Triplex Indoor-Powercenter™

COOPER POWER SERIES

Remove the headaches with installation and save money during operations versus using dry-type transformers

Eaton's Cooper Power series Triplex Indoor-Powercenter™ (IPC) offers an energy efficient and low-noise alternative to dry-type transformers when challenged with space constrained entry points.

System problem

Installation and removal of either dry-type or liquid-filled transformers can be difficult when encountering a size and weight constrained entry. Eaton's Cooper Power series Triplex IPC offers a modular designed efficient liquid-filled transformer that can be installed even when access is limited by a freight elevator or doorway.

Construction

The Triplex IPC uses single-phase liquid-filled transformers in a ganged assembly. It's available with a variety of standard and optional features suited to meet the challenges of indoor applications. The core and coil construction utilizes the same proven methods as the conventional threephase substation assemblies. Castors can also be added to further facilitate movement and to reduce the transmission of vibrations to the surrounding structures.

Features and benefits

Modular construction of Triplex IPC transformers facilitates installation in limited entry conditions. Downtime can be reduced by stocking a spare single-phase transformer for emergency situations. Flawless fire safety of Triplex IPC is attributed to the use of Envirotemp™ FR3™ fluid, a less-flammable and bio-degradable dielectric fluid. Integrated switching and protection schemes are available with triplex designs to withstand operational challenges.

Product specification

"Triplex IPC shall be a three-phase transformer assembly consisting of three single-phase Envirotemp™ FR3™ fluid-filled transformers connected into one complete assembly built according to applicable D.O.E. (Department of Energy), ANSI/IEEE, FM and NEMA Standards and customer supplied specifications. The Triplex IPC shall be constructed in the field by others and constructed with single-phase transformers and partially assembled factory prepackaged modules." For more details, please consult our website Eaton.com/cooperpowerseries for the complete guide specification.

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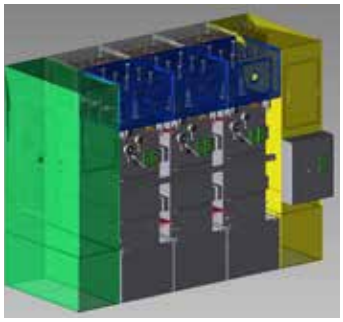
Eaton's Cooper Power series Triplex Indoor-Powercenter (IPC) design utilizes liquid-filled single-phase transformers in a ganged setup to distribute reliable and efficient three-phase power.

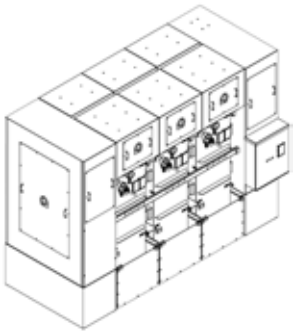
Benefits over comparable dry-type

- 35% reduction in energy costs
- 20% reduction in HVAC costs
- 50% less noise
- 35-60% higher electrical withstand
- Higher overload capacity
- Protection against internal contamination
- Energized periodic maintenance
- Transformer health monitoring capabilities

Product scope

- Base ratings of 750, 1000, 1500, 2000, 2500 kVA
- Three phase, 50 or 60 Hz substation class transformers
- Primary voltage through 15 kV
- Secondary voltage through 600 V
- Filled with Envirotemp™ FR3™ fluid
- Temperature rise 55 °C, 55 °C-65 °C, 65 °C, 55 °C-75°C,
- 75 °C (optional)
- Factory mutual FM™ approved
- Meets or exceeds major electrical standards
- Substation accessories portfolio:
  - Air terminal chambers
  - Control boxes
  - Gauges (with or without contacts)
  - Rapid rise relays
  - Removable radiators
  - Containment pan
  - Removable castors
  - Infrared viewing windows
  - Air insulated bus for interconnections





Eaton utilizes 3-D modeling to ensure accuracy of mating components for field assembly.

Eaton's Cooper Power series Triplex Indoor-Powercenter tested at 50.6dB (ONAN)/57.8dB (ONAF) - On-site assembly.

Contact your local representative or visit Eaton.com/cooperpowerseries

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