

The intelligent control device does not store energy

What is an intelligent electronic device (IED)?

In the electric power industry, an intelligent electronic device (IED) is an integrated microprocessor-based controller of power system equipment, such as circuit breakers, transformers and capacitor banks.

Who uses intelligent motor control centers?

Engineers, original equipment manufacturers (OEMs), contractors, and facility and maintenance managers use intelligent motor control centers to accelerate project timelines, reduce costs, enhance personnel safety, and gain valuable insight into plant operations.

Why are motor starter units becoming smarter?

Recently, with the development of Intelligent Electronic Devices (IEDs), motor starter units are becoming "smarter" allowing the integration of new technology and permitting devices to communicate with each other and through the application of logic within the control circuit, letting personnel remotely monitor and control manufacturing processes.

What is an intelligent MCC?

Intelligent MCCs allow you to easily access data, make more informed decisions, and control the MCC to optimize facility, process and power system performance. Intelligent MCCs are characterized by open, secure communications and interoperability with building and facility systems to:

What is a programmable logic controller (PLC)?

In systems equipped with programmable logic controllers (PLCs), IEDs provide input data for the PLC's control algorithms. These algorithms use this data to control various processes within the substation, such as circuit breaker operation, transformer tap changing, and capacitor bank switching.

What is a Power Management System (PMS)?

In power management systems, IEDs collect real-time data on electrical parameters such as voltage, current, frequency, and power factor, and transmit this data to the control center. This information is crucial for various applications, including load shedding, peak demand management, and energy optimization strategies.

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Automated buildings are often called "smart buildings" or "intelligent buildings" because they include the controls to operate their systems optimally with little or no intervention from ...

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