

# Fault Types

## Electrical Engineering

The shunt and series faults a network sees, in rough order of frequency.

*Frequency and severity run in opposite directions.*

| Fault                | How often    | Character              |
|----------------------|--------------|------------------------|
| Single line to earth | Most common  | Often transient        |
| Line to line         | Less common  | Higher current         |
| Double line to earth | Uncommon     | Severe unbalance       |
| Three-phase          | Rare         | Usually the worst case |
| Open conductor       | Series fault | Unbalance, low current |

Educational reference. Fault studies and protection settings are regulated engineering work requiring qualified supervision.