

Protection Solutions

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TPI Selector Switch

The Problem

The tap position indicator (TPI) switch, found on many old power transformer on load tap changers, requires a high wetting current to provide reliable operation. Even at high current levels the TPI switch may go open circuit causing loss of control and out of step alarms. This problem is made even worse when a modern voltage transducer is fitted due to limitations in the current source used to power to the resistor string.

The Solution

RMS has developed a custom rotary switch mechanism to replace old TPI switches. Gold plated low contact resistance switches are sealed in a specially machined case with connection via plug in Phoenix screw terminals. Two rows of contacts are provided for separate out of step and tap position indication. A different circuit board is designed for each tap changer based on the number of taps and angle between tap positions. Mounting brackets and drive shaft adaptors to suit specific tap changers completes the upgrade kit.

