Electro-Mechanical Industries, Inc.

13300 6th Avenue North Plymouth, Minnesota
www.e-m-i.com

EMI takes pride in our ability to service our customers. We work closely with engineers, electrical contractors, electrical wholesalers and facility managers to insure a complete electrical installation.


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## About Us

Electro-Mechanical Industries, Inc. (EMI), is a manufacturer of standard and custom electrical distribution equipment serving the needs of the electrical industry in the national and international marketplaces. The company was established in 1981 and has continued to increase its products and service offerings. We have been manufacturing QUALITY electrical distribution equipment for over 32 years. From sales and engineering, to our manufacturing and shipping personnel, we have the knowledge, experience and dedication to assist you with all your electrical power distribution needs.

We are committed to delivering the best value to our clients by providing quality products and service for electrical distribution equipment. It is our goal to meet the technical needs and deadlines of our customers and to ensure their full satisfaction.

Plymouth, Minnesota is the home of our 63,000 square foot facility where our products are engineered and manufactured.


## What EMI's Certifications can do for you

- Meet your company's Diversity Supplier initiatives
- Opportunity to gain extra consideration for state and federal government projects
- Provide added value to your company's strategic initiatives



## Product Line

## UL Low Voltage Switchgear

- UL 891 up to 6000A
- UL 1558 up to 3000A
- Service Entrance Rated Equipment
- Enclosed fusible switches/breakers
- Residential apartment metering
- Commercial metering


## Medium Voltage Switchgear

- 5 kV \& 15kv Metal Clad-UL Listed
- 5 kV \& 15 kV Metal Enclosed—UL Listed
- $\quad 25 \mathrm{kV}$ \& 35 kV Metal Enclosed


## CT Cabinets

- Xcel Energy Service Area
- Alliant Energy Service Area
- Wisconsin Public Service Area
- Mid American Energy Service Area


## Cable Termination Cabinets

- UL Listed w/o current transformers
- UL Listed with current transformer provisions


## Panelboards

- Power Distribution Type
- Lighting
- Retrofit interiors and trims


## Transformers

- Dry Type \& Oil Transformers
- Energy Efficient Transformers
- Current Transformers
- Potential Transformers


## Control \& Switchgear Houses \& Generator

## Enclosures

- Skin Tight / Walk-in
- Sound Attenuated
- IBC where required
- Custom colors
- Fire suppression
- Heated/Air Conditioned


## Retro Fit Packages for Existing Buildings

- Sound Attenuation
- Dampers
- Fixed Louvers
- Exhaust Systems
- Radiator to Wall Discharge Adapter
- Exterior fuel fill boxes with containment and fill alarms


## Paralleling Switchgear

- Utility to Generator
- Utility to Utility
- Generator to Generator
- Design and upgrade of systems
- Transfer Breaker Pairs


## Unit Substations

- Dry Type
- Oil Filled


## UL 508 Control Panels/Enclosures

- Custom Designed utilizing relays \& PLC's
- Smoke Evac panels


## Bus Duct

- Short Run Service Entrance Bus Duct
- Plug-in / Feeder Duct


## Wireways and Enclosures

- Screw / Hinge Pull boxes
- Wall and Floor Duct
- Custom control cabinets
- Custom / retrofit trims


## Capacitors

- Fixed
- Automatic
- Filtered


## Component Parts

- Metering SWBD Disconnect Kits
- Fusible Switches
- Circuit Breakers
- Pullout \& Connecting Hardware
- Fuses
- Bus Bars
- Electrical Insulators
- PLC's
- Operator Interface Terminals
- Variable Frequency Drives (VFD's)
- Protective Relays
- Lugs
- Customer Metering Devices
- Push Buttons
- Selector Switches
- Panel Indicators
- Snake Skin Edging
- Ground Bar Assemblies


## QSP Panels

## Product Features

- Indoor/Outdoor Galvanized Wall Mount Enclosure
- 800 amp maximum
- 240/120, 208Y/120 or 480Y/277 Single Phase or Three Phase Applications
- CT Provisions and main disconnect or six disconnect rule
- Single cabinet, pad lockable two-door design on outdoor enclosures. Single CT door on indoor enclosures
- Aluminum bus standard, copper bus available
- Hard Bus Construction-No Internal Cabling!
- Bussed Interior Type Chassis
- 100,200 or 400 amp fusible pullouts
- Siemens VacuBreak Switches
- Siemens Circuit Breakers
- Bottom Feed
- Internal Wireway for Load Exit Top or Bottom
- 65,000kA Bus Bracing


QSP Price List

| Description |  | Space | List Each | Qty | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Base Price: Xcel MN Service Area ( 72 " $\mathrm{H} \times 34{ }^{\prime \prime} \mathrm{W} \times 14{ }^{\prime \prime} \mathrm{D}$ ) | 3 Phase | 27.5 | \$3,300.00 |  |  |
|  | 1 Phase | 27.5 | \$3,100.00 |  |  |
| Base Price: Xcel WI Service Area ( 80 " $\mathrm{H} \times 34{ }^{\prime \prime} \mathrm{W} \times 14{ }^{\prime \prime} \mathrm{D}$ ) | 3 Phase | 27.5 | \$3,610.00 |  |  |
|  | 1 Phase | 27.5 | \$3,410.00 |  |  |
| 240 Volt Fusible Device Adders* |  |  |  |  |  |
| 100A/2P Fusible Pullout (Class T Fuses)* |  | 7.5 | \$690.00 |  |  |
| 100A/3P Fusible Pullout (Class T Fuses)* |  | 7.5 | \$750.00 |  |  |
| 200A/2P Fusible Pullout (Class T Fuses)* |  | 7.5 | \$825.00 |  |  |
| 200A/3P Fusible Pullout (Class T Fuses)* |  | 7.5 | \$965.00 |  |  |
| 400A/2P Fusible Pullout (Class T Fuses) |  | 7.5 | \$1,790.00 |  |  |
| 400A/3P Fusible Pullout (Class T Fuses) |  | 7.5 | \$2,045.00 |  |  |
| 30-30A/3P Twin VB Switch (RK5 Fuses) |  | 5.0 | \$1,000.00 |  |  |
| 60-60A/3P Twin VB Switch (RK5 Fuses) |  | 5.0 | \$1,015.00 |  |  |
| 100-100A/3P Twin VB Switch (RK5 Fuses) |  | 7.5 | \$1,295.00 |  |  |
| 200A/3P Single VB Switch (RK5 Fuses) |  | 10.0 | \$1,390.00 |  |  |
| 200A-200A/3P Twin VB Switch (RK5 Fuses) |  | 10.0 | \$2,790.00 |  |  |
| 400A/3P Single VB Switch (RK5 Fuses)-INDOOR ONLY |  | 15.0 | \$2,880.00 |  |  |
| 600A/3P Singe VB Switch (RK5 Fuses)-INDOOR ONLY |  | 15.0 | \$3,820.00 |  |  |
| *Adder for Top Feed Version of Panel |  |  | \$1,000.00 |  |  |

QSP Price List (Continued)

| Description |  |  | Space (Inches) | List Each | Qty | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 480 Volt Fusible Device Adders |  |  |  |  |  |  |
| 100A/3P Fusible Pullout (Class T Fuses)* |  |  | 7.5 | \$870.00 |  |  |
| 200A/3P Fusible Pullout (Class T Fuses)* |  |  | 7.5 | \$1,170.00 |  |  |
| 400A/3P Fusible Pullout (Class T Fuses) |  |  | 8.75 | \$2,335.00 |  |  |
| 30A-30A/3P Twin VB Switch (RK5 Fuses) |  |  | 7.5 | \$1,300.00 |  |  |
| 60A-60A/3P Twin VB Switch (RK5 Fuses) |  |  | 7.5 | \$1,325.00 |  |  |
| 100A-100A/3P Twin VB Switch (RK5 Fuses) |  |  | 7.5 | \$1,850.00 |  |  |
| 200A-200A/3P Twin VB Switch (Class J Fuses) |  |  | 10.0 | \$3,230.00 |  |  |
| 200A/3P Single VB Switch (RK5 Fuses) |  |  | 10.0 | \$1,800.00 |  |  |
| 400A/3P Single VB Switch (RK5 Fuses)-INDOOR ONLY |  |  | 15.0 | \$3,615.00 |  |  |
| 600A/3P Single VB Switch (RK5 Fuses)-INDOOR ONLY |  |  | 15.0 | \$3,980.00 |  |  |
| 3 Pole Circuit Breakers | 240V AIC | 480V AIC |  |  |  |  |
| 70A-100A/3P ED4 Frame* | 65K | 18K | 3.75 | \$780.00 |  |  |
| 110A-125A/3P ED4 Frame* | 65K | 18K | 3.75 | \$1,380.00 |  |  |
| 70A-100A/3P HED4 Frame* | 100K | 42K | 3.75 | \$1,120.00 |  |  |
| 110A-125A/3P HED4 Frame* | 100K | 42K | 3.75 | \$2,040.00 |  |  |
| 100A-225A/3P QJ2 Frame* | 10K | - | 5.0 | \$1,230.00 |  |  |
| 100A-225A/3P QJH2 Frame* | 22K | - | 5.0 | \$1,545.00 |  |  |
| 100A-225A/3P QJ2H Frame* | 42K | - | 5.0 | \$1,915.00 |  |  |
| 60-225A/2P QJ2 Frame* | 10K | - | 5.0 | \$1,110.00 |  |  |
| 60A-225A/2P QJH2 Frame* | 22K | - | 5.0 | \$1,395.00 |  |  |
| 60A-225A/2P QJ2H Frame* | 42K | - | 5.0 | \$1,730.00 |  |  |
| 100A-225A/3P FXD6 Frame* | 65K | 35K | 5.0 | \$2,230.00 |  |  |
| 250A/3P FXD6 Frame* | 65K | 35K | 5.0 | \$3,340.00 |  |  |
| 100A-225A/3P HFXD6 Frame* | 100K | 65K | 5.0 | \$3,905.00 |  |  |
| 250A/3P HFXD6 Frame* | 100K | 65K | 5.0 | \$4,890.00 |  |  |
| 200A-400A/3P JXD2 Frame | 65K | - | 8.75 | \$2,875.00 |  |  |
| 200A-400A/3P JXD6 Frame | 65K | 35K | 8.75 | \$3,340.00 |  |  |
| 200A-400A/3P HJXD6 Frame | 100K | 65K | 8.75 | \$4,900.00 |  |  |
| 400A-600A/3P LXD6 Frame | 65K | 35K | 8.75 | \$4,740.00 |  |  |
| 400A-600A/3P HLXD6 Frame | 100K | 65K | 8.75 | \$6,000.00 |  |  |

* Devices may be tandem mounted.


## Ordering Information

- Panel has 27.5 " vertical device space
- Fusible devices include fuses
- Devices must be ordered with the panel
- Freight not included


## Current Transformer Cabinets



Xcel Energy Service Area CT Cabinet:
400-600A Dimensions: 30 "W x $48^{\prime \prime} \mathrm{H} \times 10^{\prime \prime} \mathrm{D}$


800A Dimensions: 30 "W x 60 " $\mathrm{H} \times 16$ "D

## About Our Cabinets

EMI, Inc. manufactures current transformer cabinets that meet the specific requirements of many utilities. Wall mount current transformer cabinets are available in several sizes and configurations ranging from 400 amps to 1600 amps . Pad mount cabinets are available up to 4000 amps .

## Product Features

- 400 through 800 amp applications designed for bar type transformers
- 1000 through 1600 amp applications designed for window type transformers, supplied with link and CT support
- Rated at $600 \mathrm{~V}, 3 \mathrm{PH}, 4 \mathrm{~W}$, with full size insulated neutral
- Interrupting rating $65,000 \mathrm{amp}$ short circuit rating standard
- UL Listed / Nema 3R rated for both indoor and outdoor applications
- Lug/CT landing pads are fabricated of EC grade aluminum rated at 750 amps per square inch. $1 / 2^{\prime \prime} \mathrm{CT}$ mounting bolts are provided. Standard lug range (1) 750 MCM-1/0 AWG or (2) 300 MCM-1/0 AWG.


## Available Features

- Copper Bus
- $85,000 \mathrm{~A}$ Short circuit bracing $(800-1600 \mathrm{~A})$


# Current Transformer Cabinets- Xcel Energy Service Area Price List 

## Minnesota, North Dakota \& South Dakota Service Area

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CTB346M | 400-600 | 3 Phase/4 Wire | 2-Line \& Load* | 48 "H x 30 "W x 10"D | \$1,240.00 |
| CTB380M | 800 | 3 Phase/4 Wire | 3-Line \& Load* | 60 "H x $34 " \mathrm{~W} \times 12^{\prime \prime} \mathrm{D}$ | \$1,480.00 |
| CTB312MX | 1200 | 3 Phase/4 Wire | 4-Line \& Load* | 60 "H x 34 "W x 12"D | \$1,860.00 |
| CTB31600 | 1600 | 3 Phase/4 Wire | 5-Line \& Load* | 68 "H x 38 "W x 16"D | \$3,660.00 |
| CTB146M | 400-600 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30 "W x 10"D | \$1,170.00 |
| CTB180M | 800 | 1 Phase/3 Wire | 3-Line \& Load* | 60 "H x $34 " \mathrm{~W} \times 12 \mathrm{D}$ | \$1,410.00 |

Wisconsin/Upper Michigan Service Area

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CTB346W | 400-600 | 3 Phase/4 Wire | 2-Load* | 48 "H x 30"W x 10"D | \$1,220.00 |
| CTB380W | 800 | 3 Phase/4 Wire | 3-Load* | 60 "H x 34"W x 12"D | \$1,475.00 |
| CTB312WX | 1200 | 3 Phase/4 Wire | 4-Load* | $60 " \mathrm{H} \times 34$ "W x 12"D | \$1,860.00 |
| CTB146W | 400-600 | 1 Phase/3 Wire | 2-Load* | 48 "H x 30"W x 10"D | \$1,160.00 |
| CTB180W | 800 | 1 Phase/3 Wire | 3-Load* | $60 " \mathrm{H} \times 34$ W W x 12"D | \$1,380.00 |

## Enclosure Only with Back Pan

| Catalog Number | Description | List Price |
| :---: | :--- | :---: |
| ENC3048 | $48 " \mathrm{H} \times 30$ "W $\times 10$ "D Enclosure | $\$ 995.00$ |
| ENC3460 | $60 " \mathrm{H} \times 34$ "W $\times 12$ "D Enclosure | $\$ 1,300.00$ |

CT Cabinet Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :--- |
| Suffix "-H" | 85,000A Short circuit bracing (800-1600A) | Add $\$ 320.00$ |

*Standard lug range (1) 750 MCM-1/0AWG or (2) 300 MCM-1/0 AWG

## Current Transformer Cabinets— Xcel Energy Service Area Price List (Continued)

Colorado Service Area

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CTB346M-CO | 400-600 | 3 Phase/4 Wire | 2-Line \& Load* | 48 "H x 30"W x 10"D | \$1,200.00 |
| CTB380M-CO | 800 | 3 Phase/4 Wire | 3-Line \& Load* | 60 "H x $34 " \mathrm{~W}$ x 12"D | \$1,470.00 |
| CTB312MX-CO | 1200 | 3 Phase/4 Wire | 4-Line \& Load* | $60 " \mathrm{H} \times 34 " \mathrm{~W} \times 12 \mathrm{D}$ | \$2,580.00 |
| CTB31600-CO | 1600 | 3 Phase/4 Wire | 5-Line \& Load* | 68 "H x 38"W x 16"D | \$3,490.00 |
| CTB146M-CO | 400-600 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30"W x 10"D | \$1,130.00 |
| CTB180M-CO | 800 | 1 Phase/3 Wire | 3-Line \& Load* | 60 "H x $34 " \mathrm{~W} \times 12 \mathrm{D}$ | \$1,385.00 |

Enclosure Only with Back Pan

| Catalog Number | Description | List Price |
| :---: | :--- | :---: |
| ENC3048 | $48 " \mathrm{H} \times 30$ "W $\times 10$ "D Enclosure | $\$ 995.00$ |
| ENC3460 | $60 " \mathrm{H} \times 34$ "W $\times 12$ "D Enclosure | $\$ 1,300.00$ |

CT Cabinet Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :--- |
| Suffix "-H" | 85,000 A Short circuit bracing (800-1600A) | Add $\$ 320.00$ |

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# Current Transformer Cabinets—Alliant Energy Service Area Price List 

| Wall mount 250V, Bottom In/Top Out |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| ALICT140 | 400 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$1,740.00 |
| ALICT160 | 600 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$1,800.00 |
| ALICT180 | 800 | 1 Phase/3 Wire | 3-Line \& Load* | 60 "H x 30 "W x 16"D | \$1,955.00 |
| ALICT340 | 400 | 3 Phase/4 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$1,785.00 |
| ALICT360 | 600 | 3 Phase/4 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$1,940.00 |
| ALICT380 | 800 | 3 Phase/4 Wire | 3-Line \& Load* | 60 "H x 30 "W x 16"D | \$2,060.00 |
| ALICT312 | 1200 | 3 Phase/4 Wire | 4-Line \& Load* | 60 "H x 34 "W x 16"D | \$3,310.00 |

Wall mount 250/600V, Bottom In/Bottom Out with PT Pan

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALICT140P | 400 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$1,925.00 |
| ALICT160P | 600 | 1 Phase/3 Wire | 2-Line \& Load* | 48 "H x 30 "W x 16"D | \$2,065.00 |
| ALICT180P | 800 | 1 Phase/3 Wire | 3-Line \& Load* | $60 " \mathrm{H} \times 30$ "W x 16"D | \$2,210.00 |
| ALICT340P | 400 | 3 Phase/4 Wire | 2-Line \& Load* | $48^{\prime \prime} \mathrm{H} \times 38$ "W x 16"D | \$2,060.00 |
| ALICT360P | 600 | 3 Phase/4 Wire | 2-Line \& Load* | 48 "H x 38 "W x 16"D | \$2,150.00 |
| ALICT380P | 800 | 3 Phase/4 Wire | 3-Line \& Load* | 60 "H x 38 "W x 16"D | \$2,450.00 |
| ALICT312P | 1200 | 3 Phase/4 Wire | 4-Line \& Load* | 60 "H x 42"W x 16"D | \$4,150.00 |

## Current Transformer Cabinets-Alliant Energy Service Area Price List (Continued)

Pad mount/Wall mount 250 \& 600V, Bottom In/Bottom Out with PT Pan

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALIPM380 | 800 | 3 Phase/4 Wire | 3-Line \& Load* | 65 "H x 54 "W x 24 "D | \$4,460.00 |
| ALIPM312 | 1200 | 3 Phase/4 Wire | 4-Line \& Load* | 65 "H x 54 "W x 24 "D | \$5,030.00 |
| ALIPM316 | 1600` | 3 Phase/4 Wire | 5-1000 MCM Line 5-750 MCM Load | 75 "H x 62 "W x 24 "D | \$6,190.00 |
| ALIPM320 | 2000 | 3 Phase/4 Wire | 6-1000 MCM Line 6-750 MCM Load | 75 "H x 62 "W x 24 "D | \$6,660.00 |
| ALIPM325 | 2500 | 3 Phase/4 Wire | 7-1000 MCM Line 7-750 MCM Load | $75 " \mathrm{H} \times 62 \mathrm{~W} \times 24$ "D | \$9,390.00 |
| ALIPM330 | 3000 | 3 Phase/4 Wire | 8-1000 MCM Line 8-750 MCM Load | $75 " \mathrm{H} \times 62$ "W x 24 "D | \$10,230.00 |

CT Cabinet Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :---: |
| PTB | PT box to convert 250V wall mount to 600V | $\$ 450.00$ |

# Current Transformer Cabinets- Wisconsin Public Service Area Price List 

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CTB146WPS | $400-600$ | 1 Phase/3 Wire | 2-Load* | $48 " \mathrm{H} \times 30$ "W x 10"D | $\$ 1,680.00$ |
| CTB180WPS | 800 | 1 Phase/3 Wire | 3-Load* | $60 " \mathrm{H} \times 34$ "W x 12"D | $\$ 1,905.00$ |
| CTB346WPS | $400-600$ | 3 Phase/4 Wire | 2-Load* | $48 " \mathrm{H} \times 30 " \mathrm{~W} \times 10 " \mathrm{D}$ | $\$ 1,730.00$ |
| CTB380WPS | 800 | 3 Phase/4 Wire | 3-Load* | $60 " \mathrm{H} \times 34$ "W $\times 12 " \mathrm{D}$ | $\$ 1,960.00$ |
| CTB312WPS | 1200 | 3 Phase/4 Wire | 4 -Load* | $66 " \mathrm{H} \times 42 " \mathrm{~W} \times 16 " \mathrm{D}$ | Consult <br> Factory |

## Current Transformer Cabinets Mid American Energy Price List (lowa)

| Catalog Number | Amperes | Service | Lugs Per PH\&N | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :--- | :--- |
| CTB146M | $400-600$ | 1 Phase/3 Wire | 2-Line \& Load* | $48 " \mathrm{H} \times 30$ "W x 10"D | $\$ 1,170.00$ |
| CTB180M | 800 | 1 Phase/3 Wire | 3-Line \& Load* | $60 " \mathrm{H} \times 34 " \mathrm{~W} \times 12 " \mathrm{D}$ | $\$ 1,410.00$ |
| CTB346M | $400-600$ | 3 Phase/4 Wire | 2-Line \& Load* | $48 " \mathrm{H} \times 30$ "W x 10"D | $\$ 1,240.00$ |
| CTB380M | 800 | 3 Phase/4 Wire | 3-Line \& Load* | $60 " \mathrm{H} \times 34 " \mathrm{~W} \times 12 " \mathrm{D}$ | $\$ 1,480.00$ |
| CTB312MX | $1000-1200$ | 3 Phase/4 Wire | 4-Line \& Load* | $60 " \mathrm{H} \times 34 " \mathrm{~W} \times 12 " \mathrm{D}$ | $\$ 1,860.00$ |
| CTB31600 | 1600 | 3 Phase/4 Wire | 5-Line \& Load* | $68 " \mathrm{H} \times 38 " \mathrm{~W} \times 16 " \mathrm{D}$ | $\$ 3,660.00$ |

Mid American Energy CT Cabinet Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :---: |
| PTCAB | PT Cabinet $24 " \mathrm{H} \times 24 " \mathrm{~W} \times 10 " \mathrm{D}$ | $\$ 670.00$ |
| CTW48 | $48 "$ Side Wireway $47 " \mathrm{H} \times 10-1 / 4 " \mathrm{~W} \times 10-1 / 4 " \mathrm{D}$ | $\$ 720.00$ |
| CTW60 | $60 "$ Side Wireway $59 " \mathrm{H} \times 12-3 / 4 " \mathrm{~W} \times 12-1 / 4 " \mathrm{D}$ | $\$ 830.00$ |

[^1]
## Cable Termination Cabinets



Cable Termination Cabinet without current transformer provisions.

Dimensions: 65"H x 42"W x 24"D*


Cable Termination Cabinet with current transformer provisions.
Dimensions: 65 " $\mathrm{H} \times 54$ "W x 30 "D

## Product Features

- Pad mount cable termination cabinets
- Available from 800 A through $4,000 \mathrm{~A}, 3 \mathrm{PH}, 4 \mathrm{~W}$, with aluminum or copper bus
- Interrupting rating 85,000 amp short circuit rating standard.
- UL Listed for Nema 3R outdoor applications
- Aluminum bus rated at 750 amps per square inch is standard. Copper bus rated at 1000 amps per square inch is available
- Mounting provisions for current transformers are supplied on cabinets with CT provisions
- Lugs are provided on the right side for customers connections, unless otherwise specified
- Standard color is utility green
- Hinged door on CTC without provisions, per Xcel requirement
- No cable lashing required up to $85,000 \mathrm{amps}$


## Available Options

- 12 " x 12 " throat may be installed on the back or sides
- 100,000 amp short circuit rating
- Copper Bus
- Special paint colors


## Cable Termination Cabinet Price List

Cable Termination Cabinets with CT Provisions Aluminum Bus / 85,000 AIC Bracing

| Catalog Number | Amperes | Service | Lugs Per PH\&N | List Price |
| :--- | :---: | :---: | :---: | :---: |
| CTC-WP3800P | 800 | 3 Phase/4 Wire | 3-Phase \& Neutral* | $\$ 5,295.00$ |
| CTC-WP31000P | 1000 | 3 Phase/4 Wire | 3-Phase \& Neutral* | $\$ 5,330.00$ |
| CTC-WP31200P | 1200 | 3 Phase/4 Wire | 4-Phase \& Neutral* | $\$ 5,375.00$ |
| CTC-WP31600P | 1600 | 3 Phase/4 Wire | 5-Phase \& Neutral* | $\$ 5,600.00$ |
| CTC-WP32000P | 2000 | 3 Phase/4 Wire | 6-Phase \& Neutral* | $\$ 5,930.00$ |
| CTC-WP32500P | 2500 | 3 Phase/4 Wire | 7-Phase \& Neutral* | $\$ 6,300.00$ |
| CTC-WP33000P | 3000 | 3 Phase/4 Wire | 8-Phase \& Neutral* | $\$ 6,450.00$ |
| CTC-WP34000P | 4000 | 3 Phase/4 Wire | 12-Phase \& Neutral** | $\$ 10,100.00$ |

Cable Termination Cabinets Without CT Provisions
Aluminum Bus / 85,000 AIC Bracing

| Catalog Number | Amperes | Service | Lugs Per PH\&N | List Price |
| :---: | :---: | :---: | :---: | :---: |
| CTC-NP3800P | 800 | 3 Phase/4 Wire | 3-Phase \& Neutral* | $\$ 3,620.00$ |
| CTC-NP31000P | 1000 | 3 Phase/4 Wire | 3-Phase \& Neutral* | $\$ 3,685.00$ |
| CTC-NP31200P | 1200 | 3 Phase/4 Wire | 4-Phase \& Neutral* | $\$ 3,750.00$ |
| CTC-NP31600P | 1600 | 3 Phase/4 Wire | 5-Phase \& Neutral* | $\$ 3,830.00$ |
| CTC-NP32000P | 2000 | 3 Phase/4 Wire | 6-Phase \& Neutral* | $\$ 4,005.00$ |
| CTC-NP32500P | 2500 | 3 Phase/4 Wire | 7-Phase \& Neutral* | $\$ 4,360.00$ |
| CTC-NP33000P | 3000 | 3 Phase/4 Wire | 8-Phase \& Neutral* | $\$ 4,650.00$ |
| CTC-NP34000P | 4000 | 3 Phase/4 Wire | 12-Phase \& Neutral** | $\$ 7,320.00$ |

## CTC Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :--- |
| Suffix "-H" | 100,000 AIC Bracing | Add $\$ 660.00$ |
| Suffix "-T" | 12 " $\times 12$ " $\times 12 "-21$ " Telescoping Throat | Add $\$ 690.00$ |
| Suffix "-LT" | 12 " $\times 12$ " $\times 30 "-55 "$ Telescoping Throat | Add $\$ 1,095.00$ |
| Suffix "-CU" | Copper Bus | Consult Factory |

## Cable Termination Cabinet (with Dual Metering)



Intertek

## Product Features

- Pad mount cable termination cabinets
- Available from 800A through 4,000A, 3PH, 4W, with aluminum or copper bus
- Interrupting rating 85,000 amp short circuit rating standard.
- ETL Listed for Nema 3R outdoor applications
- Aluminum bus rated at 750 amps per square inch is standard. Copper bus rated at 1000 amps per square inch is available
- Mounting provisions for dual current transformers are supplied
- Mechanical lugs are provided on the load side for customers connections, unless otherwise specified
- Supports connections for off peak metering
- Standard color is utility green
- Singe cabinet dimensions: 65 "H x 54 "W x 45 "D
- No cabling lashing required up to 85,000 amps


## Available Options

- 12 " $\times 12$ " throat may be installed on the sides
- 100,000 amp short circuit rating
- Copper Bus
- Special paint colors


## Current Transformer \& Switch Cabinet (400-800A)



## Product Features

- Single cabinet, pad lockable 2-door design
- UL Listed \& SUSE
- Hard bus construction-No internal cabling for SIMPLIFIED INSTALLATION!
- Nema 3R for Indoor and Outdoor Applications
- 400-800A, $600 \mathrm{~V}, 3 \mathrm{PH}, 4 \mathrm{~W}$, Bar-type current transformer
- 65,000A Short Circuit Interrupt Rating
- No cable lashing required for $65,000 \mathrm{~A}$ Rating
- 400A \& 600A include Class J fuses
- 800A includes Class L fuses
- Xcel Service Area


## Product Construction

- Code gauge steel (G-90 Galvanized)
- Internal wireway for load exit top or bottom
- Bottom feed design


## Available Options

- 85,000A Short Circuit Interrupt Rating
- Painted front plates
- 400A \& 600A Class T Fusing
- Wisconsin Service Area Cabinet

| Catalog Number | Amps | Lugs | Dimensions | List Price |
| :---: | :---: | :---: | :---: | :---: |
| MSCT-4 | 400A | Line Terminals-One 750 MCM Dual rated AL/CU set screw lug-(1) 750 MCM-1/0 or (2) 300 MCM-1/0 Load Terminals - One (1) \#2 through 600 kcmil AL/CU set screw lug | $52 \mathrm{H} \times 30 \mathrm{~W}$ x 10"D | \$4,940.00 |
| MSCT-6 | 600A | Line Terminals-Two 750 MCM Dual rated AL/CU set screw lugs-(2) 750 MCM-1/0 or (4) 300 MCM-1/0 Load Terminals - Two (2) \#2 through 600 kcmil AL/CU set screw lugs | $60 " \mathrm{H} \times 34$ "W x 12"D | \$5,985.00 |
| MSCT-8 | 800A | Line Terminals-Two 750 MCM Dual rated AL/CU set screw lugs-(2) 750 MCM-1/0 or (4) 300 MCM-1/0 Load Terminals - Two (2) \#2 through 600 kcmil AL/CU set screw lugs | $66 " \mathrm{H} \times 34$ "W x 12"D | \$8,860.00 |

MSCT Accessories

| Catalog Number | Description | List Price |
| :---: | :--- | :--- |
| Suffix "-H" | 85,000 A AIC Bracing | Add $\$ 700.00$ |
| Suffix "-P" | Painted Front Plates | Add $\$ 630.00$ |

## Switchboards

## About Our Switchboards

At Electro-Mechanical Industries, Inc., our years of experience in switchboard design and manufacturing allow for an unprecedented flexibility in custom design to meet all your electrical distribution needs. We manufacture a complete line of service entrance, fusible distribution, circuit breaker distribution, utility metering for single or multiple tenants and special application switchboards.

Switchboards can incorporate transfer switches for emergency power as required. These switchboards are listed by UNDERWRITERS LABORATORIES when applicable and appropriate.
EMI, Inc. specializes in the design and fabrication of additional sections of switchgear to match and connect to the cross bus of existing switchgear REGARDLESS OF THE MANUFACTURER. Back-to-back, "L-shaped", and other special lineups can be provided as required.

## Main Switchboard Standards

- TYPE 1 freestanding enclosures fabricated of code gauge steel and phosphatized, primed and painted as required.
- Standard construction is rail and panel design with internal structure components and rear cover plates fabricated of G90 galvanized steel, unless otherwise specified.
- All switchboards are built in accordance with ANSI standards, UL 891 and NEC.
- Standard dimensions are 38 " or 42 " wide x 90 " high. The standard depth is 24 inches for switchboards through 2000 amps and 30 inches for switchboards from 2001 through 4000 amps. Special size switchboards are commonly supplied for space restricted and other special applications. TYPE 3R and TYPE 12 enclosures can be provided as required.
- Standard bus structure is fabricated of electrical grade tin plated aluminum rated at 750 amps per square inch current density. Silver plated copper bus rated at 1000 amps per square inch current density is available as required. Standard bus bracing is $50,000 \mathrm{amp}$ short circuit rating. Bus bracing up to $100,000 \mathrm{amp}$ short circuit rating is available as required.
- Solid state zero sequence ground fault protection is available when required. Phase loss, phase reversal and low line voltage protection with shunt trip or capacitive discharge shunt trip are also available. Transient Voltage Surge Suppression (TVSS) units may be utilized as specified.
- Instrumentation is available as follows; ammeter, voltmeter, watt meter, watt-hour meter(s), demand watt-hour meter(s), power factor meter, varmeter, frequency meter, digital meter, or metering systems, SCADA systems and control systems using PLC and data acquisition technology.
- Other instrumentation is available on request.


UL Listed File \#E67452


Two (2) section switchboard with utility metering, Boltswitch main with GFI, and fusible distribution.

## Fusible Distribution Switchboards

- 70 inches of mounting space is available in a standard interior. Under some circumstances using larger (400 amp and above) switches, additional space is available. Switchboards can be ordered in 38 inch or 42 inch widths. The following chart lists the vertical space requirements for the most commonly used SIEMENS-ITE VacuBreak switches.


## Switch Description

30A-30A and 60A-60A Twin Switches; 240 VAC
100A-100A Twin Switches; 240 VAC
30A-30A through 100A-100A Twin Switches; 600 VAC
200A-200A Twin Switch; 240 or 600 VAC
200A Switch
400A Switch
600A Switch
800A and 1200A Switches
Utility Metering Provisions

## Space Req.

5 inches
7.5 inches
7.5 inches

10 inches
10 inches
15 inches
15 inches
20 inches
30 inches

- Consult the factory for sizes not listed. The NATIONAL ELECTRIC CODE requires that the operator of the top switch cannot be more than 78 inches above the floor. If the housekeeping pad does not extend a minimum of 36 inches in front of the switchgear the height of the pad must be deducted from the 78 inches.


UL Listed File \#E67452


## Multiple Tenant Metering Switchboards

## About Our Switchboards

EMI Inc. has been designing and manufacturing metering switchboards for many years. We have developed multiple tenant metering sections for commercial and residential apartment properties. Both commercial and residential sections are available with cross bus for multiple section lineups, main service disconnect or six disconnect design.

Commercial meter sections are 12 gauge frame and rail design, pan formed panels with internal support structure. The structures are constructed with G90 galvanized back panels and painted side and front plates. Standard dimensions are 38 " wide x 90 " high x 24 " deep. All metering switchboards are built in accordance with ANSI standards, UL 891 and NEC.

## Product Features

- UL Listed
- Up to ten (10) 200 amp meters \& disconnects per section at $208 \mathrm{Y} / 120$ volts
- $208 \mathrm{Y} / 120$ volt commercial hot sequence up to 320 amps
- 480 volt commercial cold sequence up to 200 amps
- 400 amps and above for current transformer metering
- Secondary metering disconnects may be:
- Fusible pullouts up to 400 amps
- Circuit breakers
- Siemens VacuBreak Switch (400 amps and above)
- ABB fusible disconnect (400 amps and above)
- New modular design allows for flexible tenant fit-ups


## Available Options

- Copper Bus
- Nema 3R structure
- Dim: 42 "W x 90 "H x 30 "D


Six Disconnect, MLO Nema 3R Board.


Two (2) section commercial metering, $208 \mathrm{Y} / 120$ volt with main disconnect.

## Residential/Apartment Metering

## Product Features

- 12 Single Phase Meters per 32" Section
- Reduced Section Size
- Single or Multiple Sections
- 125A Maximum Tenant (2-Pole)
- $85,000 \mathrm{~A}$ Maximum Short Circuit Interrupt Rating
- Competitive Pricing


## Product Construction

- Code gauge steel (G-90 Galvanized)
- Painted front plates
- Load exit top or bottom
- Nema 1 Construction
- Metering Section Dimensions: 32"W x 90"H x 12"D (125A Tenants)


## Available Options

- 200A Maximum Tenant (2-Pole), 10 Meters Per 36 "W x $90 " \mathrm{H}$ x 12 " D Section
- 1200A Maximum Cross Bus (Copper)
- Match up to Existing Switchgear:
- Incoming Main Switchboards
- Transition Pull Sections/ Incoming Lugs
- Existing Panels \& Switchboards
- Multiple Section with through bus (1200A max.)


Service Disconnect, House Disconnects and Individual Apartment Metering
Main Section 1 Dimensions: $38^{\prime \prime} W \times 90 " H \times 24 " D$
Metering Sections 2 \& 3 Dimensions: 36 "W x 90"H x 12"D

## Ground Fault Protection

Since 1971, Section 230-95 of the NATIONAL ELECTRIC CODE has required that ground fault protection be provided for solidly grounded WYE electrical services of more than 150 volts to ground, but not exceeding 600 volts phase to phase for each service disconnection means rated 1000 amps or more. This makes ground fault protection mandatory on $480 \mathrm{Y} / 277$ volt services, but not on $208 \mathrm{Y} / 120$ volt services or 480 volt, 3 wire delta services. With a phase to ground voltage of 120 volts an arcing fault to ground will usually self-extinguish at current zero. However, with 277 volts to ground there is a much better chance of the arc restriking after current zero, doing severe and increasing damage until the fault is cleared by an over current protection device. Therefore, ground fault protection is designed to protect the service from low level ground faults. High level ground fault protection is that afforded by the circuit over current device.

Ground fault protection is designed to protect equipment from low level ground faults. It is not "people" protection, and offers no protection from phase to phase, or phase to neutral faults.

EMI Inc. switchgear incorporates the zero sequence method of ground fault protection. This method utilizes a large rectangular current sensor that surrounds all the phase and neutral conductors. This sensing method is based on the fact that the vectorial sum of all phase and neutral currents in the system will equal zero unless a ground fault condition exists downstream of the sensing device. Should a fault exist, the fault current will flow outside the normal circuit conductors and cause the current sensor to trigger the ground fault relay.

The ground fault relay includes time and trip level settings. According to the NATIONAL ELECTRIC CODE the maximum trip level setting is 1200 amps and the maximum time delay is one second. However, considerable damage can be caused by a 1200 amp ground fault. Therefore, the proper setting of the trip and time delay should be as low as possible to afford maximum protection yet not cause "nuisance" tripping. These settings are specified by the project engineer after doing a coordination study considering the time-current curves of the over current protective device.

For additional information consult the NATIONAL ELECTRIC CODE.

## Phase Loss Monitor



## Product Features

- Phase Loss
- Low Voltage Protection
- Phase reversal
- Capacitor trip (Ensures that the main trips if control power is connected to the loss phase)
- If all phases are lost; unit does not trip
- Nema 1 or Nema 3R
- $208 \mathrm{Y} / 120$ or $480 \mathrm{Y} / 277 \mathrm{~V}$
- UL Listed


## Product Construction

- Code gauge steel (G-90 Galvanized)


## Available Options

- Indication for line


## 5kV, 15kV, 25kV \& 35kV Metal Enclosed Switchgear

## About Our Switchgear

Our metal enclosed switchgear is designed and manufactured from heavy, code gauge steel. The cabinets are welded, cleaned, fully primed and painted ANSI 61 gray, unless otherwise specified. Contact our sales department to discuss your medium voltage requirements.

## Product Features

- $5 \mathrm{kV}-15 \mathrm{kV}$ UL Listed, switchgear can be built up to 35 kV
- Utility metering sections, main switch, branch switch and fuse distribution
- Tie switch sections, bus transition section
- Substation main with transformer transition section
- Multiple source and paralleling options available
- Nema 1 Indoor or Nema 3R Outdoor ratings available
- Various fuse manufacturers and fuse mounting options are available
- Copper bus standard
- Standard color is ANSI 61 gray, custom paint color as specified


The above 15 kV sections controlled two utility services supplying a major hospital in Saint Paul, Minnesota. All switchgear sections, control panels and bus duct where designed and built by EMI. A PLC control system and a Touch Screen provided automatic transfer and system status.

UL Listed Metal
Enclosed
Switchgear
2S78


## Emergency Transfer \& Paralleling Switchgear

## About Our Switchgear

EMI, Inc. has designed, manufactured and commissioned utility to generator and utility to utility and generator to generator paralleling and back up systems throughout the United States. We have experience in manufacturing generator back up systems designed for multiple utility and multiple generator installations. Utility to utility paralleling systems have been designed and installed to provide power in critical health care facilities.
The end users of these systems include telephone companies, medical manufacturing companies, wastewater treatment plants, oil pumping stations, airports, schools, utilities, hospitals and governments.
The control systems for this equipment has utilized Programmable Logic Controllers (PLC), operator interfaces and a variety of instrumentation providing critical information for PLC use, system status monitoring, overall system control and data logging.

## Product Features

- Open or Closed Transition Options
- Load Shedding / Peak Shaving
- Touch Screen
- Power Monitoring


The above system was designed and manufactured by EMI, Inc. PLC, Touch Screen, bus monitoring devices and generator synchronizing control were programmed by EMI, Inc. The system provided backup power to a major Minneapolis area shopping mall. Three (3) two megawatt generators and one (1) utility were controlled by the system providing soft closed transfers between utility and the generators. EXPORT and IMPORT operation were also part of the system. A remote control (SCADA) was used to monitor and control all functions of the system. Power Monitoring devices supplied information to the PLC and Touch Screen for bus information and soft transfer operations.

## Generator Enclosures



## About Our Enclosures



EMI, Inc. has a strong reputation for building QUALITY custom generator enclosure packages. We have
in-house ENGINEERING knowledge to complete all your enclosure needs. Whether you are in need of retrofitting an existing installation, or a complete new enclosure package to meet stringent sound level requirements, we are the right fit for you! Your project will be engineered from the start to meet YOUR requirements.

Our thirty (30) plus years of generator knowledge is apparent in our SERVICE and PRODUCT. Our packages are found around the country in all types of applications including hospitals, health care facilities, utilities, water and waste water plants or pumping stations, data centers and office buildings.

EMI, Inc. can design and manufacture enclosure packages for ALL generator manufacturers.

## Product Features

- Aesthetic painted steel construction, architectural cladding available upon request
- Built to IBC standards
- Skin-tight or walk-in style construction
- Drop-over, structural skid base or fuel tank skid base
- Thermal insulated and sound attenuation options
- Louver options for motorized or stationary dampers
- Silencer options for roof mount or inside mount
- Lighting, heating, cooling and ventilation options
- Package control, paralleling and transfer options
- Fire suppression FM200 or CO2 options



## Terms of Sale and General Conditions

## Quotations

Written quotations expire in forty-five (45) days or by written notice within that period. Verbal quotations expire in five (5) days. Prices quoted by EMI, Inc. for products to be purchased from EMI, Inc. distributors are subject to review and confirmation by the distributors. Please review all quotations carefully as EMI, Inc. will not be responsible for any required materials and/or products not stated in the quote.

## Order Acceptance

All orders shall be subject to acceptance by EMI, Inc. and include only the materials and/or products stated on the order. Please review your order carefully as EMI, Inc. will not be responsible for any required materials and/or products not stated on the order.

## Minimum Billing

A one hundred (100) dollar minimum billing is in effect.

## Penalty Clause

Penalty clauses or liquidated damage clauses shall not be in effect unless approved in writing at the time of order.

## Delivery

EMI, Inc. will not be liable for any delay in delivery that is beyond its control. Every effort will be made to meet required shipping dates. The customer shall not be relieved of any obligation to accept or pay for goods by reason of any delay in delivery. A charge of one-half percent per month may be charged if customer cannot accept delivery of goods for any reason. EMI reserves the right to deliver goods by installments and each installment shall be deemed to be sold under a separate contract. Failure to deliver any installment or deliver any installment on time shall not entitle the customer to repudiate the purchase order in whole or part.

## Terms

Terms are net thirty (30) days from date of invoice to customers with approved credit. Past due accounts may be subject to a $1.5 \%$ finance charge per month.

## Published Prices

Unless otherwise stated, published prices are FOB the factory. Prices and discount schedules are subject to change without notice.

## Taxes

Published prices do not include any Federal, State, Local Use or Sales Tax.

## Shipping

Unless otherwise specified, all orders will be shipped by the most expeditious and inexpensive means. Shipping charges will be prepaid and added to the invoice at cost unless otherwise stated.

## Cancellation

Orders may be cancelled with written consent of EMI, Inc. and may be subject to reasonable and proper cancellations charges.

## Returned Goods

No products will be accepted without a Return Material Authorization. Restocking fees will apply to returned material, contact EMI, Inc. for additional information.

## Warranties

All products manufactured by EMI, Inc. are warranted to be free from defects of workmanship and material for a period of one (1) year from date of delivery. If any product fails to meet this warranty EMI, Inc. shall at its option, repair or replace at no charge any defective parts if a customer notifies us promptly and the equipment has not been altered or modified after shipment without specific factory authorization. If a failure can not be corrected by EMI, Inc.'s reasonable efforts, the parties concerned shall negotiate an equitable adjustment in price.
The preceding paragraph establishes the exclusive remedies for claims based on failure of the products to meet EMI, Inc.'s warranties and upon the expiration of the warranty all such liability shall terminate, THE WARRANTY CONTAINED HEREIN IS EXCLUSIVE AN IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO ALL WARRANITES OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

## Limitations of Liability

In no event shall EMI Inc. be liable for any consequential damages. EMI Inc.'s liability on any claim of any kind (including negligence) for any loss or damage arising out of or resulting from this agreement, or from the performance or breach thereof, or from the products furnished hereunder, shall in no case exceed the price of the product which gives rise to the claim. To the extent that a purchaser transfers title or use of the products sold hereunder to any third party, the purchaser shall obtain from such third party a provision affording EMI, Inc. and its suppliers the protection of the preceding sentence.


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[^0]:    *Standard lug range (1) 750 MCM-1/0AWG or (2) 300 MCM-1/0 AWG

[^1]:    *Standard lug range (1) 750 MCM-1/0AWG or (2) 300 MCM-1/0 AWG

