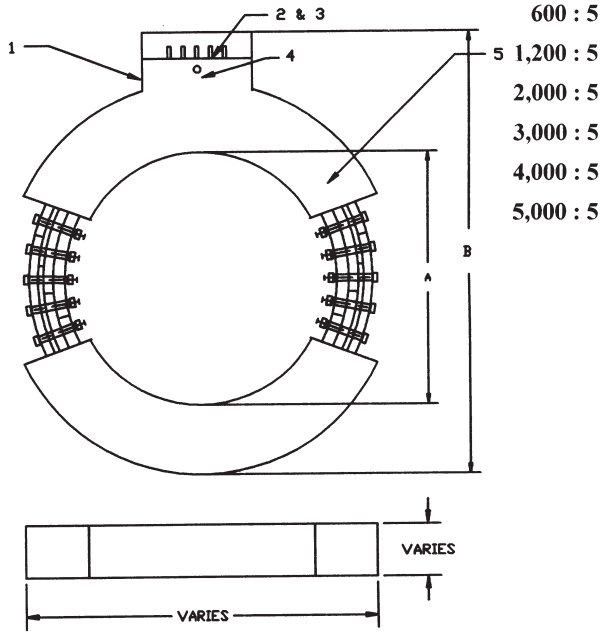
8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 +

Ratios Available

400 : 5
600 : 5
1,200 : 5
2,000 : 5
3,000 : 5
4,000 : 5
5,000 : 5



DDC-938



SRW-911

Note - Transformers are supplied with secondary shorted. Short should be removed only at time of installation by personnel skilled in the art of installing sophisticated electrical equipment. High voltage will occur at the secondary terminals if left open circuited when primary current is flowing.

When provided, a ground shield is set on top of the CT to protect the secondary circuit from high voltage bushing flash-overs. Ground shield and mounting hardware are optional extras and must be ordered at the same time as slip-over. Contact factory for additional details. The **SRW-911** is supplied with a field closure kit to seal out moisture.

Clearances - This retrofit product is best selected by careful inspection of the apparatus and its related bushing drawings to insure mechanical and electrical clearances in keeping with the users normal operating practices.

Description

1. Nameplate.
2. Secondary terminals.
3. Terminal box.
4. Polarity mark.
5. Winding assembly.

600-4 **More sizes and ratios are available. Contact factory for latest information.**

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