Transformer Protection and Control Relay

RET615

**Description:**

RET615 is a dedicated transformer protection and control relay for power transformers, unit and step-up transformers including power generator-transformer blocks in utility and industry power distribution systems. RET615 is a member of ABB’s Relion® product family and part of its 615 protection and control product series. The 615 series relays are characterized by their compactness and withdrawable-unit design. Re-engineered from the ground up, the 615 series has been designed to unleash the full potential of the IEC 61850 standard for communication and interoperability between substation automation devices.

**Product benefits:**

* Compact and versatile solution for utility and industrial power distribution systems with integration of protection, control, monitoring and supervision in one relay
* Extensive range of protection and control functionality for two-winding power transformers, including advanced and fast differential protection with high inrush stability
* Ready-made standard configurations – matching the most commonly employed vector groups – for fast and easy setup with tailoring capabilities
* Withdrawable plug-in unit for swift installation and testing
* Large graphical display showing customizable SLDs, accessible either locally or through an easy-to-use web-browser-based HMI
* Extensive life-cycle services

**Product features:**

* Transformer differential with voltage protection and measurement functionality
* Supports various neutral earthing options, matching either high-impedance or numerically low-impedance restricted earth-fault principles
* Optional arc protection and high-speed outputs
* Supports IEC 61850 Editions 1 and 2, including HSR and PRP, GOOSE messaging and IEC 61850-9-2 LE for less wiring and supervised communication
* IEEE 1588 V2 for high-accuracy time synchronization and maximum benefit of substation-level Ethernet communication
* Supports Modbus, DNP3 and IEC 60870-5-103 communication protocols