

Isolated Phase Bus

Directly Connecting to Power Generation

DESIGN

Powell serves the electric utilities and the cogeneration industries with a complete range of products, systems and services for direct connection of large power generators to transformers and other large apparatus. The inherent design features built into Powell products provide a high degree of reliability and maximum protection for the generator and for other connected equipment. Our Isolated Phase Bus is primarily used as generator main leads extending to GSU transformers and station service/auxiliary transformers. Industries served include nuclear, fossil fuels, co-gen and combined cycle plants.

RATINGS

- Current: 600 through 42,000 amps
- Voltage: Up to 38,000 volts
- Insulation Levels: 110 through 150 kV (BIL)
- Momentary Current: through 900,000 amps asymmetrical

FEATURES AND BENEFITS

- Virtually eliminates phase-to-phase faults
- Reduced heating effects to other equipment in the vicinity of Iso Phase Bus
- Can withstand very high short circuit levels
- Reduced watt losses
- Weather tight construction
- Longer sections provide lower overall installation costs

ACCESSORIES

Designers of new and modernized generating stations select the broad scope of isolated phase bus accessories offered by Powell to meet the technology challenges of today's power market. In addition, existing stations can be more easily modernized and upgraded at lower overall cost through the selection of Powell accessories. This unique range of products includes: potential transformer and surge protection cubicles, disconnect switches, forced-air cooling equipment and temperature monitoring devices.

Contamination Protection

Single Insulator Support Design

ANSI C37.23 Compliance

Reduced Installation Time

Aluminum Construction

Custom Designed Terminations

Engineering Studies

Field Service and Replacement Parts






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