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INDUSTRIAL
 CONTROLS

Motor Control Center



IER

**ELECTRICAL EQUIPMENT
 AND CONTROLS**



CUSTOM
 DESIGN



MOTOR
 CONTROLS



POWER
 DISTRIBUTION



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MOTOR CONTROL CENTERS

ARE THE MOST FLEXIBLE

DISTRIBUTION SYSTEMS AVAILABLE TODAY, OFFERING BOTH THE CAPABILITIES FOR POWER DISTRIBUTION SYSTEMS AND MOTOR CONTROL. IER IS A KEY PARTNER OFFERING A FULL RANGE OF SERVICE TO MEET YOUR MCC NEEDS.



Product Range

| | | | |
|--|----------|--|--|
| Siemens Allis-Chalmers Furnas ITE Gould | | Eaton Cutler-Hammer Westinghouse | |
| GE | Square D | Moeller | |

Technical Specification

| | |
|-----------------------|----------------------|
| Voltage (V): | 120 – 600 (50/60 Hz) |
| Motor (HP): | ½ – 800 |
| Feeder (A): | 15 – 1,200 |
| Enclosure: | NEMA 1, 1A, and 3R |
| Incoming: | MLO, Fused, Breaker |
| Height: | 90" Standard |
| Horizontal Buss (A): | 600 – 3,200 |
| Interrupt Rating (A): | Up to 100k AIC |
| Listed: | NEMA, CSA C22.2 |

Quick Ship

- Verticals in stock
- Buckets in stock
- Factory sections in stock
- Add-on section in stock

Non-Standard

- 3rd Party Components
- Transitions & Corner Sections
- Class II Wiring
- Custom Colors
- VFD & Soft Starts

Custom

- Skid Mount
- Non-Walk in Enclosures
- Nema 3R Enclosures
- Stainless Steel Enclosures
- Smart Motor Control integration
- Custom integration

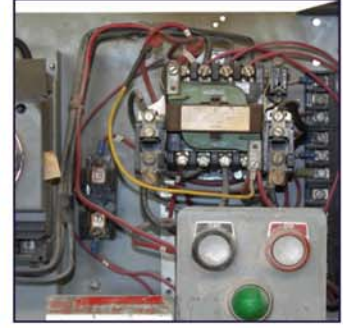
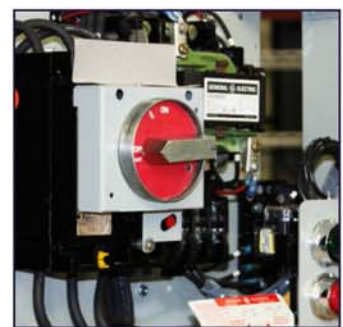


RETROFIT BUCKETS

RETROFITTING AN MCC CAN BE A GREAT OPTION FOR CUSTOMERS LOOKING TO EXTEND THE LIFE OF THEIR EXISTING MCCS WITHOUT EXPERIENCING THE DOWNTIME AND GREAT EXPENSE OF REPLACING THE ENTIRE SYSTEM AT ONE TIME.

Bucket Retrofit: Work Performed

- All electrical components removed
- Bucket is stripped and re-powder coated
- New Components installed
 - Breaker
 - Motor starter (Contactor & Overload)
 - Pilot Devices, Controls & Wiring
 - CPT & Fuse Block
 - Buckets Stabs & Power Wiring
- Testing and Inspection
 - Controls powered and tested
 - Control circuit inspection and review



UPGRADED BUCKETS

UPGRADING MCC'S EXTENDS THE FUNCTIONALITY AND PERFORMANCE OF THE MCC FROM A SIMPLE CONTROL DEVICE TO AN INTEGRAL PART OF THE CUSTOMERS OVERALLS PLANT OPERATION.

| Control Upgrade | Improve Features: | Advantage: | Benefit: |
|----------------------|--|--|--|
| Soft Start: | <ul style="list-style-type: none"> • Reduce Starting Current or Voltage • Diagnostic and Fault Codes • Network Connectivity | <ul style="list-style-type: none"> • Reduce In-Rush current at start-up • Less mechanical stress on motor • Faster maintenance • Improved operational transparency | <ul style="list-style-type: none"> • Lower electrical costs • Extended motor life • Less downtime |
| VFD's: | <ul style="list-style-type: none"> • Speed control • Diagnostic and Fault Codes • Network Connectivity • Regenerative energy recovery • Improved safety (SIL 2) | <ul style="list-style-type: none"> • Improved application performance • Faster maintenance • Improved operational transparency • Higher energy efficiency | <ul style="list-style-type: none"> • Lower electrical costs • Extend motor life • Less downtime • Better quality control |
| Smart Upgrade | Operational Data: | Service Data: | Diagnostic Data: |
| Smart Motor Control: | <ul style="list-style-type: none"> • Motor status • Current per Phase & Max current • Phase Voltage & sequence • Phase Unbalance • Time to trip • Motor temp rise • And much more | <ul style="list-style-type: none"> • Motor Operational time • Motor Stop time • Number of motor starts • Number of overload trips • Device operational hrs. • Consumed power • Time | <ul style="list-style-type: none"> • Fault and Event logs with time stamp • Detailed early warning and fault messages • Value of last trip • And much more |



**CUSTOM
ENCLOSURE**



approved facility

**QUALITY
PRODUCTS**



**EXPLOSION
PROOF**

