A better approach

Intelligent molded case circuit breakers with power and energy meters built into their electronic trip units can be integrated into PDUs, enabling fewer components, a smaller footprint and a simpler design. Embedded communications within the circuit breaker enables powerful data-driven insights to keep critical data center power systems connected and users informed.

The challenge

In order to monitor power, each PDU sub-feed circuit breaker requires three current transducers (CTs), and voltage taps wired to a central control board. Although CTs and voltage taps provide critical system data, they can increase:

- Enclosure footprint
- Commissioning time
- Manufacturing time
- Installation cost

A simplified, more compact PDU that reduces components, eases installation and provides expansive electrical system intelligence to enable:

- Real-time metering and monitoring
- Additional insights into circuit breaker health
- Reduced equipment costs
- Easier testing
- Simplified wiring
- Availability of advanced safety features

INCREASE INTELLIGENCE
REDUCE FOOTPRINT

IoT-enabled circuit breakers transform data center power distribution—saving space, time and energy costs

Anatomy of a traditional data center power distribution unit (PDU)

The results

Learn more at Eaton.com/PowerDefense