



Neutral Grounding & Bypass Switchgear

- Metal enclosed solution for isolation of neutral grounding reactors / resistors
- Provision of optional bypass switch for flexibility of system operation with solid earthing
- Outdoor type enclosures
- Sheet steel fabricated construction
- Type tested design
- Manual operation and easy maintenance
- Engineered for specific needs



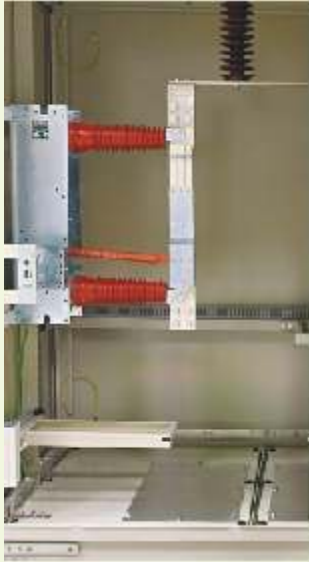
Application

Power generation and distribution utilities use reactors and resistors to earth the neutral of transformers and generators, thus limiting ground fault current.

An isolation device is necessary between equipment neutral and neutral earthing reactors for maintenance reasons.

In addition an optional bypass switch is also required to bypass the reactor and solidly earth the neutral of transformers or generators.

For safe operation of these switches, electro-mechanical interlocking is necessary to ensure these isolation and bypass switches are not operated if the transformer or generators are in energized condition.



Technical Details

Rated voltage	3.6kV to 36kV
Rated Current	≤ 630A
Rated Frequency	50/60 Hz
Power frequency withstand voltage	10kVrms to 95kVrms
Lightning Impulse voltage	40kVpeak to 200kVpeak
Short time current withstand capacity	≤ 31.5kA for 3sec
Degree of protection for enclosure	IP55
Design ambient temperature	55°C
Applicable standard	IEC 60694, IEC 62271-200 & 102



Quality assurance: Power Economy assures quality of all its product and services. Power Economy business process is certified for ISO:9001-2000

Construction: Enclosures are constructed using angle/channel sections for framework and sheet steel fabricated covers.

The fabricated frames are hot dipped galvanized and powder coated.

Covers are made-up of 2/3mm sheet steel, which are fabricated using CNC and NC machines. These covers are then powder coated for surface protection.

The enclosure includes a suitable roof design to provide sun shading and run off of rainwater.



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