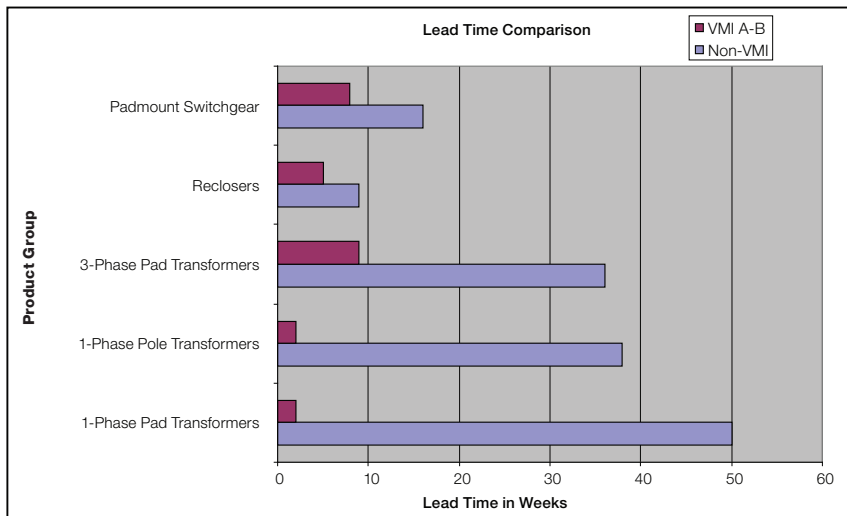


The ultimate goal is supply chain excellence, as defined by service, speed and cost. Delivering the best service at the point of consumption, in the least amount of time, at the lowest total cost, is the key to success. The result is a supply chain that has an automated, timely flow of information triggering replenishment activities that anticipate demand accurately. Cooper Power Systems' VMI program delivers tangible results throughout the supply chain. ■

Figure 2. (RIGHT) Lead time comparison.



NEW Version of iXP-420 Transformer Differential Relay Available

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Since its introduction in 2002, the iXP-420 differential relay has proven itself to be an extremely versatile member of the Idea™ relay family. Officially classified as a transformer differential relay, the relay has proven well-suited for other applications that can take advantage of the iXP-420's functions, including restricted earth fault protection, bus differential protection, bus backup protection, multi-feeder frequency-based load shedding and restoration schemes, and over/under voltage protection. Enhancing these functions is the relay's ability to provide independent control for both high- and low-side circuit breakers.

A partial list of those functions that have made the iXP-420 so popular include:

- Dual-slope differential protection element (87-1)
- High set differential element (87-2) for fast response to large magnitude internal faults
- 2nd and 5th harmonic blocking
- Restricted earth fault (87N)

- Ground overcurrent with separate CT input for low-side winding (50N/51N)
- Overcurrent protection (50/51, 50R/51R, 50Q/51Q) for each winding
- Over-excitation (V/Hz) protection (24)
- Under/over-voltage protection (27/59, 27P, 59P, 59Q, 59N)
- Multiple-Step over/under frequency elements with voltage and current supervision (81)
- Power quality, metering, control and communications capabilities address the needs of automation, EMS and SCADA systems

New Enhancements

The updated release of the iXP-420 is designed to run in the ProView™ 4.0.1 application software. Software enhancements include:

- Adjustable Oscillographic Event and Pre-trigger Lengths
- Data Profiler to provide for tracking of transformer power loading trends
- Through-fault logic counts and

- accumulates statistical data for through-fault events
- Additional inverse time overcurrent curves
- COMTRADE file export
- Front panel access to the most recent 25 SOE records
- Custom front LCD messages may be programmed via the Idea Workbench™

Existing relays may be updated with a simple software download. New iXP-420 relays are now also available with optional dual 10/100MBPS Ethernet ports supporting both DNP 3.0 and ProView over TCP/IP. ■

Recently Introduced Idea Relays

- iCP-191 Fuseless Capacitor String-based Protection relay
- iCP-630 Ungrounded Capacitor Bank Protection relay
- iCP-440 Split Wye Capacitor Bank Protection relay

