

High-voltage busbar circuit breaker



Overview

There are several common configurations, each with its own advantages and limitations:

- 1□ Single Busbar Simple and low-cost, but a fault on the bus will trip the entire station. □□ Typically used at: 33 – 66 – 132 kV.
- 2□ Single Busbar with Sectionalizer Similar to the single. PASS M0 belongs to Hitachi Energy's innovative high-voltage hybrid switchgear family, PASS (Plug and Switch System). PASS encloses all functions of a complete switchgear bay in a single module. The hybrid design makes use of traditional air-insulated busbars to connect with other equipment in the. To connect various high voltage (HV) components to the HV system, TE also delivers a wide variety of busbars. Busbars provide a safe HV connection on shorter distances. Especially in the area near the. Differential protection provides high speed fault-clearing necessary for critical busbars such as transmission busbars, or distribution busbars where arc flash hazards are a concern. Typical busbar applications include switchgear, panel boards. Even if distance protection is used for all utility feeders, the busbar will be located in the second protection zone of all the distance protections, so a bus short circuit will be slowly cleared, and the resultant voltage dip may not be permissible. If a CT saturates, then a false differential current will be derived by the relay.



Article Content

Hybrid Switchgear PASS M0

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