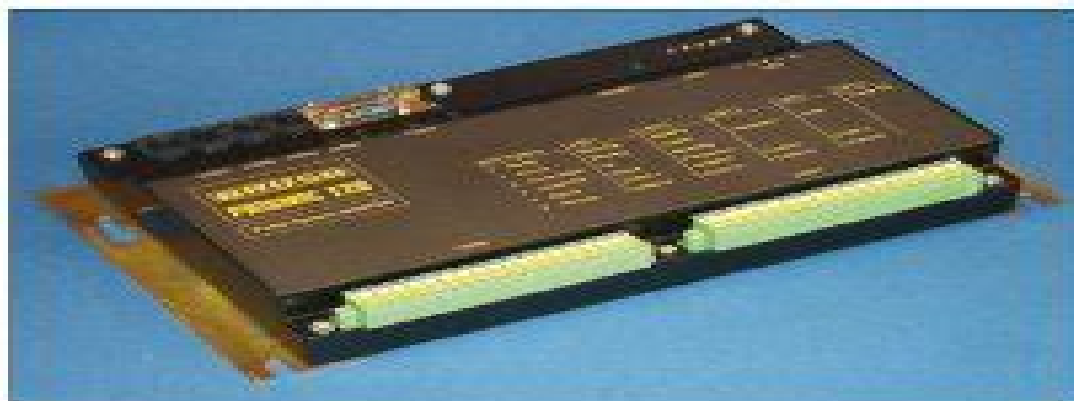




PRISMIC[®] T20

Power System Stabilizer

PRODUCT SPECIFICATION



Introduction

Power system studies and many utility regulations require additional excitation system control functionality to ensure that generators contribute to power system stability.

This functionality can be provided by power system stabilizers (PSS) such as the BRUSH PRISMIC[®] T20.

The PRISMIC[®] T20 is a microprocessor based dual-input power system stabilizer according to the IEEE 421.5 PSS2B model.

The stabilizer monitors generator terminal volts and current, from which the operating variables of speed and electrical power are derived.

The output of the T20 provides a bias to the reference signal in the AVR. This provides damping of power system oscillations by adjusting the generator field current.

The T20 is a compact unit with a steel enclosure designed for securing to a cubicle mounting plate. It can be used as a retrofit unit as well as being incorporated into new systems.

The T20 is suitable for connection to most automatic voltage regulators for synchronous generators, with either brushless or static excitation systems. It offers easy connection to any analogue or digital AVR that has the capability to accept a bipolar DC signal from a PSS.

It is also possible to transfer the bias signal of the PSS to an AVR via a CAN-bus interface.

The user friendly, password protected, Windows based human machine interface (HMI) software, accessed via an RS232 port, ensures the T20 can be fully commissioned in any location.

Power System Instability

Power system oscillations typically range from 0.1 to 3.0 Hz in frequency and are commonly characterized as inter-area, intra-unit or local modes of oscillation.

Power fluctuations are directly related to the rotor angle oscillations of a synchronous generator. Power system stabilizers act on the excitation controller or AVR to adjust the generator excitation to help reduce these rotor angle oscillations.

Key Features

- Digital design.
- Uses integral of accelerating power.
- Based upon IEEE 421.5 PSS2B model.
- Signal conditioning to minimize erroneous bias signal to the AVR.
- Uses frequency biased generator resistance as speed signal.
- Configurable gain setting.
- Contains 3 flushing stages.
- Isolated PSS output with clamp for protection.
- Contains diagnostic and monitoring circuits - indications available remotely via HMI, and locally via LEDs on the unit.
- Analogue output port and CAN-bus interface to AVR.
- PSS can be disabled via hardware and software.
- Windows HMI commissioning software.
- Data recording facility with automatic and manual triggers.
- 50 and 60 Hz operation.
- IEC compliant.
- Suitable for brushless and static excitation systems.

Brush Prismic A10 Manual

L Darling-Hammond



Brush Prismic A10 Manual:

Whispering the Secrets of Language: An Emotional Journey through **Brush Prismic A10 Manual**

In a digitally-driven world wherever displays reign great and immediate transmission drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words frequently get unheard. Yet, set within the pages of **Brush Prismic A10 Manual** a captivating fictional treasure pulsating with natural emotions, lies a fantastic journey waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the fabric of each and every word. Within the psychological depths with this emotional evaluation, we will embark upon a heartfelt exploration of the book's key subjects, dissect its charming publishing model, and yield to the strong resonance it evokes heavy within the recesses of readers' hearts.

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