

# THE Electrical Connection

April 2010

Columbus • Defiance • Findlay  
Hebron • Mansfield • Toledo

**McNAUGHTON-McKAY**  
ELECTRIC COMPANY

Serving The Ohio Electrical Community...  
Celebrating 100 Years of Customer Service!

## E3 Plus with Voltage Protection & Monitoring

The Allen-Bradley® Bulletin 193-EC5 from Rockwell Automation features voltage protection and energy monitoring. Part of the E3 Plus family, this new overload relay combines current and voltage protection with enhanced power monitoring and diagnostic capabilities, to help you improve energy efficiency and safeguard critical electric motor loads.



The addition of voltage protection helps you protect your motors against voltage issues such as under voltage, voltage unbalance, phase loss, frequency, and phase rotation before the contact coil is energized. Also, while your motor is powering a load, the EC5 is monitoring and protecting for excessive real, reactive and apparent powers, and power factor.

Including the EC5 in your energy management system helps speed troubleshooting, minimize downtime, and reduce energy costs by providing voltage, current, power, energy, and power quality information at the motor level. When used in conjunction with RSEnergyMetrix®, the EC5 can help identify motors contributing to the utility bill to decrease energy costs. The EC5 can also be used to assist in activity based cost accounting and to verify energy reduction initiatives.

## EPR Kits Make Repairing Conduit as Easy as 1-2-3!

These clever and innovative conduit repair kits from IPEX are the first total repair systems for broken and damaged PVC conduit. They offer fast and easy repairs for damaged conduit caused by actions such as earth excavation, horizontal and core drilling.



With unique interlocking joints, the EPR Kits' two half shell bell by bell pieces simply close around the installed wire and cable. Using standard PVC solvent cement, EPR Kits are quickly and easily assembled and connected, restoring the conduit to its original form. And, unlike other conduit repair systems, EPR Kits are capable of repairing various lengths and types of pipe quickly and accurately, saving you time and money.

EPR Kits, available in 1 1/4" - 6" sizes, are manufactured of high-impact and non-conductive PVC, ensuring a life long quality repair for your system. In addition, every item is hand inspected for defects prior to individual package assembly.

## Upcoming Training

April 20 – Ethernet Seminar – Toledo

April 28 & 29 – Integrated Architecture & Connected Components on Tour – Columbus

May 3 – Connected Components on Tour – Mansfield

May 4 & 5 – Connected Components on Tour – Hebron

May 5 – RAOTM – Akron

May 19 & 20 - RAOTM - Cincinnati

For more information  
please visit our website  
or contact  
Heather Oehlers at  
419-422-2984.



## FUSION G7™ Global Wall-Mount Enclosures Set New Flexibility and Performance Standards

The new FUSION G7™ Wall-Mount Enclosure system from Hoffman takes internal component mounting versatility and rugged IP66 protection to the next level.

FUSION G7 expands the traditional limits of capacity and creates the most efficient and cost-competitive enclosure footprint available. While excelling at basic enclosure functionality and protection, FUSION G7 also features an advanced, scalable design with a host of internal component mounting provisions and options to create an increased internal mounting area within the same, or smaller, footprint than a traditional wall-mount enclosure. The optional internal front and rear grid system provides rigidity and functionality while serving as the backbone attachment system for the wide range of flexible internal mounting accessories.

## LQM Quantum® Thermoplastic

The Lithonia LQM Exit Signs are ideal for applications requiring attractive, quick- installation and low energy consumption. They have a precision-molded thermoplastic housing that is impact and scratch-resistant, corrosion proof and UV-stabilized to resist discoloration.

Its innovative snap-together design allows installation in less than three minutes. The long-life LEDs feature very low energy consumption and have a life rating of up to 10 years (consumes less than one watt of energy). Lithonia's fully assembled single-face exit sign comes equipped with an optional extra faceplate for easy field conversion to a double-face standard exit sign. The replaceable chevron directional indicator knockouts make it easy to choose which direction your signs face. To ensure that your exit signs work when needed there is an automatic recharge after discharge feature. The conveniently located test switch and status indicator provide visual and manual means of monitoring system operation. The self-diagnostic emergency signs comply with NFPA Life Safety Code® and automatically test the battery once a month for five minutes and once every six months for 30 minutes.



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