

# **The box transformer switch does not respond when the energy storage is pressed**

Do Transformers store undesired energy?

In practice, all transformers do store some undesired energy: Leakage inductance represents energy stored in the non-magnetic regions between windings, caused by imperfect flux coupling. In the equivalent electrical circuit, leakage inductance is in series with the windings, and the stored energy is proportional to load current squared.

Why does a transformer have a sudden pressure relay?

Some transformers are subject to sudden pressure relay operation due to mechanical forces on the transformer during system faults when no electrical fault is present inside the transformer tank. This can be due to winding shift and subsequent oil movement, or it might be due to the location of the SPR on the tank wall.

What happens when a transformer turns off?

When the switch turns off, the transformer magnetizing current causes the voltage to backswing, usually into a clamp. The reverse voltage causes the magnetizing current to decrease back to zero, from whence it started. The reverse volt-seconds will exactly equal the volt-seconds when the switch was ON.

What causes a transformer relay to fail?

The root cause of the failure was that the valve on which the relay was mounted had been closed during maintenance. Heat from the sun caused oil pressure to increase to a damaging level because the oil in the relay could not flow back to the transformer tank.

Why is my transformer relay tripping?

Heat from the sun caused oil pressure to increase to a damaging level because the oil in the relay could not flow back to the transformer tank. At least one working group member's company has experienced a similar case of relay damage, discovered during maintenance, which would have prevented the relay from tripping.

What causes a power transformer to bubble?

Go back to Contents Table ? The energy released from electrical discharges in the oil, causes the oil to decompose into hydrocarbon gases. Normally these gases are absorbed into the oil, but if the activity is severe then these gases can form bubbles. Further Reading - Power transformer testing procedures and schemes Go back to Contents Table ?

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