

Designed to Empower Engineers

BE1-FLEX: Multi-Breaker Management

Is Your Protection Strategy Keeping Pace with Your Power System?

Power systems aren't what they used to be.

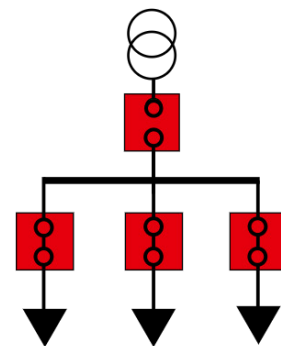
Historically, power systems were radial — electricity flowed from a central source in one path to end users.

That assumption made protection straightforward. But today? As renewables, micro grids, energy storage, and other non-source-side energy sources are implemented into power systems, the requirements to protect and control the system grow.

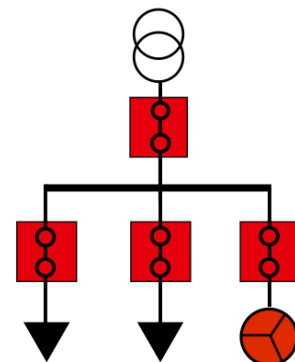
Non-radial power systems supply power from multiple paths or sources — making it common to now require coordinated controls at multiple points in the system, simultaneously.

That's a lot to ask of a traditional relay setup. The BE1-FLEX was built for exactly this challenge.

Radial System



Non Radial System



Example Part Number:

BE1-FLEX-K-T3T3X6C5-W9-E5-1N0-E01N-00

In this example configuration, one FLEX is used to protect and control four breakers, also providing auto-synchronization of the backup generator across the generator and main breaker if a closed transition is desired.

The configured style for this application includes:

- 8 Voltage Channels
- 15 Current Channels
- 8 Contact Sense Inputs
- 15 Outputs
- Enhanced Protection Package

One Device, Any Configuration

The BE1-FLEX is designed to manage multiple breakers in a cost-effective and intuitive device.

The secret is its "One More Function" architecture — built on Instances.

The BE1-FLEX incorporates "one more" of any function through instances. Need to control one breaker? Add one breaker instance. Need two? Simply click "Add Function," and another breaker instance is created. A single FLEX can include up to thirty breaker instances.

The same logic applies to protection and control functions — add differential elements (87), auto-synchronizer (25A), and more — all within a single chassis.