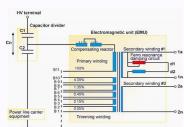
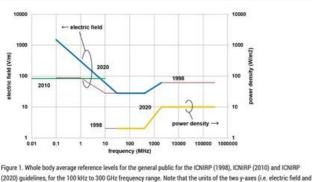
Potential transformer accuracy class definition

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What is rating of transformer. What does class 2 transformer mean. Current transformer accuracy class definition. Transformer rating definition.

Potential transformers (PT) or voltage transformers are instrument transformers used for voltage measurements. They are connected in parallel to the line and operates under the same principle of power transformers. They are connected in parallel to the line and operates under the same principle of power transformers. primary and secondary windings. To understand the principle of operation of electric transformers better, kindly read: Transformer A potential transformer A potential transformer (PT) is a static device used to step down high voltages to measurable levels in order to facilitate measurement and controllability. Low voltages are easy to measure end to be stepped down to the rated voltage of measurement devices for voltage measurements. Also, measurement devices cannot be directly connected to high voltage circuits for measurement. In addition to that, it improves the compatibility of standard measuring devices. The principle of operation of a potential transformer is the same as a normal transformer. It works on the principle of mutual inductance and Faraday's law of electromagnetic induction. The flow of alternating current through a conductor produces a varying magnetic field, when another conductor is brought in contact with this magnetic field, when another conductor is brought in contact with this magnetic field, when another conductor is brought in contact with this magnetic field. linking the second coil and the number of turns. ε =-N dΦ/dt In the case of transformers, Since the rate of change of magnetic flux between the coils is almost the same, the induced voltage depends on the number of turns of the coils is almost the same, the induced voltage depends on the number of turns of the coils is almost the same, the induced voltage depends on the number of turns of the coils. transformer. It can be noted that the construction of a voltage transformer is slightly different from that of a power transformer. It has a core or shell type magnetic circuit(core). The coils are wound over one leg of the core. The primary and secondary windings are insulated from each other. In some medium and high voltage transformers, tertiary windings are also present. The primary winding consists of a large number of turns, whereas the secondary winding consists of only a fewer number of turns. There are three types of potential transformer: Electromagnetic induction type potential transformers are discussed above. Capacitive-coupled Voltage Transformer (CCVT) A capacitive-coupled voltage transformer is a combination of capacitance potential divider, a tuning reactor and an isolation transformer as shown in the below figure. The capacitor potential divider circuit consists of two capacitors C1 and C2 connected across the high voltage line and the ground. C1 is a series connection of several small capacitors. The majority of voltage is dropped across C1. The tuning reactor is used to tune the circuit for the line frequency. In addition to that, a tuning reactor enhances the energy transfer. The isolation transformer isolates the measuring instrument from the resonant circuit. Image credit: GE Grid solutions An optical voltage transformer works on the principle of Kerr effect, by which the light which is reflected from a magnetized surface may change both polarization and reflected intensity. This reflected light is measured optically and converted to an analog signal proportional to the applied voltage. This analog signal can be measured by using suitable instrument. Since there is no magnetic core and windings, these transformers are rarely used because of their complexity and high initial cost. Potential transformer connection Potential transformers come with either two-bushing types can either be connected line-to-line or line-to-ground. Polarity of the winding must be taken in consideration during the connection. The measurement devices can be connected to the secondary of the voltage transformer. A typical connection Burden The external impedance in the secondary circuit in ohms at the specified power factor. It is usually mentioned in VA. It is the maximum amount of load that can be connected to the secondary of the VT without causing a higher error. Accuracy class Accuracy class, according to IEC, is given as 0.2, 0.5 or 1.0 depending on the application when a rated burden of around 1.3-1.5 times the connected burden will give maximum accuracy. Voltage Transformer and current Transformer are known as Instrument Transformer are know the main purpose of the instrument transformer is metering and protection it also isolate the high voltage side from the low voltage side from the l transformer (also called as potential transformer) and in the next article we will discuss about current transformer. The voltage transformer are broadly of two types. These are inductive VT (CVT). Let us first consider the inductive (electromagnetic) Voltave Transformer. We Know the two fundamental laws of the inductive transformer. For an ideal transformer, Vp / Np = Vs / Ns Ip Np = Is Ns Subscripts 'p' and 's' are used for primary and secondary sides of the transformer. The voltage and current transformer. The voltage and current transformer. We will be used for primary and secondary sides of the transformer. the value of secondary voltage which is proportionate to the primary voltage. The voltage transformer (potential transformer is shown in Fig-B. Rp and Lp are primary side resistance and leakage reactance of transformer. Rs and Ls are for the secondary of transformer. Rc and Lm are the core loss component of voltage and phase angle due to these parameters of transformer. In comparison to current transformer the voltage transformers operate at a relatively higher point of the operating curve. In the design process care is taken to limit the exitation current otherwise the increased exciting curve to the error is increased exciting curve. In the design process care is taken to limit the exitation current otherwise the increased exciting curve. voltage) side winding has few turns wound over the magnetic core and the primary side conductor. The secondary side conductor is considerably more than the primary side conductor. The secondary side voltage adopted is usually 100 volt or 110 volt. A sketch of voltage transformer is shown in Fig-C. The porcelain insulator provide required creepage distance for HV terminal from ground. The tank made from galvanized steel filled with oil contains the magnetic core wound with primary and secondary windings of VT. In a voltage transformer the core size is comparatively more so that a low flux is maintained at operating point. The instrument transformers are classified according to the allowed percentage error and burden is specified in voltampere or VA. The Total burden of all the instruments connected to a voltmeter, a watt meter, Integrating meter, a synchroscope and some relays. The sum of the burdens of all these equipments should be less than the rated burden of the VT. More over if the conductor lead used for connecting to these instruments is very long, then the burden of the VT can also be specified by impedance value in Ohm. The voltage transformers has a specified rated transformation ratio. If kn is the rated transformation ratio then voltage error in percentage is given as, Voltage Error = (kn * Vs - Vp) *100 / Vp and Vp are the actual primary voltage. The Accuracy class of voltage transformer (VT & CVT) is defined by the IEC. The table below display the limits specified for the accuracy Classes. Voltage Error (%) Phase Error (Minutes) Application 0.1 +0.1 +5 Precise Measurement 0.2 +0.2 +10 Measurement 0.5 +0.5 +20 Measurement 1.0 +1.0 +40 Measurement 3.0 +3.0 --- Measurement 3P +3.0 +120 Protection 6P +6.0 +240 Protection (Phase angle Error expressed in Minutes. One degree = 60 minutes) The protection VTs are less accurate than the metering VTs. For revenue metering purposes the VT with accuracy class 0.2 may be preferred. For indicating meters less accuracy class like 1.0 may be chosen. For the metering VTs the above accuracy of VT should be valid for voltage range from 5% to Vf times the rated voltage. For the protection VTs the above accuracy of VT should be valid for voltage range from 5% to Vf times the rated voltage. For the metering VTs the above accuracy of VT should be valid for voltage range from 5% to Vf times the rated voltage. earthed system and 1.9 for the system which is not solidly earthed (See IEC standard). For both metering and protection VTs, the above described inductive voltage transformer is usually economical for system voltage rating upto 132 kV. For higher system voltage at Extra High Voltage (EHV) and Ultra High Voltage (UHV), Capacitor Voltage Transformers (CVT) are used. At system voltage above 38 kV the inductive Voltage divider (see figure below) and an inductive Voltage transformer (as described above). The tapped voltage from the last unit of capacitor voltage divider is fed as input to the inductive VT. By using the capacitor voltage level suitable as input to the transformer. As the circuit is capacitive a reactor L is connected in the primary so that the sum of the reactance L and the leakage reactance of the transformer. compensate the capacitive effect at power frequency. The phenomon of ferroresonance considerably influences the design of CVT. Under the conditions of various network disturbances or fault conditions the divider capacitor and inductor in the CVT form a series tuned resonating circuit. In resonance the magnetic circuit may saturate and overheat the transformer. It is necessary to damp out ferroresonance in CVT. So the CVTs are equipped with ferroresonance damping circuit as shown in the figure above.

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