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Relaying Ct Application Guides Western The original need for this guide was precipitated by the recognition of potential relay timing problems arising from the application of digital communications and switching technologies. However, technologies continue to evolve and this guide will be updated to address new problems as they arise.

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Relaying Current Transformer Application White Paper Relay Work Group . July 10, 2014 . 155 North 400 West, Suite 200 . Salt Lake City, Utah 84103-1114

Relaying Current Transformer Application

GET-8402: CT Application Guide for the 489 Generator Management Relay 2 GE Power Management LEAD RESISTANCE If the relay is a great distance from the CT that supplies the currents, heavy gauge CT cables must be used to ensure good performance. The diagram below can be used to select wire size if the lengths of the leads are known.

CT Application Guide - GE Grid Solutions

application of current transformers (CT) for relaying, few written rules exist for selecting ratings. For example, the PSRC document C37.110 “IEEE Guide to the Application of Current Transformers for Relaying Purposes” contains selection rules for differential relay applications. However, it offers no guidance for

Selecting CTs to Optimize Relay Performance

A Practical Guide to CT Saturation Ariana Hargrave, Michael J. Thompson, and Brad Heilman, Schweitzer Engineering Laboratories, Inc. Abstract—Current transformer (CT) saturation, while a fairly common occurrence in protection systems, is not often clearly understood by protective relay engineers. This paper forgoes the

Beyond the Knee Point: A Practical Guide to CT Saturation

Application Guide This guide focuses primarily on application of protective relays for the protection of power transformers, with an emphasis on the most prevalent protection schemes and transformers. Principles are emphasized. Setting procedures are only discussed in a general nature in the material to follow. Refer to specific instruction

Transformer Protection Application Guide

relaying, 392 with phase-comparison pilot relaying, 383 Broken-delta connection, burden calculation, 140 for detecting grounds in ungrounded systems,, 320 for polarizing directionalground relays, 151 of capacitance potential devices, 135, 140 Buchholz relay, 281 Burden, current-transformer, 114 potential transformer, 133

The Art and Science of Protective relaying

9.6.11 Pilot-wire differential relay RADHL 126 9.7 Current transformer requirements for CTs according to other standards 127 9.7.1 Current transformers according to IEC 61869-2, class P, PR 127 9.7.2 Current transformers according to IEC 61869-2 class PX, TPS 127 9.7.3 Current transformers according to ANSI/IEEE 128 10.

Instrument Transformers Application Guide

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The basic formula for a 55°C rise CT is: Rating factor (RF) is a term, which applies to a current transformer. In its application to a current transformer, it is the number representing the amount by which the primary load current may be increased over its nameplate rating without exceeding the allowable temperature rise.

Instrument Transformer Basic Technical Information and ...

Electronics Engineers (IEEE®) Standard (Std.) C57.13.3 – 1983, Guide for the Grounding of Instrument Transformer Secondary Circuits and Cases. ANSI/IEEE C57.13.1-1981, IEEE Guide for Field Testing of Relaying Current Transformers. Applied Protective Relaying, Westinghouse Electric Corporation, 1976.

Operation and Maintenance of Protective Relays and ...

52nd Annual Georgia Tech Protective Relaying Conference, May 1998 Originally presented at the 24th Annual Western Protective Relay Conference, October 1997 . 1 APPLICATION GUIDELINES FOR GROUND FAULT PROTECTION Joe Mooney, P.E., Jackie Peer ... This paper offers a selection and setting guide for ground fault detection on noncompensated

Application Guidelines for Ground Fault Protection

CT's (Id = 0) for all external faults and load flow whereas the total fault current (Id = If) will flow through the relay (R) for all internal faults. If the CT's behaved ideally, the differential system shown in Figure 2 would be very easy to implement using a simple overcurrent type of relay. Unfortunately, the CT's may saturate and thus

Bus Differential Protection - GE Grid Solutions

This results in (1): (R st + R p) ≥ (R ct + 2 R L) × I ssc / Ir where: I ssc = maximum through current observed at the CT secondary,; I r = relay secondary setting current.; R st may vary between a few ohms and a few hundred ohms (exceptionally it may be greater than 1000 ohms).; For the relay to operate properly at I r if a fault occurs in the area, the knee point voltage V k must be ...

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Standard IEEE CT Burdens (5 Amp) (Per IEEE Std. C57.13-1993) Application Burden Designation Impedance (Ohms) VA @ 5 amps Power Factor Relaying B1 1 25 0.5 B2 2 50 0.5 B4 4 100 0.5 B8 8 200 0.5 IEEE CT Relay Accuracy

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For these applications a split core CT is sometimes used. Performance of split core CTs may be less than that of solid core CTs. Incorrect installation shown in left image and correct installation shown on right. FIGURE 14 CT characteristics are normally specified at a single frequency such as 50 or 60 Hz.

CT Selection Guide - Littelfuse

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