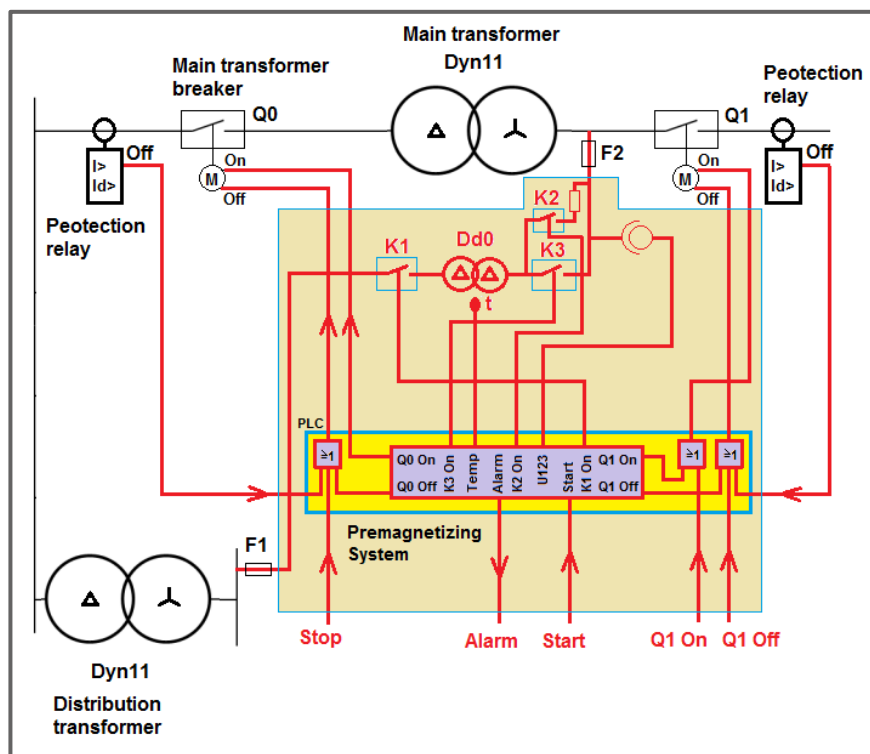


PRE-MAGNETIZATION

Compact main transformer premagnetizing system

Transformers typically are taken an inrush current pulse of approximately 30 times the nominal current. This reduces the voltage in the grid and stresses the structures. The inrush pulse contains a DC component, during which the transformer is magnetically unbalanced and, in addition to acoustic noise, produces a strong magnetic field around it. The start-up can be radically softened by a pre-magnetization system, which can also be connected to the secondary of the transformer if the primary is medium voltage.



- Limits the main transformer inrush current to <math><1x</math> rated current
- Pre-magnetization reduces voltage dips and sags in the electrical system
- Pre-magnetization reduces the transformer's magnetic transient to the environment during the starting (EMC)
- Pre-magnetization reduces mechanical forces on the transformer, cables, and switchgear
- Pre-magnetization reduces the load on the breaker and extends their service life
- Pre-magnetization enables problem-free switching even in weak grid.
- The system's programmable logic cancels or interrupts the start sequence if everything is not in order.
- The system's programmable logic prevents the starter from overheating.
- Compact and complete solution for all types of power transformers:
 - Large low-voltage transformers
 - Medium-voltage transformers
 - Rectifier and thyristor drives
 - Data centers and backup power systems

