

Terasaki Project Reference: Telehouse Docklands

Client:
Telehouse U.K.

Project:
Telehouse Data Centre

Location:
London Docklands

"A purpose-built data centre is developed specifically to ensure all power demands are met. The equipment to protect the technology is already in place and with an advanced protection system, a data centre like Telehouse can help customers protect their data power supply properly.

We need a protection supplier who understands large power systems with severe fault levels and can prove their products will be reliable and maintainable for the lifetime of the data centre. Terasaki are this kind of supplier. We have their circuit breakers in our Docklands data centres where fault levels can be in excess of seventy-thousand amps.

Terasaki provide special protection relays on their ACBs which have selectable inverse, very inverse and extremely inverse tripping characteristics. These will minimise system outage in the event of an electrical fault. Terasaki ACBs and MCCBs are essential for the protection of our power supply systems".

- Bob Harris, Technical Services Director.

Scope:

System fault level: 80kA

199 withdrawable TemPower 2 ACBs: "AGR-R" protection relays with selectable standard, very and extremely inverse tripping characteristics were used on critical circuits.

423 TemBreak 2 MCCBs, pluggable

Telehouse Facts:

- Four interlinked datacentres in the heart of London's Docklands
- Electrical power capacity of 20MVA from four redundant high voltage utility feeds
- Electrical distribution system protected by Terasaki ACBs and MCCBs
- Sites can be powered by standby generators for at least 24 hours
- Twin simultaneous power supplies are available for clients all the times



Terasaki ACBs protecting the data load at Telehouse Docklands



Telehouse Docklands data centre



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