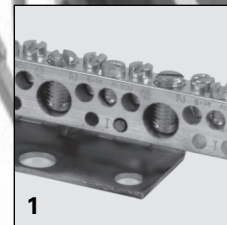
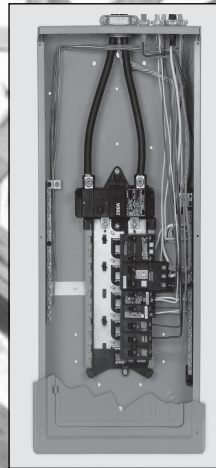


Rock Solid Load Centers

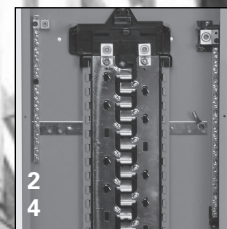
Features

The Murray Rock Solid Load Center is the highest quality, most versatile design in the industry. Features on the Rock Solid Load Center include:

1. "Swiss Cheese" style neutral bars provide multiple 1/0 connection points.
2. All units include factory installed ground bar and isolated neutral.
3. With the use of the included bonding strap, ground bars and neutral bars can be bonded for service entrance applications.
4. Outboard neutral and groundbars allow for all neutral and ground connections to be located away from breaker connections, making for a neat, clean installation.
5. Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.
6. Combination head screw on trim and upper pan screws provide installation flexibility.
7. All devices are convertible from main lug to main breaker or vice versa with the addition of main breaker or main lug kits.
8. All main breakers are straight in wired – no back feeding required.
9. A rigid, sturdy base pan with metal hook rails provides the most rugged breaker connection in the industry.
10. The outdoor enclosure has a slide hinge door for the easiest of installation and can be removed by backing out only one screw.
11. All indoor Rock Solid Load Centers are invertible for bottom feed applications.
12. Indoor load center trims are now available in white.



1

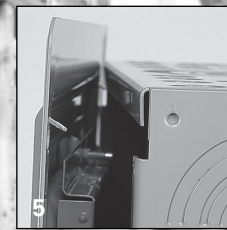


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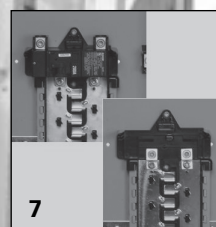
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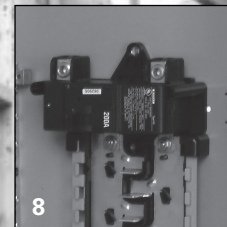
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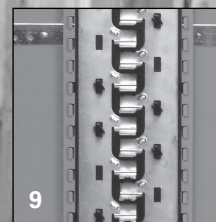
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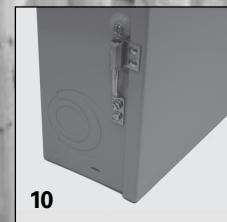
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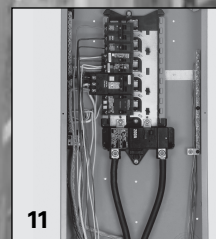
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9



10



11

Rock Solid Load Centers

Product Offering

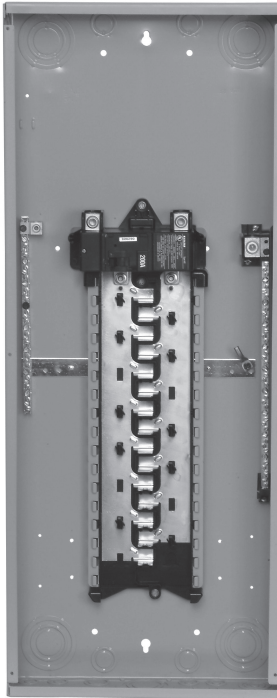
The Rock Solid Load Center product line provides a wide array of variation to meet any application need.

The following offering is available in the Rock Solid product line:

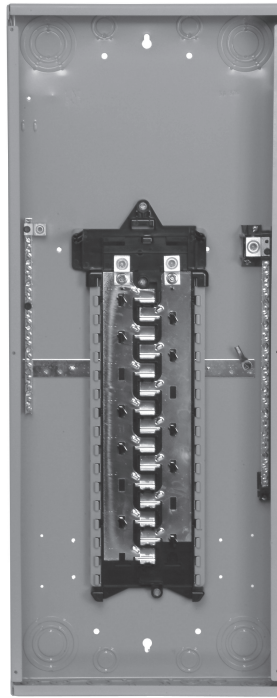
- 12-42 Circuits / Spaces
- Indoor and outdoor enclosures
- 100 to 225 Amp
- Main lug and main breaker
- Gray or white trim colors
- Value packs – a mix of branch breakers provided with the load center

Other load centers outside the Rock Solid product line include:

- Circuit breaker enclosures
- Small circuit (2-10) load centers
- 3-Phase load centers
- High amp load centers (400A)
- Specialty load centers (spa panels, renovation panels, and trailer panels)



Main Breaker Panel



Main Lug Panel

Rock Solid Load Centers[®]

Main Lug Only, 1 \emptyset , 65,000 AIC[®], Main Lug Panels 3-Wire 120/240V AC or 208Y/120V AC, Insulated and Bonded Split Neutrals[®]



Load centers on this page through 225 amp feature a new split neutral with one bonded and one insulated bar. For service entrance applications, install bonding strap, and use both bars for neutral and ground conductors. For non service entrance applications, do not install bonding strap and use insulated bar for neutral conductors and bonded bar for ground conductors.

NEW White trim load centers are now available. Add a "W" to the end of any Rock Solid Load Center (100-225A). Must be ordered in pallet quantities (20-25) and a 3-4 week lead time applies.

12-42 Circuit, 125–400 Amperes

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 [®] Catalog Number | Dimensions [®] | | | List Price \$ | Outdoor Type 3R [®] Catalog Number | Dimensions [®] | | | List Price \$ |
|-----------|---------------|--------------|---|-------------------------|------------------|-------|---------------|---|-------------------------|------------------|-----------------|---------------|
| | | | | Height | Width | Depth | | | Height | Width | Depth | |
| 125 | 12 | 24 | LC1224L1125 | 21 | 14 $\frac{3}{8}$ | 4 | 255.00 | LW1224L1125 | 20 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 408.00 |
| 125 | 16 | 32 | LC1632L1125 | 21 | 14 $\frac{3}{8}$ | 4 | 334.00 | LW1632L1125 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 491.00 |
| 125 | 20 | 40 | LC2040L1125 | 24 | 14 $\frac{3}{8}$ | 4 | 423.00 | LW2040L1125 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 572.00 |
| 125 | 30 | 40 | LC3040L1125 | 30 | 14 $\frac{3}{8}$ | 4 | 533.00 | — | — | — | — | — |
| 150 | 16 | 32 | LC1632L1150 | 24 | 14 $\frac{3}{8}$ | 4 | 417.00 | — | — | — | — | — |
| 150 | 24 | 40 | LC2440L1150 | 30 | 14 $\frac{3}{8}$ | 4 | 505.00 | — | — | — | — | — |
| 200 | 12 | 24 | — | — | — | — | — | LW1224L1200 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 555.00 |
| 200 | 20 | 40 | LC2040L1200 | 30 | 14 $\frac{3}{8}$ | 4 | 593.00 | LW2040L1200 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 737.00 |
| 200 | 24 | 40 | LC2440L1200 | 30 | 14 $\frac{3}{8}$ | 4 | 602.00 | — | — | — | — | — |
| 200 | 30 | 40 | LC3040L1200 | 36 | 14 $\frac{3}{8}$ | 4 | 644.00 | LW3040L1200 | 38 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 834.00 |
| 200 | 40 | 40 | LC4040L1200 | 39 | 14 $\frac{3}{8}$ | 4 | 880.00 | — | — | — | — | — |

Copper Bus[®]

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 [®] Catalog Number | Dimensions [®] | | | List Price \$ | Outdoor Type 3R [®] Catalog Number | Dimensions [®] | | | List Price \$ |
|-----------|---------------|--------------|---|-------------------------|------------------|-------|---------------|---|-------------------------|------------------|-----------------|---------------|
| | | | | Height | Width | Depth | | | Height | Width | Depth | |
| 125 | 20 | 40 | LC2040L1125CU | 24 | 14 $\frac{3}{8}$ | 4 | 449.00 | — | — | — | — | — |
| 200 | 20 | 40 | LC2040L1200CU | 30 | 14 $\frac{3}{8}$ | 4 | 627.00 | — | — | — | — | — |
| 200 | 30 | 40 | LC3040L1200CU | 36 | 14 $\frac{3}{8}$ | 4 | 682.00 | — | — | — | — | — |
| 200 | 40 | 40 | LC4040L1200CU | 39 | 14 $\frac{3}{8}$ | 4 | 933.00 | — | — | — | — | — |
| 225 | 12 | 24 | — | — | — | — | — | LW1224L1225CU | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 728.00 |
| 225 | 42 | 42 | LC4242L1225CU | 42 | 14 $\frac{3}{8}$ | 4 | 990.00 | LW4242L1225CU | 42 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 1499.00 |
| 400 | 42 | 42 | LC042SS [®] | 47 | 20 | 6 | 1925.00 | LW042SR [®] | 47 | 20 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 2499.00 |

Value Pack[®]

| Catalog Number | Load Center | Breakers | List Price \$ |
|----------------|-------------|-----------|---------------|
| LC1224L1125P | LC1224L1125 | (6) MP120 | 255.00 |

① Hub provision only. Closure plate included. Panels through 225A require HS type hub; panels over 225A require HV type hub. See accessories page 1-10. for hub selection.

② If #2/0 feeder is used, order Cat #LX081M neutral lug kit.

③ 300 & 400 Amp load centers have insulated groundable center-mounted neutrals.

④ For flush installation, order accessory Cat #LX077SF separately.

⑤ Dimensions shown are representative of outside box length, width & depth ($\pm \frac{1}{8}$ ") and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1 $\frac{1}{2}$ " additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

⑥ Standard package quantity equal to 1.

⑦ Copper bus load centers are recommended for those applications where the environment may be severe (ie farm and coastal areas).

⑧ Convertible to main breaker by using the following main breaker kits:

100A load centers: MBK100M only.

125A load centers: MBK100M and MBK125M only.

150A load centers: MBK150M only.

200A load centers: MBK150M and MBK200M only.

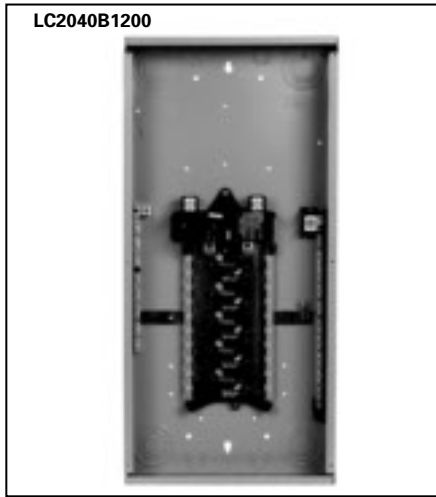
225A load centers: MBK150M, MBK200M, and MBK225M only.

⑨ Value packs include a load center and a mix of branch breakers.

⑩ 100-225A only.

Rock Solid Load Centers

Main Breaker, 1Ø, 22,000 AIC¹⁴



Load Center Short Circuit Current Rating

Murray load centers have UL recognized short circuit current ratings up to 100,000 Amps, when used with appropriate main or feeder (remote or internal) overcurrent devices. Load center ratings are shown below. For load center applications with residential or commercial metering equipment, refer to the appropriate catalog section.

1Ø, main breaker load centers are Underwriter's Laboratories Listed for use with 60/75°C conductors and accept Murray branch circuit breakers which are also UL Listed for use with 60/75°C conductors. Type 3R load centers are furnished with a hub opening closure plate.

Load Center Short Circuit Current Rating

| Load Center Short Circuit Current Rating ² | Load Center Main Rating | Internal or Remote Main or Feeder Circuit Breaker Type |
|---|-------------------------|--|
| 10,000 AIC | Any | Any |
| 22,000 AIC | 100/125A | MP-HT, MQH ³ |
| | 150/200/225A | MD-H, MQH ³ , MPP-HT ⁴ |
| 42,000 AIC | 100/125A | MQL ³ |
| | 150/200/225A | MQL ³ |
| 65,000 AIC | 100/125A | MP-MT, MPP-MT ⁴ |
| | 150/200/225A | MPP-MT ⁴ |
| 100,000 AIC | 100/125A | 100A, 300V AC, Class "T" Fuse ⁵ |
| 100,000 AIC | 150/200/225A | 200A, 300V AC, Class "T" Fuse ⁵ |

Load centers on this page through 225 amp feature a new split neutral with one bonded and one insulated bar. For service entrance applications, install bonding strap, and use both bars for neutral and ground conductors. For non service entrance applications, do not install bonding strap and use insulated bar for neutral conductors and bonded bar for ground conductors.

NEW White trim load centers are now available. Add a "W" to the end of any Rock Solid Load Center (100-225A). Must be ordered in pallet quantities (20-25) and a 3-4 week lead time applies.

12-42 Circuit, 70-400 Amperes

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 [®] Catalog Number | Dimensions [®] | | | List Price \$ | Outdoor Type 3R ² Catalog Number | Dimensions [®] | | | List Price \$ |
|-----------|---------------|--------------|---|-------------------------|------------------|-------|---------------|---|-------------------------|------------------|-----------------|---------------|
| | | | | Height | Width | Depth | | | Height | Width | Depth | |
| 100 | 12 | 24 | LC1224B1100 | 18 | 14 $\frac{3}{8}$ | 4 | 505.00 | LW1224B1100 | 20 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 652.00 |
| 100 | 16 | 32 | — | — | — | — | — | LW1632B1100 | 20 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 673.00 |
| 100 | 20 | 40 | LC2040B1100 | 24 | 14 $\frac{3}{8}$ | 4 | 549.00 | — | — | — | — | — |
| 100 | 24 | 40 | LC2440B1100 | 24 | 14 $\frac{3}{8}$ | 4 | 699.00 | — | — | — | — | — |
| 100 | 30 | 40 | LC3040B1100 | 30 | 14 $\frac{3}{8}$ | 4 | 768.00 | — | — | — | — | — |
| 150 | 16 | 32 | LC1632B1150 | 24 | 14 $\frac{3}{8}$ | 4 | 889.00 | — | — | — | — | — |
| 150 | 20 | 40 | LC2040B1150 | 30 | 14 $\frac{3}{8}$ | 4 | 990.00 | LW2040B1150 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 1154.00 |
| 150 | 24 | 40 | LC2440B1150 | 30 | 14 $\frac{3}{8}$ | 4 | 1040.00 | — | — | — | — | — |
| 150 | 30 | 40 | LC3040B1150 | 36 | 14 $\frac{3}{8}$ | 4 | 1116.00 | — | — | — | — | — |
| 200 | 12 | 24 | — | — | — | — | — | LW1224B1200 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 966.00 |
| 200 | 16 | 32 | LC1632B1200 | 30 | 14 $\frac{3}{8}$ | 4 | 889.00 | — | — | — | — | — |
| 200 | 20 | 40 | LC2040B1200 | 30 | 14 $\frac{3}{8}$ | 4 | 990.00 | LW2040B1200 | 29 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 1154.00 |
| 200 | 24 | 40 | LC2440B1200 | 30 | 14 $\frac{3}{8}$ | 4 | 1040.00 | — | — | — | — | — |
| 200 | 30 | 40 | LC3040B1200 | 36 | 14 $\frac{3}{8}$ | 4 | 1210.00 | LW3040B1200 | 38 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 1465.00 |
| 200 | 40 | 40 | LC4040B1200 | 39 | 14 $\frac{3}{8}$ | 4 | 1403.00 | LW4040B1200 | 38 | 14 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 1680.00 |

Copper Bus¹⁶

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 [®] Catalog Number | Dimensions [®] | | | List Price \$ |
|-----------|---------------|--------------|---|-------------------------|------------------|-------|---------------|
| | | | | Height | Width | Depth | |
| 100 | 20 | 40 | LC2040B1100CU | 24 | 14 $\frac{3}{8}$ | 4 | 584.00 |
| 200 | 20 | 40 | LC2040B1200CU | 30 | 14 $\frac{3}{8}$ | 4 | 1050.00 |
| 200 | 30 | 40 | LC3040B1200CU | 36 | 14 $\frac{3}{8}$ | 4 | 1280.00 |
| 200 | 40 | 40 | LC4040B1200CU | 39 | 14 $\frac{3}{8}$ | 4 | 1486.00 |
| 400 | 30 | 40 | LC330SS ¹⁷ | 47 | 20 | 6 | 2820.00 |
| 400 | 42 | 42 | LC442SS ¹⁸ | 58 | 20 | 6 | 6483.00 |

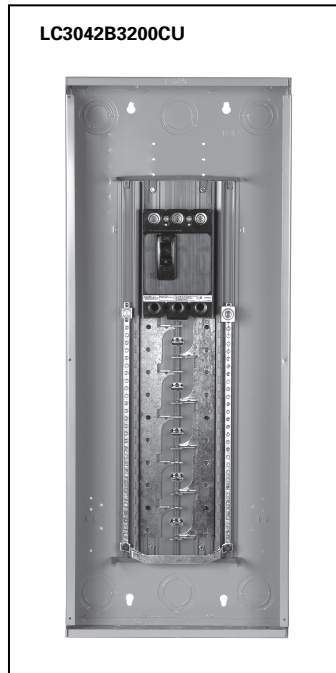
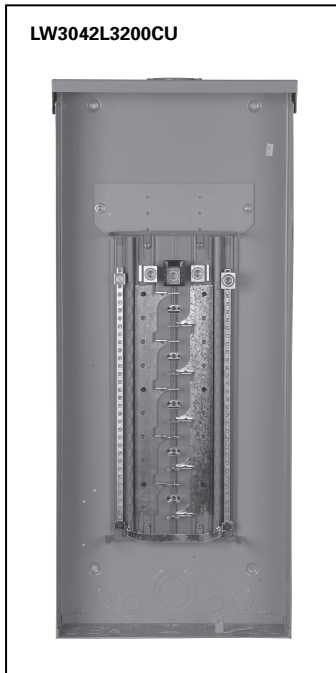
Value Pack¹⁹

| Catalog Number | Load Center | Breakers | List Price \$ |
|----------------|-------------|-------------------------|---------------|
| LC2040B1100P | LC2040B1100 | (6) MP120 | 549.00 |
| LC2040B1200P | LC2040B1200 | (1) MP23020, (2) MP2020 | 990.00 |
| LC3040B1200P | LC3040B1200 | (6) MP120, (2) MP230 | 1210.00 |
| LC4040B1200P | LC4040B1200 | (8) MP120, (2) MP230 | 1403.00 |

¹ Remote Only
² This information is based on use of 10,000 AIC rated branch circuit breakers in load center (MP-T, MH-T, MP-GT, MG). Most series ratings exclude MH-T above 40 Amp. Consult device wiring diagram for specific data.
³ Types MQH & MQL may be mounted internal in 150-225 amp 3Ø main breaker load centers.
⁴ 300 & 400 Amp load centers have insulated groundable center-mounted neutrals.
⁵ Not Applicable
⁶ Not Applicable
⁷ Hub provision only. Closure plate included. Panels through 225A require HS type hub; panels over 225A require HV type hub.
⁸ For flush installation, order accessory Cat #LX077SF separately.
⁹ Dual main breaker provisions. Has factory installed 200 amp MD-TR style main breaker with provisions for second MD-TR main breaker up to 200 amps to feed sub-panel or other large loads.
¹⁰ Dimensions shown are representative of outside box length, width & depth ($\pm\frac{1}{8}$ ") and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1 $\frac{1}{2}$ " additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.
¹¹ Copper bus load centers are recommended for those applications where the environment may be severe (ie farm and coastal areas).
¹² Standard package quantity equal to 1.
¹³ Value packs include a load center and a mix of branch breakers.
¹⁴ 100-225A only.

Load Centers

3Ø – 10,000AIC, 4-Wire 208Y/120V AC, 240/120VAC^④
or 3-Wire 240V AC, Insulated Groundable Neutral



- UL Listed
- Insulated, Groundable Neutrals
- Suitable for use as service entrance equipment when either of the following conditions are met:
 - 18-1" positions max: if not more than 6 disconnecting means are used, and if not used as a lighting and appliance panelboard
 - 100A max: if a single backfed main breaker is used
- Type 3R load centers are provided with a closure plate. Panels through 225A use HS type hub, panels over 225A use HV type hub.

Load Center Short Circuit Current Rating

| Load Center Short Circuit Current Rating ^② | Load Center Main Rating | Internal or Remote Main or Feeder Circuit Breaker Type |
|---|-------------------------|--|
| 10,000 AIC | Any | Any |
| 22,000 AIC | 100/125A | MP-HT, MQH ^① |
| | 150/200/225A | MD-H, MQH ^{②③} , MPP-HT ^① |
| 42,000 AIC | 100/125A | MQL ^① |
| | 150/200/225A | MQL ^{②③} |
| 65,000 AIC | 100/125A | MP-MT, MPP-MT ^① |
| | 150/200/225A | MPP-MT ^① |
| 100,000 AIC | 100/125A | 100A, 300V AC, Class "T" Fuse ^① |
| 100,000 AIC | 150/200/225A | 200A, 300V AC, Class "T" Fuse ^① |

Main Lug 3Ø Load Centers^②

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 Catalog No. | Dimensions ^③ | | | KO Fig. | List Price \$ | Outdoor Type 3R Catalog No. | Dimensions ^③ | | | KO Fig. | List Price \$ |
|-----------|---------------|--------------|---------------------------|-------------------------|---------------------------------|--------------------------------|---------|---------------|-----------------------------|-------------------------|--------------------------------|--------------------------------|---------|---------------|
| | | | | Height | Width | Depth | | | | Height | Width | Depth | | |
| 125 | 12 | 24 | LC1224L3125CU | 21 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 388.00 | LW1224L3125CU | 22 | 14 ¹ / ₄ | 3 ¹ / ₁₆ | 9 | 526.00 |
| 150 | 18 | 36 | LC1836L3150CU | 24 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 540.00 | LW1836L3150CU | 25 | 14 ¹ / ₄ | 3 ¹ / ₁₆ | 9 | 687.00 |
| 150 | 24 | 42 | LC2442L3150CU | 30 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 677.00 | — | — | — | — | — | |
| 200 | 18 | 36 | LC1836L3200CU | 30 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 640.00 | — | — | — | — | — | |
| 200 | 30 | 42 | LC3042L3200CU | 36 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 742.00 | LW3042L3200CU | 34 | 14 ¹ / ₄ | 3 ¹ / ₁₆ | 9 | 906.00 |
| 225 | 42 | 42 | LC4242L3225CU | 42 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 1047.00 | — | — | — | — | — | |
| 400 | 42 | 42 | LP042SS | 47 | 20 | 6 | 4 | 2025.00 | — | — | — | — | — | |

Main Breaker 3Ø Load Centers

| Amps Max. | Breaker Type | No. of Spaces | Max. Circuit | Indoor Type 1 Catalog No. | Dimensions ^③ | | | KO Fig. | List Price \$ | Outdoor Type 3R Catalog No. | Dimensions ^③ | | | KO Fig. | List Price \$ |
|-----------|--------------|---------------|--------------|---------------------------|-------------------------|---------------------------------|--------------------------------|---------|---------------|-----------------------------|-------------------------|--------------------------------|--------------------------------|---------|---------------|
| | | | | | Height | Width | Depth | | | | Height | Width | Depth | | |
| 100 | MP-T | 12 | 24 | LC1224B3100CU | 21 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 1002.00 | — | — | — | — | — | |
| 100 | MP-T | 18 | 36 | LC1836B3100CU | 24 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 1116.00 | — | — | — | — | — | |
| 150 | MQ | 30 | 42 | LC3042B3150CU | 36 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 2168.00 | — | — | — | — | — | |
| 200 | MQ | 30 | 42 | LC3042B3200CU | 36 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 2168.00 | LW3042B3200CU | 37 | 14 ¹ / ₄ | 3 ¹ / ₁₆ | 9 | 2414.00 |
| 200 | MQ | 42 | 42 | LC4242B3200CU | 42 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 2454.00 | — | — | — | — | — | |
| 225 | MQ | 42 | 42 | LC4242B3225CU | 42 | 14 ³ / ₁₆ | 3 ¹ / ₁₆ | 4 | 2635.00 | — | — | — | — | — | |
| 400 | JXD2 | 42 | 42 | LP442SS | 58 | 20 | 6 | 6 | 6561.00 | LZ442SR | 58 | 20 | 6 | 7450.00 | |

① Remote Only.

② This information is based on use of 10,000 AIC rated branch circuit breakers in load center (MP-T, MH-T, MP-GT, MG, MW). Most series ratings exclude MH-T above 40 Amp. Consult device wiring diagram for specific data.

③ Types MQH & MQL may be mounted internal in 150-225 amp 3Ø main breaker load centers.

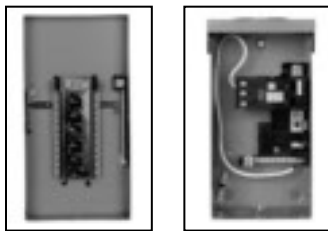
④ 240V Delta systems require 240V rated breakers where line voltage exceeds 120V to ground.

⑤ Dimensions shown are representative of outside box length, width, and depth and do not include allowances for mounting bumps, endwalls, covers, hubs, or hardware protrusions. Dimensions are subject to change.

⑥ 3Ø Main Lug Load Centers may be converted to main breaker by back-feeding a type MP-T or MP-HT breaker and an ECMBR1 hold-down kit (100A max).

Load Centers

Circuit Breaker Enclosures & Small Load Centers



- Ideal for Narrow stud applications
- Eliminated "notching" needed for standard Load Centers
- Outdoor Load Center with factory installed Ground Fault Breaker
- Two extra circuits
- Factory installed feed-through lugs
- Main Breaker or Main Lug panels available

Spa Panels

| Ampere Rating | No. of Spaces | Max. Circuits | Catalog Number | Dimensions [Ⓢ] | | | Enclosure Type | List Price \$ |
|---------------|---------------|---------------|---------------------------|-------------------------|-------|-------|----------------|---------------|
| | | | | Height | Width | Depth | | |
| 125 | 2 | 4 | LW004NRSPA50 [Ⓢ] | 12¼ | 6⅝ | 4¼ | Steel | 656.00 |
| 125 | 2 | 4 | LW004NRSPA60 [Ⓢ] | 12¼ | 6⅝ | 4¼ | Steel | 689.00 |

Renovation Panels - 3 Wire 120/240V AC

| | | | | | | | | |
|-----|----|----|-------------------------|-----|-----|----|---|--------|
| 200 | 24 | 40 | LC024PFR | 30 | 14 | 3⅝ | — | 655.00 |
| 100 | 10 | 20 | LC110DFCGP [Ⓢ] | 14¾ | 12⅝ | 3⅝ | — | 506.00 |

Outdoor[Ⓢ] Trailer Panels - 120/240V AC 208Y/120V AC

| Amps Max | No. of Spaces | Max. Circuits | Indoor Type 1 Catalog No. | Dimensions [Ⓢ] | | | Main Breaker | | List Price \$ |
|----------|---------------|---------------|----------------------------|-------------------------|-------|-------|--------------------|---------|---------------|
| | | | | Height | Width | Depth | | | |
| 100 | 2 | 4 | LW102NL [Ⓢ] | 12½ | 6 | 4¼ | MP2100 | Factory | 428.00 |
| 200 | 4 | 8 | LW204TL [Ⓢ] | 20 | 11½ | 4¼ | MPD2200R | Factory | 987.00 |
| 200 | 4 | 8 | LW004TR [Ⓢ] | 20 | 11½ | 4¼ | MD-T(R), MD-HT(R) | Field | 460.00 |
| 200 | 8 | 16 | LW0816L1200TR [Ⓢ] | 29 | 14¼ | 4½ | MBK150M or MBK200M | Field | 526.00 |

2-8 Circuit, 60-125 Amperes (no door)

| Amps Max. | No. of Spaces | Max. Circuit | Indoor Type 1 Catalog Number [Ⓢ] | Dimensions [Ⓢ] | | | KO Fig. | List Price \$ | Outdoor Type 3R [Ⓢ] Catalog Number | Dimensions [Ⓢ] | | | KO Fig. | List Price \$ |
|-----------|---------------|--------------|---|-------------------------|-------|-------|---------|---------------|---|-------------------------|-------|-------|---------|---------------|
| | | | | Height | Width | Depth | | | | Height | Width | Depth | | |
| 60 | 2 | 4 | LC002GS | 9⅞ | 5⅝ | 2⅞ | 1 | 77.00 | LW002GR [Ⓢ] | 8⅞ | 5⅝ | 4½ | 6 | 152.00 |
| 100 | 3 | 3 | LP003CS | 17⅞ | 7½ | 5⅝ | 1 | 184.00 | — | — | — | — | — | |
| 125 | 2 | 4 | LC002HS [Ⓢ] | 17⅞ | 7⅞ | 4¼ | 1 | 99.00 | LW002HR | 8⅞ | 5⅝ | 4½ | 6 | 193.00 |
| 125 | 4 | 8 | LC004NF ^{ⓈⓈ} | 12⅞ | 6⅞ | 3½ | 2 | 94.00 | — | — | — | — | — | |
| 125 | 4 | 8 | LC004NS ^{ⓈⓈ} | 12⅞ | 6⅞ | 3½ | 2 | 94.00 | LW004NR ^{ⓈⓈ} | 12¼ | 6⅞ | 4¼ | 7 | 166.00 |
| 200 | 2 | 4 | LC004VS | 19¾ | 8½ | 4 | — | 265.00 | LW004VR | 19⅞ | 8⅞ | 4⅞ | — | 459.00 |
| 225 | 2 | 4 | — | — | — | — | — | — | LW002QR [Ⓢ] | 27 | 10⅞ | 5⅞ | 7 | 514.00 |

8-16 Circuit, 125 Amperes (with door)

| | | | | | | | | | | | | | | |
|-----|---|----|------------------------|-----|-----|----|---|--------|----------------------|-----|-----|----|---|--------|
| 125 | 8 | 16 | LC008DF [Ⓢ] | 14¾ | 12⅞ | 3⅞ | 3 | 185.00 | — | — | — | — | — | |
| 125 | 8 | 16 | LC008DS [Ⓢ] | 14¾ | 12⅞ | 3⅞ | 3 | 185.00 | LW008NR [Ⓢ] | 14¾ | 12⅞ | 4⅞ | 8 | 279.00 |
| 125 | 8 | 16 | LC008DFG ^{ⓈⓈ} | 14¾ | 12⅞ | 3⅞ | 3 | 201.00 | — | — | — | — | — | |
| 125 | 8 | 16 | LC008DSG ^{ⓈⓈ} | 14¾ | 12⅞ | 3⅞ | 3 | 201.00 | — | — | — | — | — | |

Enclosed Breakers

| | | | | | | | | | | | | | | |
|-----|---|---|---------|-----|-----|----|---|--------|---------|-----|----|----|---|--------|
| 100 | 2 | 4 | LC100CS | 17⅞ | 7⅞ | 4¼ | — | 325.00 | LW100CR | 17⅞ | 7⅞ | 4⅞ | — | 387.00 |
| 200 | 2 | 4 | LC200VS | 19¾ | 8½ | 4 | — | 763.00 | LW200VR | 19⅞ | 8⅞ | 4⅞ | — | 958.00 |
| 225 | 3 | 3 | LW903QR | 27 | 10⅞ | 5⅞ | — | 565.00 | — | — | — | — | — | |

Ⓢ Hub provision only. Closure plate included. Panels through 225A require HS type hub.

Ⓢ Cover type is specified by character in 7th (usually last) position, as follows:

- S = Surface
- F = Flush
- C = Combination Surface/Flush

Ⓢ Dimensions shown are representative of outside box length, width & depth (±¼") and do not include allowance for mounting bumps, endwalls, hubs or hardware protrusions. Allow approximately 1¼" additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

Ⓢ Use of 60A GFCI requires use of 75°C copper wire.

Ⓢ Use neutral lug kit ECLK1 or ECLK2 as required.

Ⓢ Panel includes factory-installed ground bar.

Ⓢ Maximum breaker 100A.

Ⓢ LW004NRSPA50 is provided with a factory installed, 2-pole 50 Amp GFCI breaker. LW004NRSPA60 is provided with a factory installed, 2-pole 60 Amp GFCI breaker.

Ⓢ Accepts type MQ breakers.

Ⓢ For service entrance use only 200A max. main breaker. Main breaker must be field added.

Ⓢ LW102NL shipped with ECHS125 hub instead of closure plate. LW204TL shipped with ECHS200 hub instead of closure plate.

Ⓢ Two MP1125 and one MP230 provided.

Ⓢ 50 Amp, 2-pole GFCI breaker installed.

Ⓢ 60 Amp, 2-pole GFCI breaker installed.

AC Disconnects

1ø, NEMA 3R Rated



Steel AC Disconnects^{①②}

| Ampere Rating | Disconnect Type | Catalog Number | Horse Power Rating | Dimensions | | | List Price \$ | Pallet Qty.① |
|---------------|----------------------|----------------|--------------------|------------|-------|-------|---------------|--------------|
| | | | | Height | Width | Depth | | |
| 30 | Fused Pullout | WF2030 | 3 | 7¼ | 5 | 2½ | 154.00 | 360 |
| 60 | Fused Pullout | WF2060 | 10 | 9 | 5 | 2½ | 154.00 | 360 |
| 60 | Non-fused Pullout | WN2060 | 10 | 7¼ | 5 | 2½ | 154.00 | 360 |
| 60 | Non-automatic Switch | WNAS2060 | 10 | 7¼ | 5 | 2½ | 184.00 | 360 |

Plastic AC Disconnects^{①②}

| Ampere Rating | Disconnect Type | Catalog Number | Horse Power Rating | Dimensions | | | List Price \$ | Pallet Qty.① |
|---------------|---------------------------------|----------------|--------------------|------------|-------|-------|---------------|--------------|
| | | | | Height | Width | Depth | | |
| 30 | Fused Pullout | WF2030PL | 3 | 7¼ | 5 | 2½ | 235.00 | 216 |
| 60 | Fused Pullout | WF2060PL | 10 | 7¼ | 5 | 2½ | 235.00 | 216 |
| 60 | Non-fused Pullout | WN2060PL | 10 | 7¼ | 5 | 2½ | 214.00 | 360 |
| 60 | NEW Non-Fused Pullout | WN2060PLX | 10 | 8 | 5¾ | 3½ | 224.00 | 288 |
| 60 | NEW Non-automatic switch | WNAS2060PL | 10 | 7¼ | 5 | 2½ | 360.00 | 360 |

Steel AC Disconnects with 15 Amp GFCI Receptacle^{①②}

| Ampere Rating | Disconnect Type | Catalog Number | Horse Power Rating | Dimensions | | | List Price \$ | Pallet Qty.① |
|---------------|----------------------|----------------|--------------------|------------|-------|-------|---------------|--------------|
| | | | | Height | Width | Depth | | |
| 30 | Fused Pullout | WF2030GFCI | 3 | 9 | 6⅞ | 5⅝ | 500.00 | 112 |
| 60 | Fused Pullout | WF2060GFCI | 10 | 9 | 6⅞ | 5⅝ | 500.00 | 112 |
| 60 | Non-fused Pullout | WN2060GFCI | 10 | 7⅞ | 5¾ | 5⅝ | 463.00 | 144 |
| 60 | Non-automatic Switch | WNAS2060GFCI | 10 | 7⅞ | 5¾ | 5⅝ | 500.00 | 144 |

Wire Range Table

| Connector | Copper | | Aluminum | |
|-------------|--------|----------|----------|----------|
| | Solid | Stranded | Solid | Stranded |
| Line | #14-8 | #14-3 | #12-8 | #12-3 |
| Load | #14-8 | #14-3 | #12-8 | #12-3 |
| Neutral | #12-8 | #12-2 | #12-8 | #12-2 |
| Equip. Grnd | #12-8 | #12-2 | #12-8 | #12-2 |

① Add a "BP" to the end of the catalog number to order in pallet quantities, example: WN2060BP.

② Accepts Class H Fuse

Load Centers

Load Center Replacement and OEM Interiors

1ø: Small Circuit Main Lug Interiors

| Amps | Catalog Number ^① | Circuits | Spaces | Dimensions | | List Price \$ |
|------|-----------------------------|----------|--------|------------|-------|---------------|
| | | | | Height | Width | |
| 60 | I0204ML1125 | 2 | 2 | 5.06 | 2.12 | 33.50 |
| 60 | I0303ML3100 | 3 | 3 | 5.06 | 3.12 | 63.00 |
| 125 | I0408ML1125 | 4 | 8 | 4.51 | 6.61 | 61.00 |
| 125 | I0816ML1125CU | 8 | 16 | 6.19 | 6.81 | 116.00 |
| 125 | I0816ML1125CUSP | 8 | 16 | 6.19 | 6.81 | 116.00 |
| 200 | I0202L1200 | 4 | 4 | 3.88 | 7.13 | 71.00 |

Small circuit Interiors

The small circuit interiors are ideal for OEM applications requiring only a few circuits. They can also be purchased as replacement items for:

- I0204ML1125 – Interior for LC100CS, LW100CR
- I0303ML3100 – Interior for LP003CS
- I0408ML1125 – Interior for L(C,W)004N(F,S,R)
- I0816ML1125CU – Interior for L(C,W)008D(F,S,R)
- I0202L1200 – Interior for JC0202 Meter Mains

Ultimate 1ø: High Circuit Main Lug Interiors with Neutral Bars^③

| Amps | Catalog Number ^① | Circuits | Spaces | Dimensions | | List Price \$ |
|------|-----------------------------|----------|--------|------------|-------|---------------|
| | | | | Height | Width | |
| 125 | I1224L1125CU | 12 | 24 | 10.80 | 9.80 | 140.00 |
| 125 | I1624L1125CU | 16 | 24 | 12.80 | 9.80 | 164.00 |
| 125 | I2424L1125 | 24 | 24 | 16.80 | 9.80 | 187.00 |
| 125 | I3040L1125CU | 30 | 40 | 20.80 | 9.80 | 210.00 |
| 200 | I0816L1200CT ^② | 8 | 16 | 10.80 | 9.80 | 175.00 |
| 200 | I1224L1200CU | 12 | 24 | 10.80 | 9.80 | 200.00 |
| 200 | I2040L1200CU | 20 | 40 | 14.80 | 9.80 | 245.00 |
| 200 | I3040L1200CU | 30 | 40 | 20.80 | 9.80 | 364.00 |
| 200 | I4040L1200CU | 40 | 40 | 24.80 | 9.80 | 400.00 |
| 225 | I4242L1225CU | 42 | 42 | 26.80 | 9.80 | 527.00 |

Rock Solid 1ø: High Circuit Main Lug Interiors (no neutrals)^③

| Amps | Catalog Number ^① | Circuits | Spaces | Dimensions | | List Price \$ |
|------|-----------------------------|----------|--------|------------|-------|---------------|
| | | | | Height | Width | |
| 125 | IR1224L1125 | 12 | 24 | 10.80 | 7.40 | 105.00 |
| 125 | IR1632L1125 | 16 | 32 | 12.80 | 7.40 | 130.00 |
| 125 | IR2040L1125CU | 20 | 40 | 14.80 | 7.40 | 153.00 |
| 125 | IR3040L1125 | 30 | 40 | 20.80 | 7.40 | 176.00 |
| 200 | IR0816L1200TR ^② | 8 | 16 | 10.80 | 7.40 | 140.00 |
| 200 | IR2040L1200CU | 20 | 40 | 14.80 | 7.40 | 200.00 |
| 200 | IR2440L1200 | 24 | 40 | 16.80 | 7.40 | 223.00 |
| 200 | IR3040L1200CU | 30 | 40 | 20.80 | 7.40 | 245.00 |
| 200 | IR4040L1200CU | 40 | 40 | 24.80 | 7.40 | 317.00 |
| 225 | IR4242L1225CU | 42 | 42 | 26.80 | 7.40 | 409.00 |

Ultimate 1ø: Parallel Lug Interiors with Neutral Bars

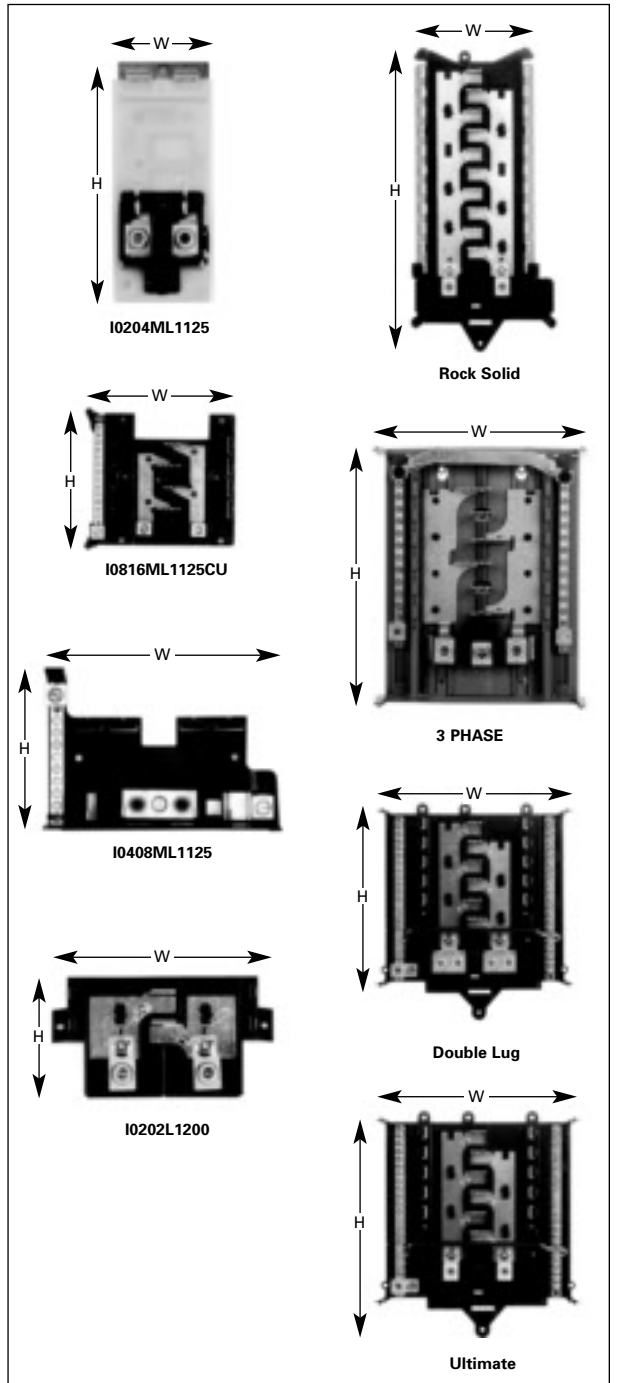
| Amps | Catalog Number ^① | Circuits | Spaces | Dimensions | | List Price \$ |
|------|-----------------------------|----------|--------|------------|-------|---------------|
| | | | | Height | Width | |
| 200 | CTI1224L1125CU | 12 | 24 | 10.80 | 9.80 | 300.00 |
| 200 | CTI2040L1200CU | 20 | 40 | 14.80 | 9.80 | 444.00 |
| 200 | CTI2440L1200CU | 24 | 40 | 16.80 | 9.80 | 469.00 |
| 200 | CTI3040L1200CU | 30 | 40 | 20.80 | 9.80 | 527.00 |

3ø: Main Lug Interiors

| Amps | Catalog Number ^① | Circuits | Spaces | Dimensions | | List Price \$ |
|------|-----------------------------|----------|--------|------------|-------|---------------|
| | | | | Height | Width | |
| 125 | I1224L3125CU | 12 | 24 | 10.50 | 8.70 | 270.00 |
| 200 | I1224L3200CU | 12 | 24 | 10.50 | 8.70 | 293.00 |
| 200 | I1836L3200CU | 18 | 36 | 13.50 | 8.70 | 351.00 |
| 200 | I2442L3200CU | 24 | 42 | 16.50 | 8.70 | 409.00 |
| 200 | I3042L3200CU | 30 | 42 | 19.50 | 8.70 | 550.00 |
| 225 | I4242L3225CU | 42 | 42 | 25.50 | 8.70 | 644.00 |

Lug Data

| Interior | Amperage | Wire range | Torque |
|--------------------|----------|-------------------|----------------|
| I0204ML1060 | 60 | 2/0 - 4 AWG | 45 lb. - ins. |
| I0303ML3100 | 100 | 2/0 - 4 AWG | 45 lb. - ins. |
| I1224ML1100 | 100 | 2/0 - 4 AWG | 45 lb. - ins. |
| I0408ML1125 | 125 | 2/0 - 4 AWG | 45 lb. - ins. |
| I0816ML1125CU/CUSP | 60 | 2/0 - 4 AWG | 45 lb. - ins. |
| Ultimate | 125 | 2/0 - 4 AWG | 110 lb. - ins. |
| Ultimate | 200/225 | 300 kcmil - 4 AWG | 110 lb. - ins. |
| Rock Solid | 125 | 2/0 - 4 AWG | 110 lb. - ins. |
| Rock Solid | 200/225 | 300 kcmil - 4 AWG | 275 lb. - ins. |
| Three Phase | 125 | 300 kcmil - 6 AWG | 340 lb. - ins. |
| Three Phase | 200/225 | 300 kcmil - 6 AWG | 340 lb. - ins. |



① The letters "CU" in any catalog number represent copper bus bars.

② Convertible to main breaker using the MBK main breaker kits

③ Feed thru lugs provided

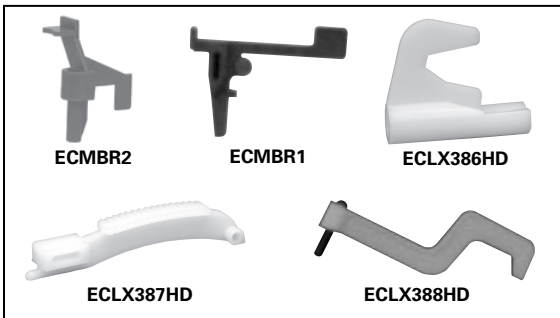
Load Centers

Electriccenter Accessories

Hubs



Backfed Main Breaker Hold Down Kits



Miscellaneous



Main Breaker Kits



Lug Kits

Ground Bars and Insulated Neutral Kits



| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|-------------|---------------|---------------|
| ECHS075 | ¾" Hub | 42.00 | 10 |
| ECHS100 | 1" Hub | 42.00 | 10 |
| ECHS125 | 1½" Hub | 42.00 | 10 |
| ECHS150 | 1½" Hub | 42.00 | 10 |
| ECHS200 | 2" Hub | 73.00 | 10 |
| ECHS250 | 2½" Hub | 116.00 | 10 |

| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|--|---------------|---------------|
| ECMBR2 | For use on MP-T, MP-HT, & MP-MT breakers in Rock Solid Load Centers | 15.40 | 25 |
| ECMBR1 | For use on MP-T, MP-HT, & MP-MT breakers in 2-8 circuit Load Centers | 7.00 | 25 |
| ECLX378M | For use on MD-T, MD-HT, & MD-MT breakers on old style (pre 2003) load centers (12-42 circuit) | 9.20 | 25 |
| ECLX386HD | For use on MP-T, MP-HT, & MP-MT breakers (15-60A) on old style (pre 2003) load centers (12-42 circuit) | 9.20 | 25 |
| ECLX387HD | For use on MP-T, MP-HT, & MP-MT breakers (70-125A) on old style (pre 2003) load centers (12-42 circuit) | 2.10 | 25 |
| ECLX388HD | For use on MP-T, MP-HT, & MP-MT breakers (100-125A) on old style (pre 2003) load centers (12-42 circuit) | 8.20 | 25 |

| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|--|---------------|---------------|
| ECQFL2 | Door lock for Rock Solid Load Centers | 95.00 | 10 |
| ECLX039M | Door lock for old style (pre 2003) Load Centers | 34.00 | 10 |
| ECQF3 | Filler plate (1") | 15.10 | 10 |
| ECMBF125 | Filler plate for main breaker opening on 100-125A Rock Solid Load Centers. Use two QF3 filler plates for 150-225A load centers | 17.20 | 25 |
| ECLX370FP | Filler plate used opposite of type MD breakers | 8.80 | 25 |
| LX077SF | Flush installation cover for 400A panels | 135.00 | 1 |
| ECTS2 | 6 Cover screws, combination cover | 10.40 | 50 Bags |
| ECSMK1 | Surface mount spacer kit provides ¼" space between load center and wall | 26.50 | 25 |

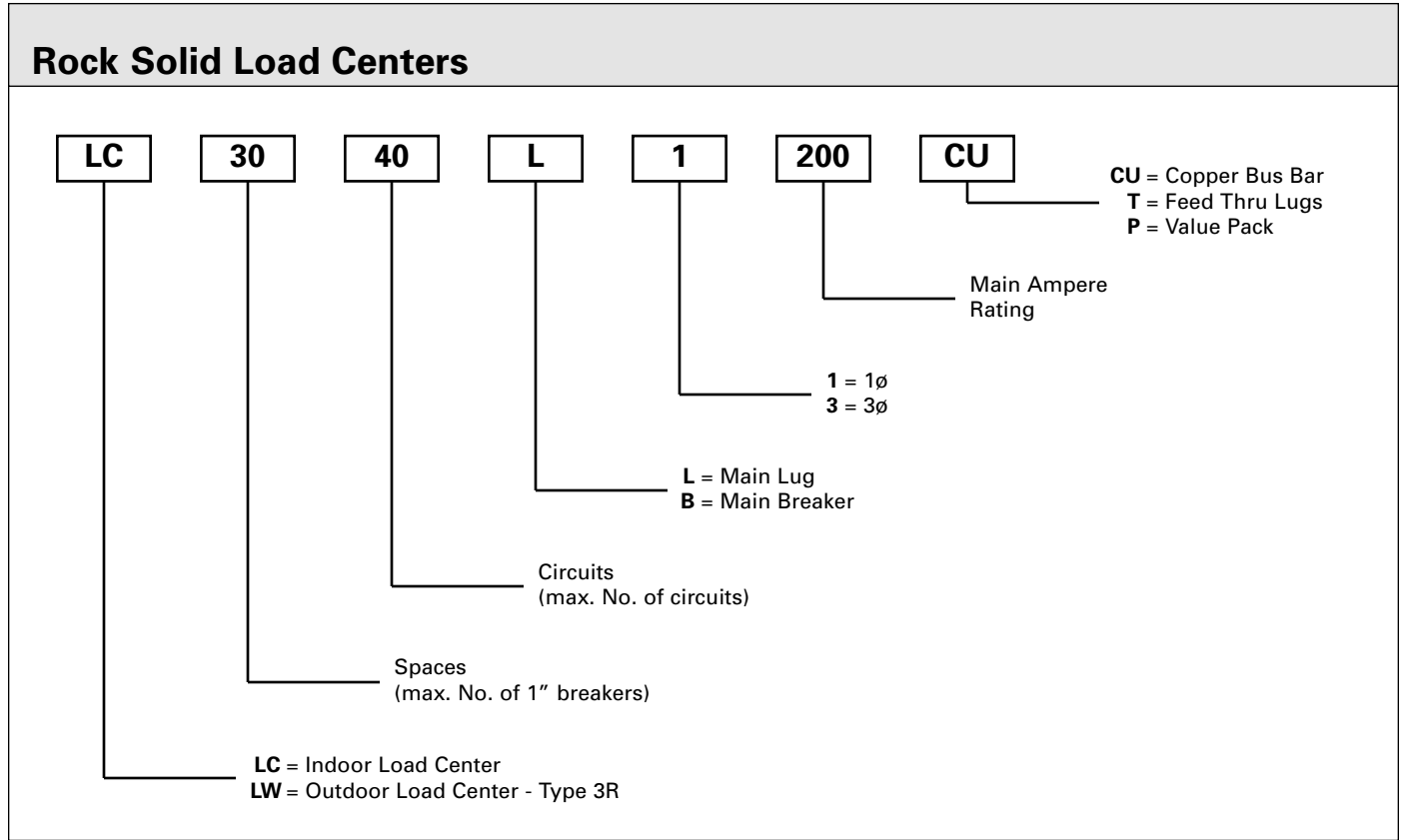
| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|---|---------------|---------------|
| MBK100M | 100A—For use on 100 & 125A Rock Solid Load Centers only | 367.00 | 1 |
| MBK125M | 125A—For use on 125A Rock Solid Load Centers only | 500.00 | 1 |
| MBK150M | 150A—For use on 150, 200, & 225A Rock Solid Load Centers only | 622.00 | 1 |
| MBK200M | 200A—For use on 200 & 225A Rock Solid Load Centers only | 622.00 | 1 |
| MBK225M | 225A—For use on 225A Rock Solid Load Centers only | 622.00 | 1 |

| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|--|---------------|---------------|
| ECLK1 | #1/0 max. lug kit for use on 4-8 circuit devices | 9.30 | 20 |
| ECLK2SC | #2/0 max. lug for 125 amp neutral feeder for 12-42 circuit devices | 22.50 | 50 |
| ECLX384M | CB enclosure ground lug | 18.80 | 20 |

| Catalog Number | Description | List Price \$ | Pack Quantity |
|----------------|---|---------------|---------------|
| ECLX068M | 4 small terminals—1½" long | 12.50 | 10 |
| ECLX069M | 5 small and 2 large terminals—3" long | 16.60 | 10 |
| ECLX071M | 8 small and 3 large terminals—3½" long | 16.60 | 10 |
| ECLX072M | 11 small and 4 large terminals—4½" long | 18.80 | 10 |
| ECLX073M | 14 small and 5 large terminals—5¼" long | 19.80 | 10 |
| ECLX074M | 17 small and 6 large terminals—7" long | 27.00 | 10 |
| ECLX075M | 21 small and 7 large terminals—8" long | 30.50 | 10 |
| ECINSNB27 | Insulated neutral bar with 27 positions and a 2/0 lug | 53.00 | 10 |
| ECINSNB32 | Insulated neutral bar with 32 positions and a 2/0 lug | 57.00 | 10 |
| ECINSNB33 | Insulated neutral bar with 33 positions and a 300 MCM lug | 58.00 | 10 |
| ECINSNB41 | Insulated neutral bar with 41 positions and a 300 MCM lug | 69.00 | 10 |
| ECINSNB43 | Insulated neutral bar with 43 positions and a 2/0 lug | 71.00 | 10 |

Load Centers

Catalog Number Logic



Lug Data

| Amps | Phase | Wire Range ^① | | Amps | Phase | Wire Range ^① | |
|--------------------------------|----------|-------------------------|---------------------------|---------------------|---------------------|-------------------------|---|
| | | Main Lug Load Centers | Main Breaker Load Centers | | | Main Lug Load Centers | Main Breaker Load Centers |
| 60 | 1 ϕ | 14-4 | — | 200 | 1 ϕ | 4-250 kcmil | 4-250 kcmil |
| 100 | 1 ϕ | — | 3-1/0 | 200 | 3 ϕ | 4-250 kcmil | 4-250 kcmil |
| | 3 ϕ | — | 8-1/0 | | | | |
| 125 (4 CKT) (6 CKT & Above) | 1 ϕ | 14-2/0 | — | 225 | 1 ϕ | 4-300 kcmil | 4-300 kcmil |
| | 3 ϕ | 4-2/0 | 4-2/0 | 400 (24 and 42 CKT) | 3 ϕ | 4-300 kcmil | 4-300 kcmil |
| 150 | 1 ϕ | 6-2/0 | — | | 400 (24 and 42 CKT) | 1 ϕ | (1)3/0-500 kcmil ^② (2)3/0-250 kcmil |
| | 3 ϕ | 1/0-4/0 | 4-250 kcmil | 400 (30 CKT Only) | | 1 ϕ | — |
| 150 | 1 ϕ | 4-3/0 | 2/0-300 kcmil | | 400 (24 and 42 CKT) | 3 ϕ | (1)3/0-500 kcmil ^② (2)3/0-250 kcmil |
| | 3 ϕ | — | — | | | | |

① All lugs are rated for Cu or Al wire. Wire range shown is maximum allowable for bending space provided. Lug may accommodate larger wire. Refer to National Electric Code for specific wire size requirements.

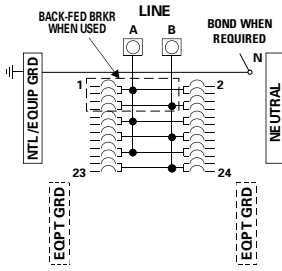
② 500 kcmil must be top side entry.

Wiring Diagrams

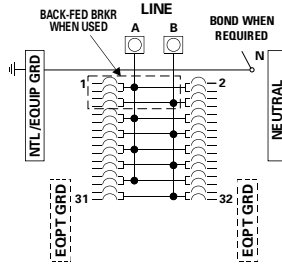
Rock Solid Load Centers

Main Lug, 1Ø

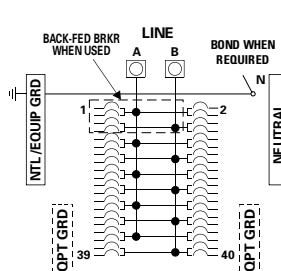
LC1224L1125
LW1224L1125



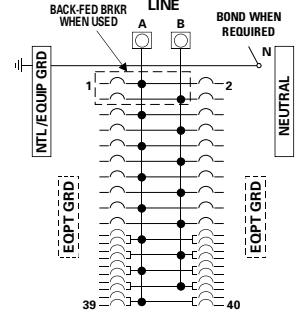
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LW1632L1125



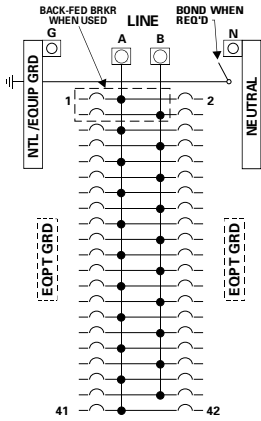
LC2040L1125
LC2040L1125CU
LW2040L1125



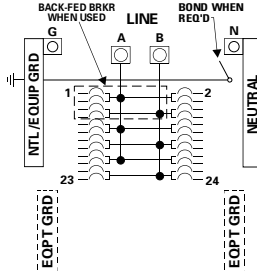
LC3040L1125



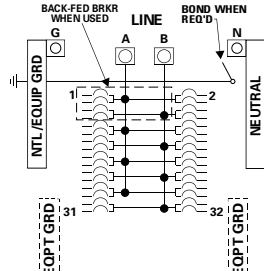
LC4242L1225CU
LW4242L1225CU



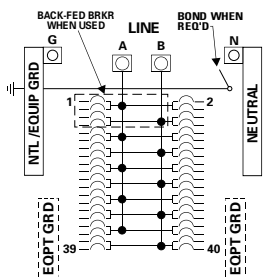
LW1224L1200



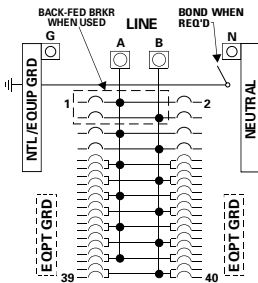
LC1632L1150



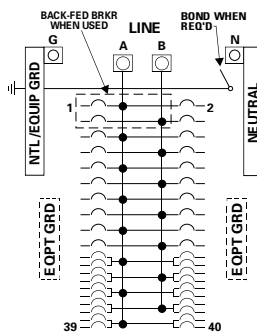
LC2040L1200
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LW2040L1200



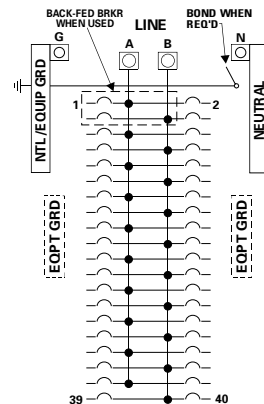
LC2440L1150
LC2440L1200



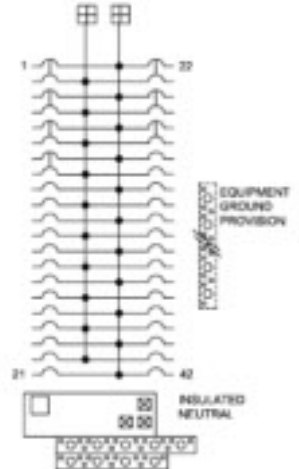
LC3040L1200
LC3040L1200CU
LW3040L1200



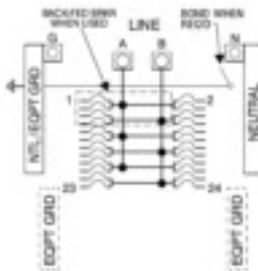
LC4040L1200
LC4040L1200CU



LC042SS
LW042SR



LW1224L1225CU

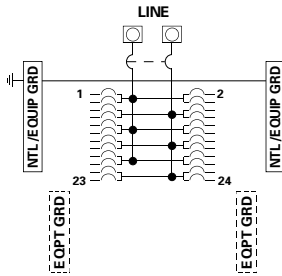


Wiring Diagrams

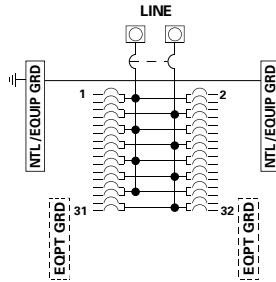
Rock Solid Load Centers

Main Breaker, 1Ø

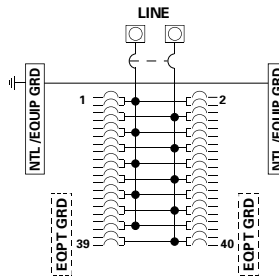
LC1224B1100
LW1224B1100



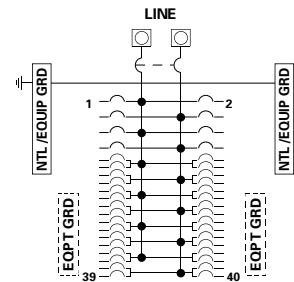
LW1632B1100



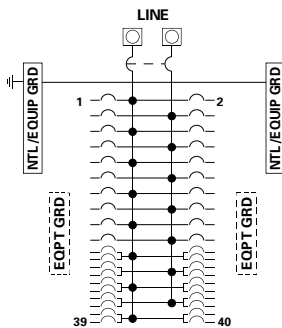
LC2040B1100
LC2040B1100CU



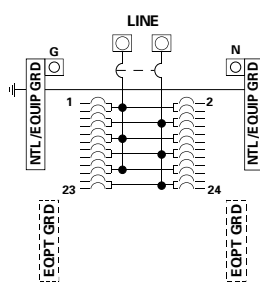
LC2440B1100



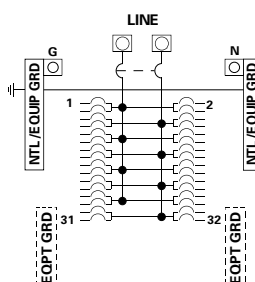
LC3040B1100



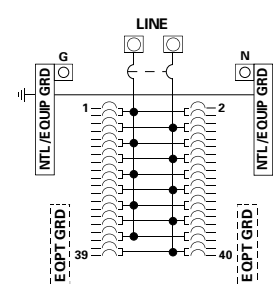
LW1224B1200



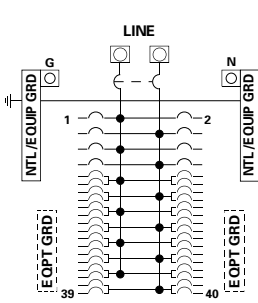
LC1632B1150
LC1632B1200



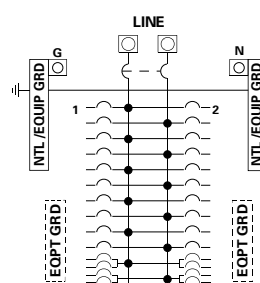
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LC2040B1200
LC2040B1200CU
LW2040B1150
LW2040B1200



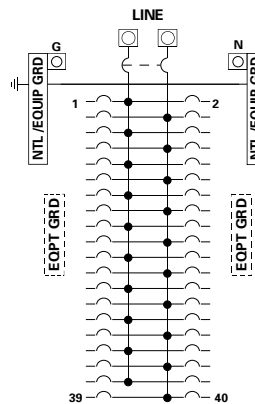
LC2440B1150
LC2440B1200



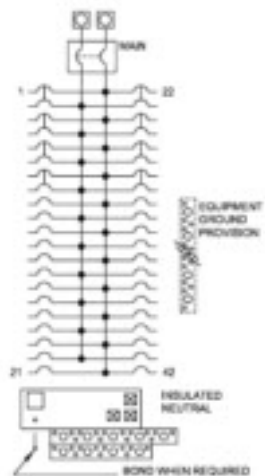
LC3040B1150
LC3040B1200
LC3040B1200CU
LW3040B1200



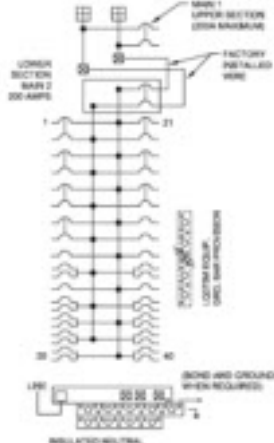
LC4040B1200
LC4040B1200CU
LW4040B1200



LC442SS



LC330SS

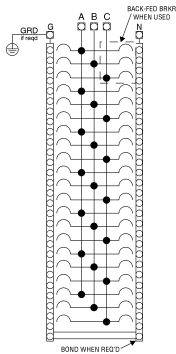


Wiring Diagrams

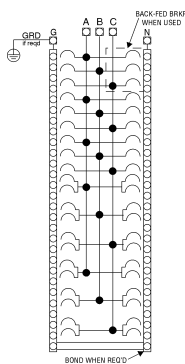
Main Lug & Main Breaker 3Ø

Main Lug, 3Ø

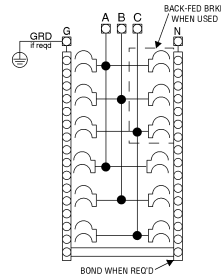
LC4242L



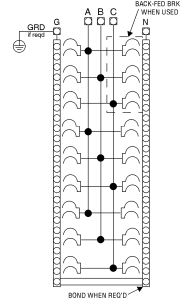
LW3042L



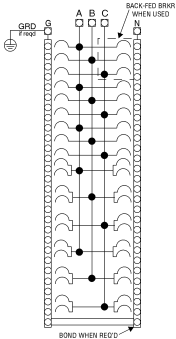
LC1224L



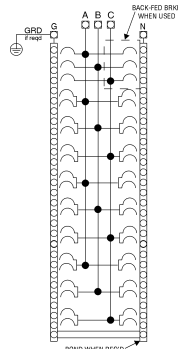
LW1836L



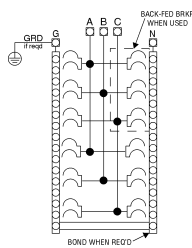
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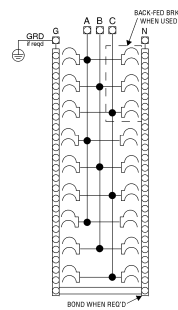
LC2442L



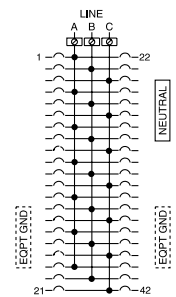
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LC1836L

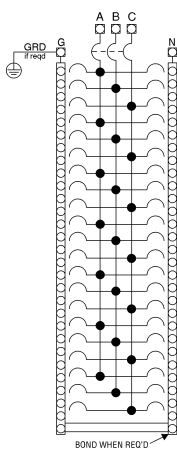


LP042S

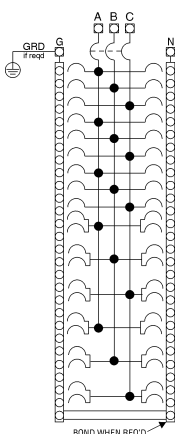


Main Breaker, 3Ø

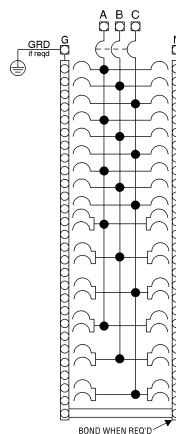
LC4242B



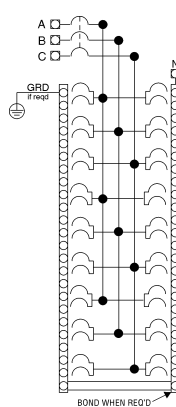
LC3042B



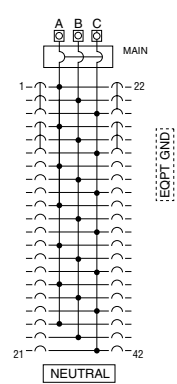
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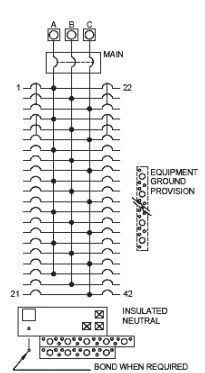
LC1836B



LP442S



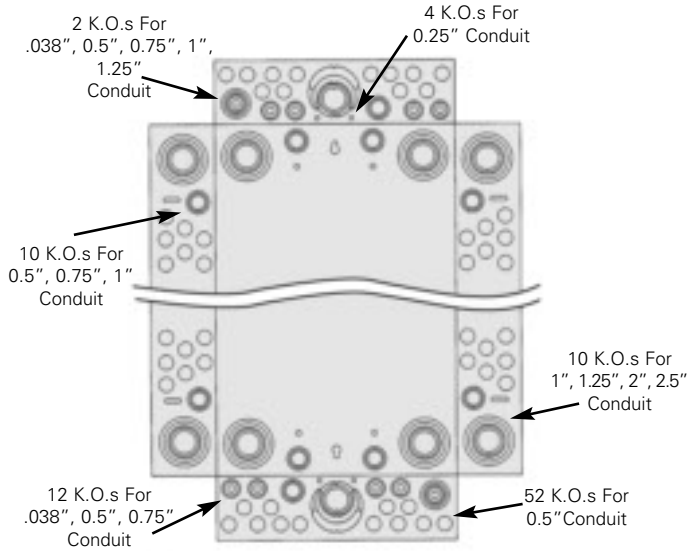
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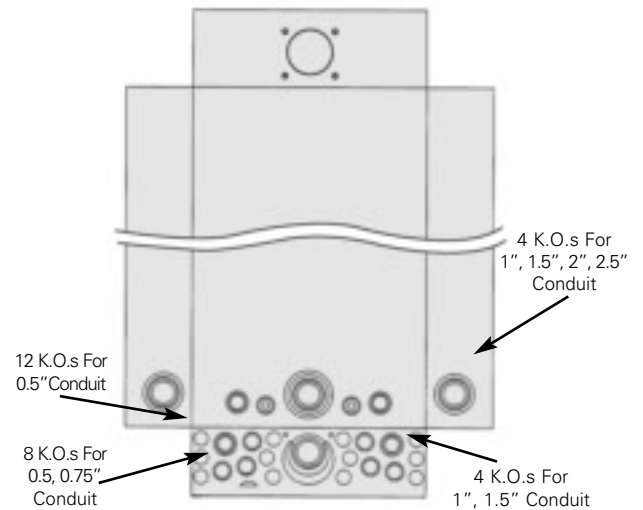
Knockout Diagrams

Rock Solid Load Centers

Indoor Main Breaker and Main Lug Enclosures



Outdoor Main Breaker and Main Lug Enclosures



K.O. dimensions refer to conduit trade size, not actual diameter.

Figure 1

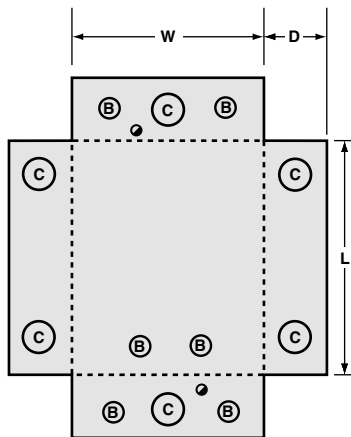


Figure 2

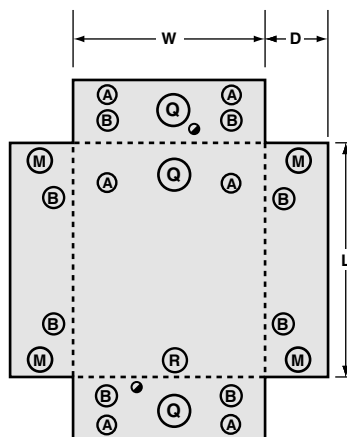


Figure 3

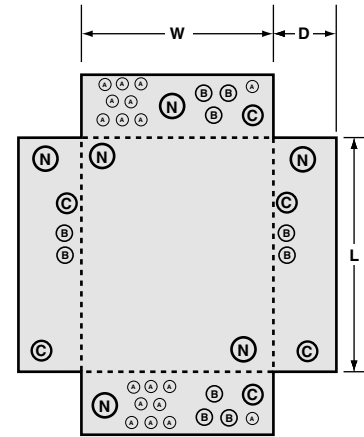
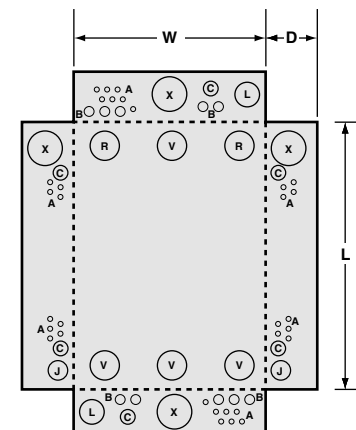


Figure 4



Knockout Code—Conduit Sizes

| | |
|---------------------|-----------------------|
| ● = ¼ | S = 1, 1¼, 1½, 2, 2½ |
| A = ½ | T = 1¼ |
| B = ½, ¾ | U = 1¼, 1½ |
| C = ½, ¾, 1 | V = 1¼, 1½, 2 |
| D = ½, 1 | W = 1¼, 2 |
| E = ½, ¾, 1, 1¼ | X = 1¼, 1½, 2, 2½ |
| F = ½, 1¼, 1½ | Y = 1½, 2 |
| G = ¾ | Z = 1½, 2, 2½ |
| H = ¾, 1 | AA = 1½, 2, 2½, 3 |
| J = ¾, 1, 1¼ | BB = 1½, 2, 2½, 3, 3½ |
| K = ¾, 1¼ | CC = 2, 2½, 3, 3½ |
| L = ¾, ¾, 1, 1¼, 1½ | EE = 2, 2½, 3 |
| M = ¾, 1, 1¼, 1½ | FF = 2½, 3 |
| N = ¾, 1, 1¼, 1½, 2 | GG = 2½, 3, 3½ |
| P = 1, 1¼ | HH = 2½, 3, 3½, 4 |
| Q = 1, 1¼, 1½ | JJ = 3½, 4 |
| R = 1, 1¼, 1½, 2 | LL = 3 |
| | VV = 2 |

Knockout Diagrams

Indoor and Outdoor Enclosures

Figure 5

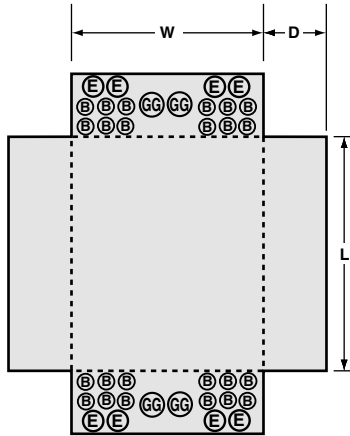


Figure 6

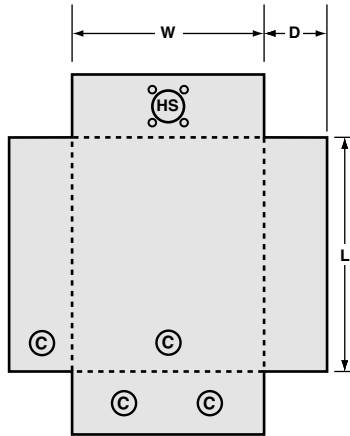


Figure 7

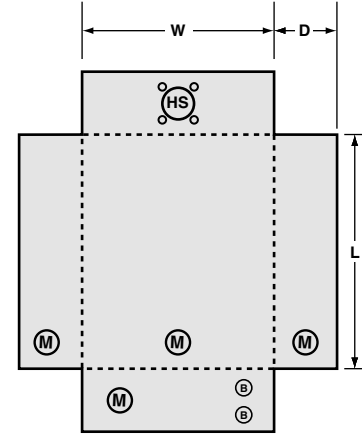


Figure 8

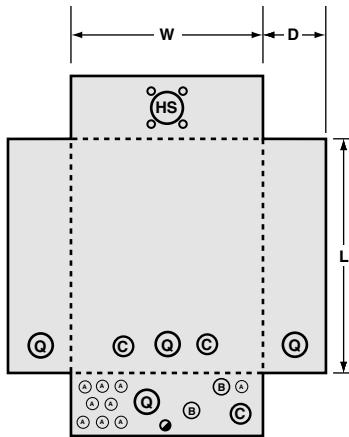


Figure 9

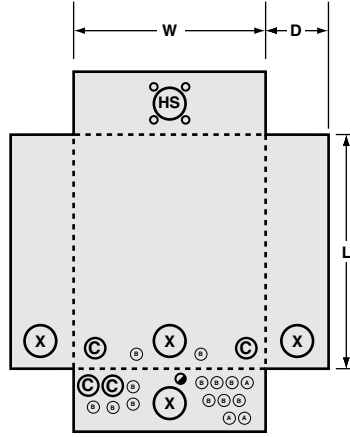


Figure 10

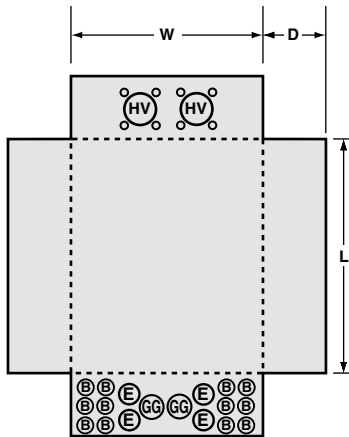
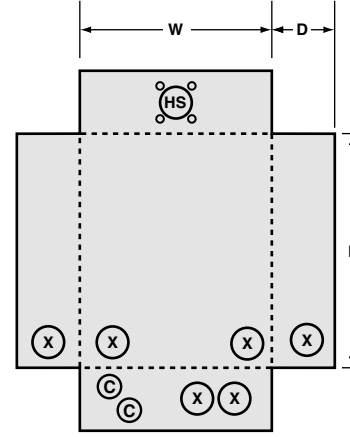


Figure 11



Knockout Code—Conduit Sizes

| | |
|-------------------------------|--------------------------------|
| ● = 1/4 | S = 1, 1 1/4, 1 1/2, 2, 2 1/2 |
| A = 1/2 | T = 1 1/4 |
| B = 3/4, 1 | U = 1 1/4, 1 1/2 |
| C = 1/2, 3/4, 1 | V = 1 1/4, 1 1/2, 2 |
| D = 1/2, 1 | W = 1 1/4, 2 |
| E = 1/2, 3/4, 1, 1 1/4 | X = 1 1/4, 1 1/2, 2, 2 1/2 |
| F = 1/2, 1 1/4, 1 1/2 | Y = 1 1/2, 2 |
| G = 3/4 | Z = 1 1/2, 2, 2 1/2 |
| H = 3/4, 1 | AA = 1 1/2, 2, 2 1/2, 3 |
| J = 3/4, 1, 1 1/4 | BB = 1 1/2, 2, 2 1/2, 3, 3 1/2 |
| K = 3/4, 1 1/4 | CC = 2, 2 1/2, 3, 3 1/2 |
| L = 1/2, 3/4, 1, 1 1/4, 1 1/2 | EE = 2, 2 1/2, 3 |
| M = 3/4, 1, 1 1/4, 1 1/2 | FF = 2 1/2, 3 |
| N = 3/4, 1, 1 1/4, 1 1/2, 2 | GG = 2 1/2, 3, 3 1/2 |
| P = 1, 1 1/4 | HH = 2 1/2, 3, 3 1/2, 4 |
| Q = 1, 1 1/4, 1 1/2 | JJ = 3 1/2, 4 |
| R = 1, 1 1/4, 1 1/2, 2 | LL = 3 |
| | VV = 2 |

Circuit Breakers

Technical Information

Time-Current Characteristic Curves

125 Amp MP Frame, Type MP-T, 1, 2 & 3 Poles

For application and coordination purposes only. Based on 40°C ambient cold start. Connected with 4 feet of rated wire (75°C) per terminal. Tested in open air with current in all poles.

| | | |
|-----------|--------------|---------------|
| Type MP-T | 60 HZ 1-Pole | 120 Volts |
| | 60 HZ 2-Pole | 120/240 Volts |
| | 60 HZ 3-Pole | 240 Volts |

1 Pole Instantaneous Trip Table

| Rating Amperes | Fixed Instantaneous Trip Amperes |
|----------------|----------------------------------|
| 15-20 | 160-210 |
| 25-40 | 350-550 |
| 45-50 | 450-700 |

2 & 3 Pole Instantaneous Trip Table

| Rating Amperes | Fixed Instantaneous Trip Amperes |
|----------------|----------------------------------|
| 15, 25-35 | 350-700 |
| 20 | 450-700 |
| 40 | 350-550 |

Interrupting Rating Symmetrical RMS Amperes

| Breaker Type | 120V | 120/240V | 240V |
|--------------|--------|----------|--------|
| 1-Pole | 10,000 | — | — |
| 2-Pole | — | 10,000 | — |
| 3-Pole | — | — | 10,000 |

Footnotes refer to curve at right.

① Single pole test data at 25°C in accordance with NEMA standards.

0-30 amperes—50 seconds

31-50 amperes—80 seconds

② Sample Instantaneous shown (20 Amp 1, 2 & 3 Pole). For other instantaneous values, see tables above.

Industry and Government Specifications

Murray circuit breakers meet or exceed the latest edition of the following specifications:

Industry

NEMA—Standard #AB1
 UL —Standard #489
 CSA —Standard #C22.1, No. 5.1

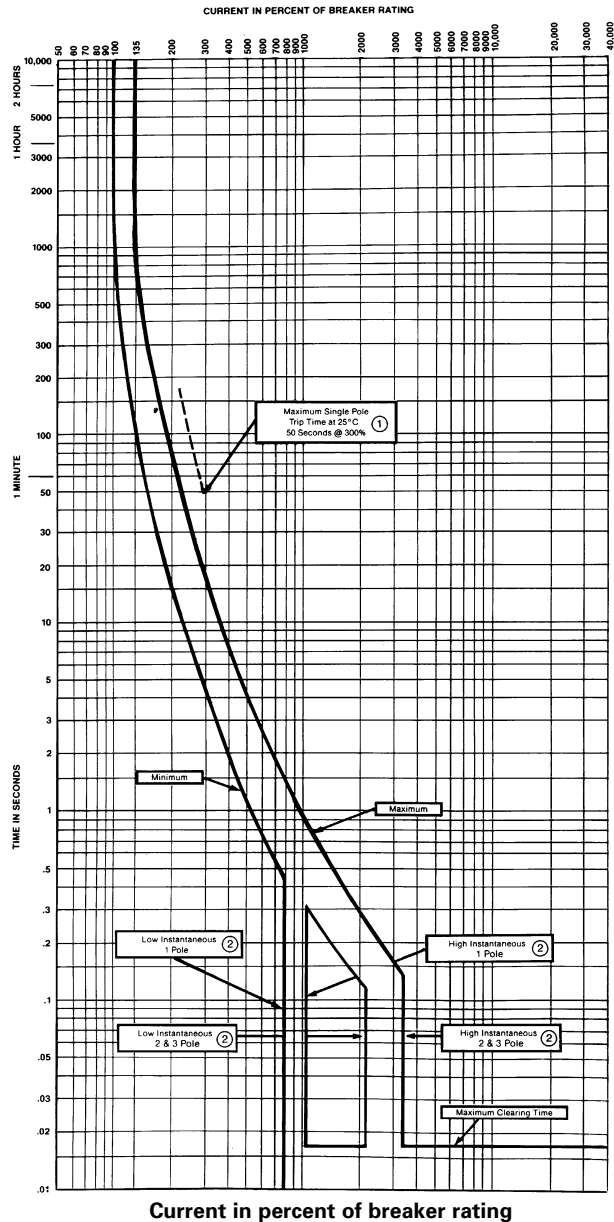
U.S. Government

Standard #W-C-375B

60°C/75°C Ampacity Rating

Murray circuit breakers rated 125A and below are Listed by UL for use with 60°/75°C ampacities. This listing allows use of smaller wire sizes in many applications. Consult NEC Article #310 for application details and limitations.

Murray Time-Current Characteristic Curves 125 AMP MP Frame, Type MP-T 1, 2 & 3 Poles



Circuit Breaker UL Type

| Catalog # Prefix | UL Type* |
|------------------|----------------------------|
| MP(150-200A) | MD-A, MD-H, MD-T, MD-HT |
| MP(15-125A) | MP-T, MP-HT, MP-MT, MG, MW |
| MP(Duplex) | MH-T |
| MP(Triplex) | MH-T |
| MP(GFCI) | MP-GT, MP-HGT |
| MP(AFCI) | MP-AT, MP-HAT |

*UL Type is shown on circuit breaker label.

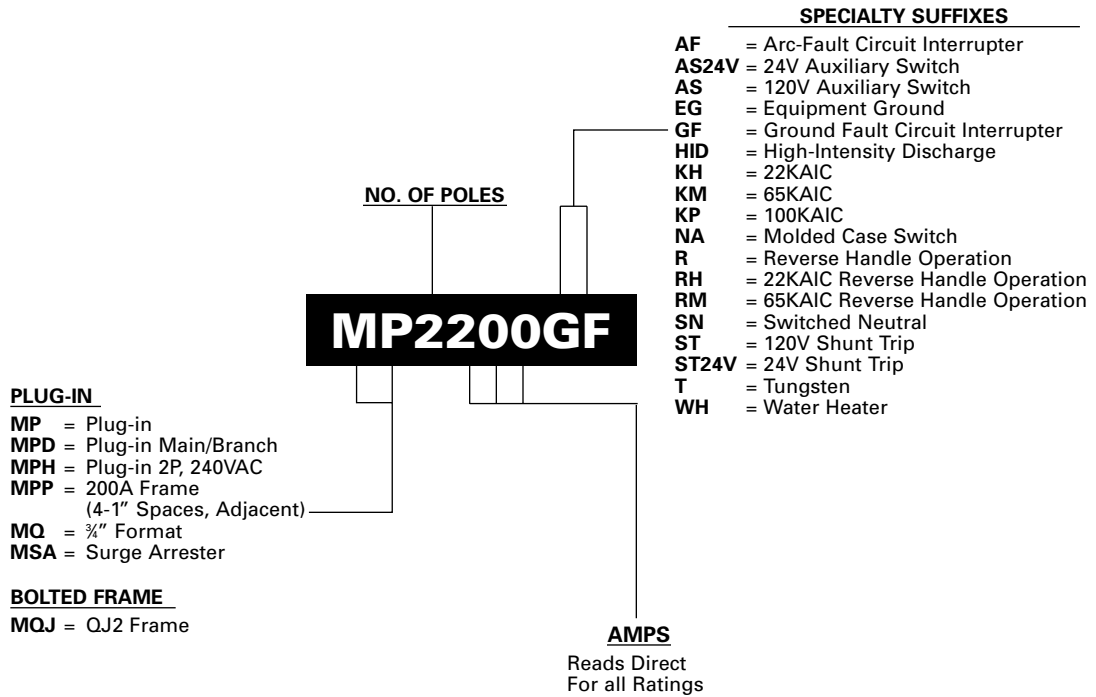
SWD

MP-T circuit breakers are UL Listed "SWD", for switching duty use on circuits controlling fluorescent lights. 2005 NEC Article 240-83 (D).

Circuit Breakers

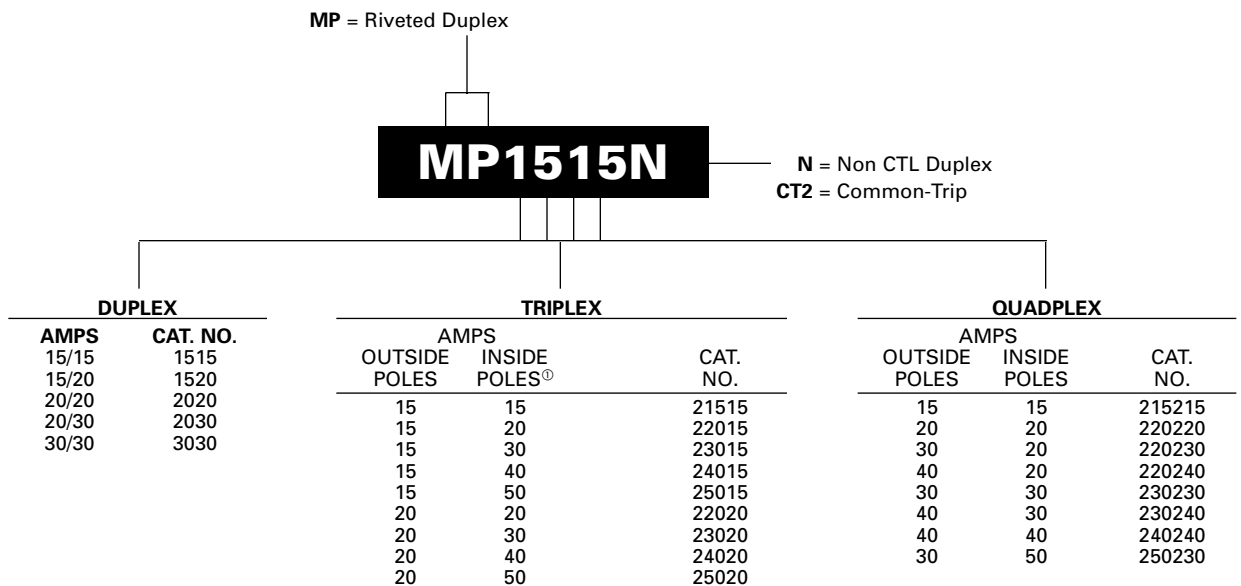
Catalog Coding System

Full-Size Circuit Breakers



2 CIRCUIT BREAKERS

Half-Size Circuit Breakers



[Ⓞ] Inside poles are common trip.

Circuit Breakers

Interrupting Ratings

| Breaker Type | Maximum Amperage | RMS Symmetrical Amps (kA) | | | | | | Page Number |
|-------------------------|------------------|---------------------------|---------|-----|-----|-----|-----|-------------|
| | | Volts AC | | | | | | |
| | | 120 | 120/240 | 240 | 277 | 480 | 600 | |
| MP-T (1-P) | 70 | 10 | | | | | | 2-6 |
| MP-HT (1-P) | 70 | 22 | | | | | | 2-6 |
| MP-MT (1-P) | 70 | 65 | | | | | | 2-6 |
| MP-T (2-P) | 100 | | | 10 | | | | 2-6 |
| MP-T (2-P) | 125 | | 10 | | | | | 2-6 |
| MP-HT (2-P) | 125 | | 22 | | | | | 2-6 |
| MP-MT (2-P) | 125 | | 65 | | | | | 2-6 |
| MP-T (3-P) | 125 | | | 10 | | | | 2-6 |
| MP-HT (3-P) | 125 | | | 22 | | | | 2-6 |
| MP-MT (3-P) | 125 | | | 65 | | | | 2-6 |
| MH-T (Duplex) | 30 | 10 | | | | | | 2-7 |
| MH-T (Triplex/Quadplex) | 50 | | 10 | | | | | 2-7 |
| MP-AT | 20 | 10 | | | | | | 2-8 |
| MP-HAT | 20 | 22 | | | | | | 2-8 |
| MP-GT (1-P) | 30 | 10 | | | | | | 2-8 |
| MP-HGT (1-P) | 30 | 22 | | | | | | 2-8 |
| MP-GT (2-P) | 60 | | 10 | | | | | 2-8 |
| MP-HGT (2-P) | 60 | | 22 | | | | | 2-8 |
| MP-ET | 60 | | 10 | | | | | 2-8 |
| MP-HET | 60 | | 22 | | | | | 2-8 |
| MD-T | 200 | | 10 | | | | | 2-12 |
| MD-HT | 200 | | 22 | | | | | 2-12 |
| MD-MT | 200 | | 65 | | | | | 2-12 |
| MD-TR | 200 | | 10 | | | | | 2-12 |
| MD-HTR | 200 | | 22 | | | | | 2-12 |
| MD-MTR | 200 | | 65 | | | | | 2-12 |
| ED-A | 225 | | | 10 | | | | 2-12 |
| MPP | 225 | | 10 | | | | | 2-12 |
| MPP-HT | 225 | | 22 | | | | | 2-12 |
| MPP-MT | 225 | | 65 | | | | | 2-12 |
| MPP-PT | 225 | | 100 | | | | | 2-12 |
| QJ2 | 225 | | | 10 | | | | 2-13 |
| QJH2 | 225 | | | 22 | | | | 2-13 |
| QJ2-H | 225 | | | 42 | | | | 2-13 |
| BQD (1-P) | 100 | | 65 | | | | | 2-16 |
| BQD(2,3-P) | 100 | | | 65 | 14 | | | 2-16 |
| ED4(1-P) | 100 | | 65 | | 22 | | | 2-17 |
| ED4(2,3-P) | 125 | | | 65 | | 18 | | 2-17 |
| HED4(1-P15-30A) | 30 | | 100 | | 65 | | | 2-17 |
| HED41-P35-70A) | 70 | | 100 | | 25 | | | 2-17 |
| HED4(2-P) | 100 | | | 100 | | 42 | | 2-17 |
| HED4(3-P) | 125 | | | 100 | | 42 | | 2-17 |
| ED6,(2,3-P) | 125 | | | 65 | | 25 | 18 | 2-17 |
| FXD6 | 250 | | | 65 | | 35 | 22 | 2-18 |
| HFD6 | 250 | | | 100 | | 65 | 25 | 2-18 |
| JXD2 | 400 | | | 65 | | | | 2-18 |
| JXD6 | 400 | | | 65 | | 35 | 25 | 2-18 |
| HJD6 | 400 | | | 100 | | 65 | 35 | 2-18 |
| LXD6 | 600 | | | 65 | | 35 | 25 | 2-19 |
| HLD6 | 600 | | | 100 | | 65 | 35 | 2-19 |
| MD6 | 800 | | | 65 | | 50 | 25 | 2-19 |
| HMD6 | 800 | | | 100 | | 65 | 50 | 2-19 |
| ND6 | 1200 | | | 65 | | 50 | 25 | 2-19 |
| HND6 | 1200 | | | 100 | | 65 | 50 | 2-19 |

Circuit Breakers

Lug Data

| Circuit Breaker Type | Circuit Breaker Ampere Rating | Cables Per Connector | Connector Wire Range |
|---|-------------------------------|----------------------|------------------------------------|
| MP-T, MP-HT, MP-MT | LOAD SIDE | | |
| | 7 | 2 | #18-#14 CU |
| | 10 | 2 | #16-#14 CU |
| | 15-20 | 1 | #14-#8 AWG Cu #12-#8 AWG Al |
| | 25-35 | 1 | #14-#6 AWG Cu #14-#6 AWG Al |
| | 40-50 | 1 | #8-#6 AWG Cu #8-#4 AWG Al |
| | 55-70 | 1 | #8-#4 AWG Cu #8-#2 AWG Al |
| | 80-100 | 1 | #4-#1/0 AWG Cu #2-#1/0 AWG Al |
| | 110-125 ^② | 1 | #2-#1/0 AWG Cu #1/0-#2/0 AWG Al |
| MH-T | 15-35 | 1 | #14-#8 AWG Cu #12-#8 AWG Al |
| | 40 | 1 | #8 AWG CU-AL |
| | 40-50 | 1 | #8-#6 AWG Cu #8-#4 AWG Al |
| MP-GT, MP-HGT, MP-ET, MP-HET BLF, BLHF, BLE, BLEH | 15-30 | 1 | #14-#10 AWG Cu #12-#8 AWG Al |
| | 40-60 | 1 | #8-#6 AWG Cu #8-#4 AWG Al |
| MP-AT, MP-HAT, BAF, BAFH | 15-20 | 1 | #14-#12 AWG Cu #12-#10 AWG Al |
| MSQ | 15-20 | 2 | #14-#8 AWG Cu Only |
| | 15-20 | 1 | #14-#12 AWG Cu #12-#10 AWG Al |
| | 25-35 | 1 | #10-#8 AWG Cu #10-#6 AWG Al |
| | 40-60 | 1 | #8-#6 AWG Cu #8-#4 AWG Al |
| MD-T, MD-HT, MD-MT, MD-PT, MD-TR, MD-HTR, MD-MTR, MD-PTR | 150-200 | 1 | #1-300kcmil Cu-Al |
| M1 | 100 | 1 | #4-3/0 AWG Cu-Al |
| | 125 | 1 | #4-3/0 AWG Cu-Al |
| M2 | 150 | 1 | #1-300kcmil Cu-Al |
| | 200 | 1 | #1-300kcmil Cu-Al |
| | 225 | 1 | #1-300kcmil Cu-Al |
| MPP-T, MPP-HT, MPP-MT, MPP-PT | 125 | 1 | #1 AWG Cu #2/0 AWG Al |
| | 150 | 1 | #1/0 AWG Cu #3/0 AWG Al |
| | 175 | 1 | #2/0 AWG Cu #4/0 AWG Al |
| | 200 | 1 | #3/0 AWG Cu 250kcmil AWG Al |
| | 225 | 1 | #4/0 AWG Cu 300kcmil AWG Al |
| | | | 1 |
| MQ, MQH, MQL | 60-225 | 1 | #6-300kcmil Cu #4-300kcmil Al |

Circuit Breakers

Full Size (1" per Pole) with INSTA-WIRE

1-Pole Plug-In (120V AC)^{①⑤}

| Continuous Current Rating @ 40° C | Type MP-T | | Type MP-HT | | Type MP-MT | |
|-----------------------------------|--------------------|---------------|----------------------|---------------|----------------------|---------------|
| | 10,000A IR | | 22,000A IR | | 65,000A IR | |
| | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 10 | MP110 | 35.00 | — | — | — | — |
| 15 | MP115 ^⑥ | 35.00 | MP115KH ^⑥ | 74.00 | MP115KM ^⑥ | 131.00 |
| 20 | MP120 ^⑥ | 35.00 | MP120KH ^⑥ | 74.00 | MP120KM ^⑥ | 131.00 |
| 25 | MP125 | 35.00 | MP125KH | 74.00 | MP125KM | 131.00 |
| 30 | MP130 | 35.00 | MP130KH | 80.00 | MP130KM | 153.00 |
| 35 | MP135 | 35.00 | MP135KH | 80.00 | MP135KM | 153.00 |
| 40 | MP140 | 35.00 | MP140KH | 80.00 | MP140KM | 153.00 |
| 45 | MP145 | 35.00 | MP145KH | 80.00 | MP145KM | 153.00 |
| 50 | MP150 | 35.00 | MP150KH | 80.00 | MP150KM | 153.00 |
| 60 | MP160 | 35.00 | MP160KH | 80.00 | MP160KM | 153.00 |
| 70 | MP170 | 73.00 | MP170KH | 104.00 | MP170KM | 192.00 |



1-Pole



2-Pole



3-Pole

2-Pole Plug-In (Common-Trip 120/240V AC)^{①⑥}

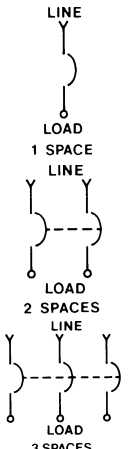
| | | | | | | |
|-----|--------|--------|----------|---------|----------|---------|
| 15 | MP215 | 75.00 | MP215KH | 158.00 | MP215KM | 385.00 |
| 20 | MP220 | 75.00 | MP220KH | 158.00 | MP220KM | 385.00 |
| 25 | MP225 | 75.00 | MP225KH | 158.00 | MP225KM | 385.00 |
| 30 | MP230 | 75.00 | MP230KH | 158.00 | MP230KM | 385.00 |
| 35 | MP235 | 75.00 | MP235KH | 158.00 | MP235KM | 385.00 |
| 40 | MP240 | 75.00 | MP240KH | 158.00 | MP240KM | 385.00 |
| 45 | MP245 | 75.00 | MP245KH | 158.00 | MP245KM | 385.00 |
| 50 | MP250 | 75.00 | MP250KH | 158.00 | MP250KM | 385.00 |
| 60 | MP260 | 75.00 | MP260KH | 158.00 | MP260KM | 385.00 |
| 70 | MP270 | 152.00 | MP270KH | 249.00 | MP270KM | 611.00 |
| 80 | MP280 | 217.00 | MP280KH | 347.00 | — | — |
| 90 | MP290 | 217.00 | MP290KH | 347.00 | MP290KM | 728.00 |
| 100 | MP2100 | 217.00 | MP2100KH | 347.00 | MP2100KM | 728.00 |
| 110 | MP2110 | 419.00 | MP2110KH | 1152.00 | MP2110KM | 2444.00 |
| 125 | MP2125 | 419.00 | MP2125KH | 1152.00 | MP2125KM | 2444.00 |

2-Pole Plug-In (Common-Trip 240V AC)^{①③④}

| | | | | | | |
|-----|---------|--------|---|---|---|---|
| 15 | MPH215 | 217.00 | — | — | — | — |
| 20 | MPH220 | 217.00 | — | — | — | — |
| 30 | MPH230 | 217.00 | — | — | — | — |
| 40 | MPH240 | 217.00 | — | — | — | — |
| 50 | MPH250 | 217.00 | — | — | — | — |
| 60 | MPH260 | 217.00 | — | — | — | — |
| 70 | MPH270 | 251.00 | — | — | — | — |
| 100 | MPH2100 | 350.00 | — | — | — | — |

3-Pole Plug-In (Common-Trip 240V AC)^{①⑦}

| | | | | | | |
|-----|--------|--------|----------|--------|----------|--------|
| 15 | MP315 | 268.00 | MP315KH | 404.00 | MP315KM | 624.00 |
| 20 | MP320 | 268.00 | MP320KH | 404.00 | MP320KM | 624.00 |
| 25 | MP325 | 268.00 | MP325KH | 404.00 | — | — |
| 30 | MP330 | 268.00 | MP330KH | 404.00 | MP330KM | 624.00 |
| 35 | MP335 | 268.00 | — | — | — | — |
| 40 | MP340 | 268.00 | MP340KH | 404.00 | MP340KM | 624.00 |
| 45 | MP345 | 268.00 | — | — | — | — |
| 50 | MP350 | 268.00 | MP350KH | 404.00 | MP350KM | 624.00 |
| 60 | MP360 | 268.00 | MP360KH | 516.00 | MP360KM | 666.00 |
| 70 | MP370 | 331.00 | MP370KH | 516.00 | MP370KM | 666.00 |
| 80 | MP380 | 380.00 | MP380KH | 576.00 | MP380KM | 774.00 |
| 90 | MP390 | 380.00 | MP390KH | 576.00 | MP390KM | 774.00 |
| 100 | MP3100 | 380.00 | MP3100KH | 576.00 | MP3100KM | 774.00 |



Wiring Diagrams

MP-T / MP-HT / MP-MT Accessories

| Description | Catalog Number | Field/Factory Installed | List Price \$ |
|--------------------------|------------------------------|-------------------------|---------------|
| 120V Shunt Trip | add suffix...ST | Factory | 134.00(adder) |
| 24V Shunt Trip | add suffix...ST24V | Factory | 134.00(adder) |
| 120V Auxiliary Switch | add suffix...AS ^② | Factory | 74.00(adder) |
| 1-Pole Padlocking Device | ECPLD1 | Field | 10.70 |
| 2-Pole Padlocking Device | ECPLD2 | Field | 10.80 |
| 3-Pole Padlocking Device | ECQLD3 | Field | 104.00 |
| Handle Block | ECHBD1 | Field | 9.60 |

Modifications

| Description | Catalog Number | List Price \$ |
|----------------------------------|-----------------------------|------------------------|
| 400Hz Calibration | add suffix...Y ^⑦ | 7.50(adder) |
| 415V 50Hz Calibration | add suffix...E ^⑧ | No adder |
| Marine 50° C Ambient Calibration | add suffix...M | No adder |
| Fungus Proofing | add suffix...F | 10.00 (adder per pole) |

■ Built to order. Allow 2-3 weeks for delivery
 ① UL Listed for use with 60/75° wire through 125 amps, HACR rated, 120V AC Fluorescent Lighting.
 ② 1A and 1B contacts.

③ UL Listed for use on 3 phase grounded "B" systems — 10,000 for this application.
 ④ UL Listed for frequent switching applications (SWD).
 ⑤ Shipped 12 per sleeve.

⑥ Shipped 6 per sleeve.
 ⑦ Shipped 4 per sleeve.
 ⑧ UL Listed 5KA IR.
 ⑨ Not UL Listed.
 ⑩ 1 & 2 Poles only.

Circuit Breakers

Full Size (1" per Pole) with INSTA-WIRE

1-Pole Plug-In (120V AC)^{①⑤}

| Continuous Current Rating @ 40° C | Type MP-T | | Type MP-HT | | Type MP-MT | |
|-----------------------------------|--------------------|---------------|----------------------|---------------|----------------------|---------------|
| | 10,000A IR | | 22,000A IR | | 65,000A IR | |
| | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 10 | MP110 | 35.00 | — | — | — | — |
| 15 | MP115 ^⑥ | 35.00 | MP115KH ^⑥ | 74.00 | MP115KM ^⑥ | 131.00 |
| 20 | MP120 ^⑥ | 35.00 | MP120KH ^⑥ | 74.00 | MP120KM ^⑥ | 131.00 |
| 25 | MP125 | 35.00 | MP125KH■ | 74.00 | MP125KM■ | 131.00 |
| 30 | MP130 | 35.00 | MP130KH | 80.00 | MP130KM■ | 153.00 |
| 35 | MP135■ | 35.00 | MP135KH■ | 80.00 | MP135KM■ | 153.00 |
| 40 | MP140 | 35.00 | MP140KH | 80.00 | MP140KM■ | 153.00 |
| 45 | MP145■ | 35.00 | MP145KH■ | 80.00 | MP145KM■ | 153.00 |
| 50 | MP150 | 35.00 | MP150KH | 80.00 | MP150KM■ | 153.00 |
| 60 | MP160■ | 35.00 | MP160KH■ | 80.00 | MP160KM■ | 153.00 |
| 70 | MP170■ | 73.00 | MP170KH■ | 104.00 | MP170KM■ | 192.00 |



1-Pole



2-Pole



3-Pole

2-Pole Plug-In (Common-Trip 120/240V AC)^{①⑥}

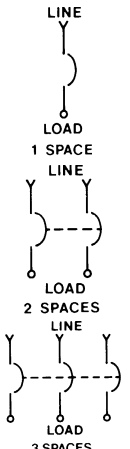
| | | | | | | |
|-----|--------|--------|----------|---------|-----------|---------|
| 15 | MP215 | 75.00 | MP215KH | 158.00 | MP215KM■ | 385.00 |
| 20 | MP220 | 75.00 | MP220KH | 158.00 | MP220KM■ | 385.00 |
| 25 | MP225 | 75.00 | MP225KH■ | 158.00 | MP225KM■ | 385.00 |
| 30 | MP230 | 75.00 | MP230KH | 158.00 | MP230KM■ | 385.00 |
| 35 | MP235 | 75.00 | MP235KH■ | 158.00 | MP235KM■ | 385.00 |
| 40 | MP240 | 75.00 | MP240KH | 158.00 | MP240KM■ | 385.00 |
| 45 | MP245 | 75.00 | MP245KH■ | 158.00 | MP245KM■ | 385.00 |
| 50 | MP250 | 75.00 | MP250KH | 158.00 | MP250KM■ | 385.00 |
| 60 | MP260 | 75.00 | MP260KH | 158.00 | MP260KM■ | 385.00 |
| 70 | MP270 | 152.00 | MP270KH■ | 249.00 | MP270KM■ | 611.00 |
| 80 | MP280 | 217.00 | MP280KH■ | 347.00 | — | — |
| 90 | MP290 | 217.00 | MP290KH■ | 347.00 | MP290KM■ | 728.00 |
| 100 | MP2100 | 217.00 | MP2100KH | 347.00 | MP2100KM | 728.00 |
| 110 | MP2110 | 419.00 | MP2110KH | 1152.00 | MP2110KM■ | 2444.00 |
| 125 | MP2125 | 419.00 | MP2125KH | 1152.00 | MP2125KM | 2444.00 |

2-Pole Plug-In (Common-Trip 240V AC)^{①③④}

| | | | | | | |
|-----|----------|--------|---|---|---|---|
| 15 | MPH215 | 217.00 | — | — | — | — |
| 20 | MPH220 | 217.00 | — | — | — | — |
| 30 | MPH230 | 217.00 | — | — | — | — |
| 40 | MPH240■ | 217.00 | — | — | — | — |
| 50 | MPH250 | 217.00 | — | — | — | — |
| 60 | MPH260 | 217.00 | — | — | — | — |
| 70 | MPH270■ | 251.00 | — | — | — | — |
| 100 | MPH2100■ | 350.00 | — | — | — | — |

3-Pole Plug-In (Common-Trip 240V AC)^{①⑦}

| | | | | | | |
|-----|--------|--------|----------|--------|----------|--------|
| 15 | MP315 | 268.00 | MP315KH | 404.00 | MP315KM■ | 624.00 |
| 20 | MP320 | 268.00 | MP320KH | 404.00 | MP320KM■ | 624.00 |
| 25 | MP325■ | 268.00 | MP325KH■ | 404.00 | — | — |
| 30 | MP330 | 268.00 | MP330KH | 404.00 | MP330KM | 624.00 |
| 35 | MP335■ | 268.00 | — | — | — | — |
| 40 | MP340 | 268.00 | MP340KH | 404.00 | MP340KM | 624.00 |
| 45 | MP345■ | 268.00 | — | — | — | — |
| 50 | MP350 | 268.00 | MP350KH | 404.00 | MP350KM | 624.00 |
| 60 | MP360 | 268.00 | MP360KH | 516.00 | MP360KM | 666.00 |
| 70 | MP370 | 331.00 | MP370KH | 516.00 | MP370KM■ | 666.00 |
| 80 | MP380 | 380.00 | MP380KH■ | 576.00 | MP380KM■ | 774.00 |
| 90 | MP390 | 380.00 | MP390KH■ | 576.00 | MP390KM■ | 774.00 |
| 100 | MP3100 | 380.00 | MP3100KH | 576.00 | MP3100KM | 774.00 |



Wiring Diagrams

MP-T / MP-HT / MP-MT Accessories

| Description | Catalog Number | Field/Factory Installed | List Price \$ |
|--------------------------|-------------------------------|-------------------------|---------------|
| 120V Shunt Trip | add suffix...ST■ | Factory | 134.00(adder) |
| 24V Shunt Trip | add suffix...ST24V■ | Factory | 134.00(adder) |
| 120V Auxiliary Switch | add suffix...AS■ ^② | Factory | 74.00(adder) |
| 1-Pole Padlocking Device | ECPLD1 | Field | 10.70 |
| 2-Pole Padlocking Device | ECPLD2 | Field | 10.80 |
| 3-Pole Padlocking Device | ECQLD3 | Field | 104.00 |
| Handle Block | ECHBD1 | Field | 9.60 |

Modifications

| Description | Catalog Number | List Price \$ |
|----------------------------------|-----------------------------|------------------------|
| 400Hz Calibration | add suffix...Y ^⑦ | 7.50(adder) |
| 415V 50Hz Calibration | add suffix...E ^⑧ | No adder |
| Marine 50° C Ambient Calibration | add suffix...M | No adder |
| Fungus Proofing | add suffix...F | 10.00 (adder per pole) |

■ Built to order. Allow 2-3 weeks for delivery
 ① UL Listed for use with 60/75° wire through 125 amps, HACR rated, 120V AC Fluorescent Lighting.
 ② 1A and 1B contacts.

③ UL Listed for use on 3 phase grounded "B" systems — 10,000 for this application.
 ④ UL Listed for frequent switching applications (SWD).
 ⑤ Shipped 12 per sleeve.

⑥ Shipped 6 per sleeve.
 ⑦ Shipped 4 per sleeve.
 ⑧ UL Listed 5KA IR.
 ⑨ Not UL Listed.
 ⑩ 1 & 2 Poles only.

Circuit Breakers

Duplex, Triplex and Quadplex Plug-in Breakers

Duplex Circuit Breakers

| Breaker Type | Ampere Rating | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
|--|---------------|----------------|---------------|----------------------|---------------|
| MH-T 1-Pole 10K AIC 120V AC | 15-15 | MP1515 | 73.00 | MP1515N [Ⓞ] | 93.00 |
| | 15-20 | MP1520 | 73.00 | MP1520N [Ⓞ] | 93.00 |
| | 20-20 | MP2020 | 73.00 | MP2020N [Ⓞ] | 93.00 |
| | 20-30 | MP2030 | 73.00 | MP2030N [Ⓞ] | 93.00 |
| | 15-30 | MP3015 | 73.00 | MP3015N [Ⓞ] | 93.00 |
| | 30-30 | MP3030 | 73.00 | MP3030N [Ⓞ] | 93.00 |
| SHIPPING: 12 per carton, (Wt. 4.8 lbs.) | | | | | |

MH-T Duplex

These space saver duplex breakers combine two independent 1/2" breaker poles in a common unit. This unit plugs into one load center stab and requires one panel space. HACR rated.

Triplex Circuit Breakers

| Breaker Type | Ampere Rating | | Catalog Number | List Price \$ |
|--|---|--------------|----------------|---------------|
| | Single Poles | Double Poles | | |
| MH-T 2-Pole 10K AIC 120/240V AC Center Common Trip | 15 | 15 | MP21515 | 141.00 |
| | 15 | 20 | MP22015 | 141.00 |
| | 15 | 25 | MP22515 | 141.00 |
| | 15 | 30 | MP23015 | 141.00 |
| | 15 | 35 | MP23515 | 141.00 |
| | 15 | 40 | MP24015 | 141.00 |
| | 15 | 45 | MP24515 | 141.00 |
| | 15 | 50 | MP25015 | 141.00 |
| | 20 | 20 | MP22020 | 141.00 |
| | 20 | 25 | MP22520 | 141.00 |
| | 20 | 30 | MP23020 | 141.00 |
| | 20 | 35 | MP23520 | 141.00 |
| | 20 | 40 | MP24020 | 141.00 |
| | 20 | 45 | MP24520 | 141.00 |
| | 20 | 50 | MP25020 | 141.00 |
| | SHIPPING: 6 per carton, (Wt. 4.9 lbs.) | | | |

MH-T Triplex

These space saver triplex breakers provide a 2-pole common trip breaker for 120/240V AC circuits and two single poles for 120V AC circuits. Triplex require two panel spaces. HACR rated.

Quadplex Circuit Breakers

| Breaker Type | Ampere Rating | | Catalog Number | List Price \$ |
|--|---------------|----------------|----------------|---------------|
| | Inside 2-Pole | Outside 2-Pole | | |
| MH-T 2-Pole 10K AIC 120/240V AC Common Trip | 15 | 15 | MP215215CT2 | 147.00 |
| | 15 | 20 | MP220220CT2 | 147.00 |
| | 20 | 30 | MP220230CT2 | 147.00 |
| | 20 | 40 | MP220240CT2 | 147.00 |
| | 30 | 30 | MP230230CT2 | 147.00 |
| | 30 | 40 | MP230240CT2 | 147.00 |
| | 40 | 40 | MP240240CT2 | 147.00 |
| | 50 | 30 | MP250230CT2 | 147.00 |
| SHIPPING: 6 per carton, (Wt. 4.8 lbs.) | | | | |

**MH-T Quadplex
Common Trip**

These space saver quadplex breakers provide two sets of common trip, two-pole breakers for 120/240V AC circuits, and require two panel spaces. HACR rated.

Accessories

| Description | Catalog Number | List Price \$ |
|-----------------------------------|----------------|---------------|
| Duplex Padlock (on/off) | ECPLD1 | 10.70 |
| Triplex/Quadplex Padlock (on/off) | ECPLD2 | 10.80 |
| Handle Block | ECHBD05 | 7.00 |

■ Built to order. Allow 2-3 weeks for delivery.

ⓄNon-CTL. For replacement use only in panels manufactured before 1968.

Circuit Breakers

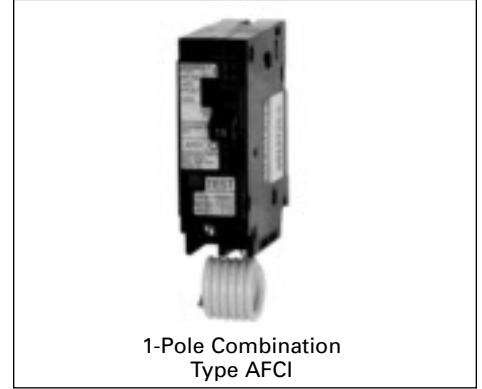
Arc-Fault Circuit Interrupters (AFCI)

- UL Listed
- HACR & SWD Rated
- Standard 1 inch per pole format with plug-in design

Combination Type AFCI^②

AFCI's detect arcing faults (an unintentional arcing condition in a circuit) that standard circuit breakers are unable to detect. The Combination Type AFCI detects all three possible types of arc fault: line-to-ground, line-to-neutral, and series. The device is intended to mitigate the effects of arcing faults by functioning to de-energize the circuit when an arc-fault is detected.

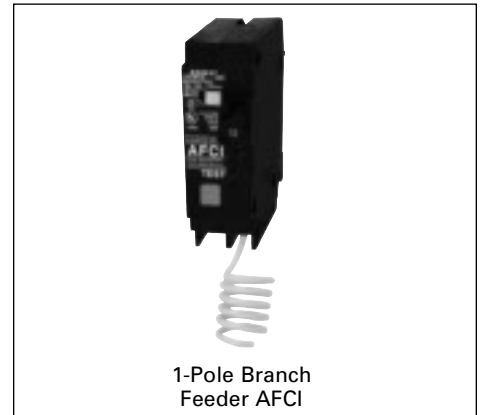
| Breaker Type | Ampere Rating | 10,000 A IR | | 22,000 A IR | |
|------------------------------------|---------------|-----------------------|---------------|-------------------------|---------------|
| | | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| MP-AT/ MP-HAT 1-Pole 120V AC | 15 | MP115AFC ^① | 300.00 | MP115AFCH ^{■①} | 606.00 |
| | 20 | MP120AFC ^① | 300.00 | MP120AFCH ^{■①} | 606.00 |



Branch-Feeder AFCI

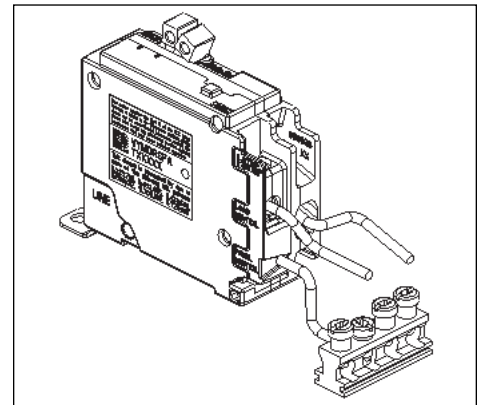
AFCI's detect arcing faults (an unintentional arcing condition in a circuit) that standard circuit breakers are unable to detect. The Branch-Feeder AFCI detects line-to-ground and line-to-neutral arcs. The device is intended to mitigate the effects of arcing faults by functioning to de-energize the circuit when an arc-fault is detected.

| Breaker Type | Ampere Rating | 10,000 A IR | | 22,000 A IR | |
|--|---------------|----------------------|---------------|------------------------|---------------|
| | | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| MP-AT/ MP-HAT 1-Pole 120V AC | 15 | MP115AF ^① | 270.00 | MP115AFH ^{■①} | 545.00 |
| | 20 | MP120AF ^① | 270.00 | MP120AFH ^{■①} | 545.00 |
| MP-AT/ MP-HAT 2-Pole 120/240V AC | 15 | MP215AF | 463.00 | MP215AFH [■] | 698.00 |
| | 20 | MP220AF | 463.00 | MP220AFH [■] | 698.00 |



AFCI Accessories

| Description | Catalog Number | List Price \$ |
|--|----------------|---------------|
| Padlocking Device for 1" & Twin Breakers | ECPLD1 | 10.70 |
| Padlocking Device for 2" & Quad Breakers | ECPLD2 | 10.80 |
| Handle Blocking Device for 1/2" Circuit Breakers | ECBX231M | 10.30 |



■ Built to order. Allow 2-3 weeks for delivery.
 ① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

② White line neutral (pigtail) must be connected to the panel neutral for the device to function.

Circuit Breakers

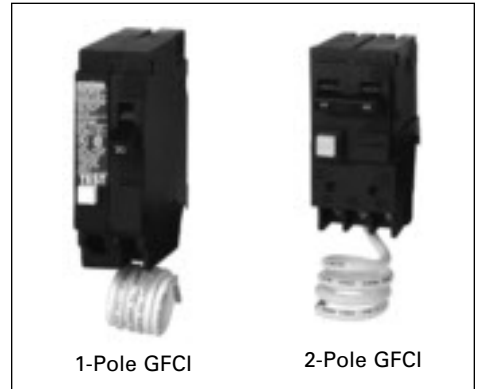
Ground-Fault Circuit Interrupters (GFCI)

- UL Listed and CSA Certified
- HACR Rated
- Standard 1 inch per pole format with plug-in design

Ground-Fault Circuit Interrupters (Class A - 5mA)^②

Ground-fault circuit interrupters (GFCI) provide Class A ground fault protection. A GFCI is a device intended for personnel protection and will de-energize the circuit when a fault current to ground is 6 milliamperes or more.

| | | | | | |
|---|----|------------------------------|--------|--------------------------------|--------|
| MP-GT/ MP-HGT 1-Pole 120V AC | 15 | MP115 GF ^① | 270.00 | MP115GFH ■ ^① | 545.00 |
| | 20 | MP120 GF ^① | 270.00 | MP120GFH ■ ^① | 545.00 |
| | 25 | MP125 GF ■ | 270.00 | — | |
| | 30 | MP130 GF | 270.00 | MP130GFH ■ | 545.00 |
| MP-GT/ MP-HGT 2-Pole 120/240V AC | 15 | MP215 GF | 483.00 | MP215GFH ■ | 717.00 |
| | 20 | MP220 GF | 483.00 | MP220GFH ■ | 717.00 |
| | 30 | MP230 GF | 483.00 | MP230GFH ■ | 717.00 |
| | 40 | MP240 GF | 483.00 | MP240GFH ■ | 717.00 |
| | 50 | MP250 GF | 483.00 | MP250GFH ■ | 717.00 |
| | 60 | MP260 GF | 483.00 | MP260GFH ■ | 717.00 |



1-Pole GFCI

2-Pole GFCI

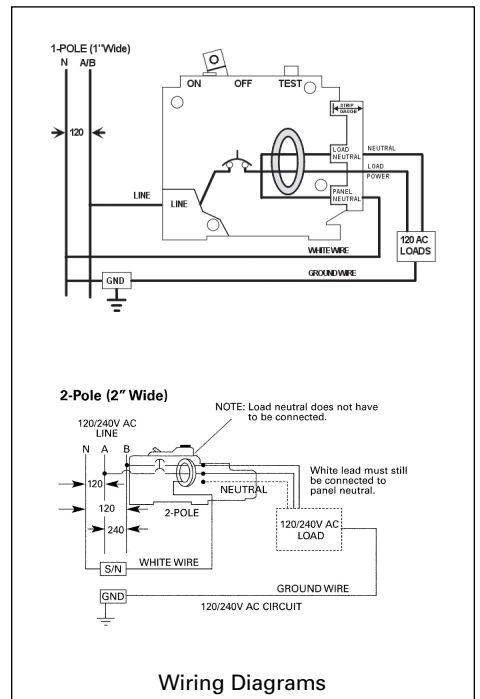
Ground Fault Equipment Protection (30mA)^②

Type EQF circuit breakers provide protection of equipment from damaging line-to-ground fault currents by de-energizing the circuit for all ungrounded conductors of the faulted circuit.

| | | | | | |
|---|----|------------------------------|--------|--------------------------------|---------|
| MP-ET/ MP-HET 1-Pole 120V AC | 15 | MP115 EG ^① | 492.00 | MP115EGH ■ ^① | 808.00 |
| | 20 | MP120 EG ^① | 492.00 | MP120EGH ■ ^① | 808.00 |
| | 30 | MP130 EG | 492.00 | MP130EGH ■ | 808.00 |
| MP-ET/ MP-HET 2-Pole 120/240V AC | 15 | MP215 EG | 651.00 | MP215EGH ■ | 1074.00 |
| | 20 | MP220 EG | 651.00 | MP220EGH ■ | 1074.00 |
| | 30 | MP230 EG | 651.00 | MP230EGH ■ | 1074.00 |
| | 40 | MP240 EG | 651.00 | MP240EGH ■ | 1074.00 |
| | 50 | MP250 EG | 651.00 | MP250EGH ■ | 1074.00 |
| | 60 | MP260 EG ■ | 651.00 | MP260EGH ■ | 1074.00 |

AFCI and GFCI Accessories

| Description | Catalog Number | List Price \$ |
|--|----------------|---------------|
| Padlocking Device for 1" & Twin Breakers | ECPLD1 | 10.70 |
| Padlocking Device for 2" & Quad Breakers | ECPLD2 | 10.80 |
| Handle Blocking Device for 1/2" Circuit Breakers | ECBX231M | 10.30 |



Wiring Diagrams

■ Built to order. Allow 2-3 weeks for delivery.

① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

② White line neutral (pigtail) must be connected to the panel neutral for the device to function.

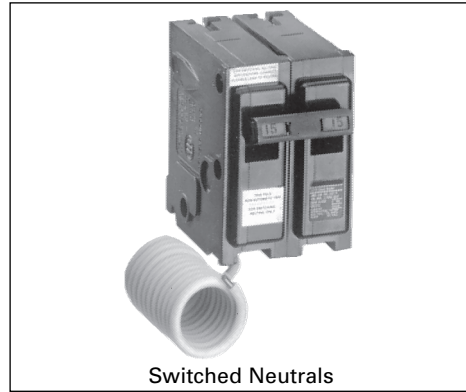
Circuit Breakers

Special Application Breakers

HID Lighting

For high-intensity discharge lamp loads having in-rush currents above the instantaneous trip setting of a standard breaker.

| Breaker Type | Wiring Diagram | Ampere Rating | Complete Breaker UL Unenclosed | |
|--------------------------------------|----------------|---------------|-----------------------------------|---------------|
| | | | Catalog Number | List Price \$ |
| MP-T 1-Pole 120V AC | Figure 1 | 15 | MP115HID■ | 46.00 |
| | | 20 | MP120HID■ | 46.00 |
| | | 30 | MP130HID■ | 46.00 |
| MP-T 2-Pole 120/240V AC | Figure 1 | 15 | MP215HID■ | 92.00 |
| | | 20 | MP220HID■ | 92.00 |
| | | 30 | MP230HID■ | 92.00 |



Switched Neutrals

Molded Case Switch

Molded case non-automatic switch does not provide overload protection.

| Breaker Type | Wiring Diagram | Ampere Rating | Catalog Number | List Price \$ |
|---|----------------|---------------|----------------|---------------|
| MP-T 2-Pole 240V AC Plug-In | Figure 2 | 60 | MP260NA | 76.00 |
| | | 30 | MP230NA | 76.00 |



Water Heater

Switched Neutrals

For use where all conductors are required to be disconnected. Neutral pole of breaker does not connect to loadcenter bus. One side is wired to neutral and the other to the device.

| Breaker Type | Wiring Diagram | Ampere Rating | Catalog Number | List Price \$ |
|---|----------------|---------------|----------------|---------------|
| MG 2 Wire Common Trip 120V AC | Figure 3 | 15 | MP215SN | 105.00 |
| | | 20 | MP220SN | 105.00 |
| | | 30 | MP230SN■ | 105.00 |
| MG 3 Wire Common Trip 120/240V AC | Figure 4 | 15 | MP315SN■ | 155.00 |
| | | 20 | MP320SN | 155.00 |
| | | 30 | MP330SN■ | 163.00 |

Tungsten Lighting

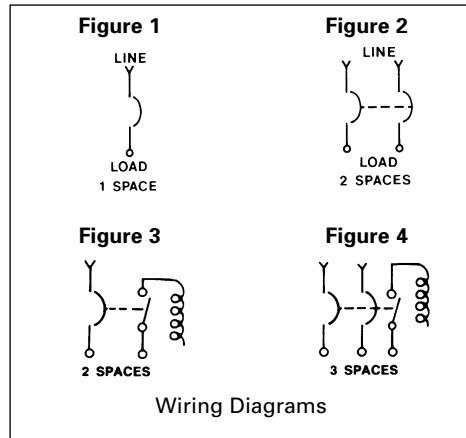
For high wattage, tungsten-lamp loads having in-rush currents above the instantaneous trip setting of a standard breaker.

| Breaker Type | Wiring Diagram | Ampere Rating | Catalog Number | List Price \$ |
|----------------------------------|----------------|---------------|----------------|---------------|
| MP-T 1-Pole 120V AC | Figure 1 | 15 | MP115T■ | 35.00 |
| | | 20 | MP120T■ | 35.00 |

Water Heater

Circuit breaker does not make electrical connection with loadcenter bus. Separate metered circuit is connected to the line terminals of the breaker. Used in special rate water heating areas.

| Breaker Type | Wiring Diagram | Ampere Rating | Catalog Number | List Price \$ |
|--|----------------|---------------|----------------|---------------|
| MW 2-Pole 120/40V AC Plug-In | Figure 4 | 15 | MP215WH■ | 88.00 |
| | | 20 | MP220WH | 88.00 |
| | | 30 | MP230WH | 88.00 |



Wiring Diagrams

■ Built to order. Allow 2-3 weeks for delivery.
Note: All circuit breakers on this page are 10K AIC

© UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

Circuit Breakers

Type MSQ, 3/4 Inch Plug-In Breakers

Features

- 3/4" format.
- HACR Rated.
- UL Classified for use in certain Square D[®] load centers.

Type MSQ Circuit Breakers

The Type MSQ circuit breaker line is available in 1-pole and 2-pole common trip versions listed on this page.

The circuit breakers are UL Classified and UL Listed.

All MSQ breakers are supplied with load side connectors suitable for 60/75°C wire and are calibrated for 40°C maximum ambient applications.

UL Classified

Murray Type MSQ circuit breakers are UL Classified for use in specific Square D[®] load centers in place of Square D[®] Type QO[®] circuit breakers. A Panelboard Compatibility List packaged with each QD breaker shows which type MSQ circuit breakers are acceptable for use in Square D[®] load centers.

The interrupting rating on these circuit breakers is 10,000A IR maximum and they are **not** series rated with Square D[®] circuit breakers or equipment. This UL Classification allows a Murray Type MSQ circuit breaker to be used in place of a Square D[®] Type QO circuit breaker in those load centers that are specifically shown on the Panelboard Compatibility list. For additional information, contact your local Murray sales engineer.

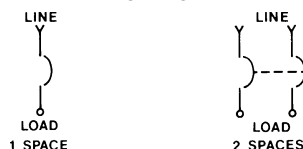


| Continuous Current Rating @ 40°C | 1-Pole | | 2-Pole | |
|----------------------------------|--------------------|---------------|----------------------|---------------|
| | 120V | | 120/240V Common Trip | |
| | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 15 | MQ115 ^① | 35.00 | MQ215 | 76.00 |
| 20 | MQ120 ^① | 35.00 | MQ220 | 76.00 |
| 30 | MQ130 | 35.00 | MQ230 | 76.00 |
| 40 | MQ140 | 35.00 | MQ240 | 76.00 |
| 50 | MQ150 | 35.00 | MQ250 | 76.00 |
| 60 | MQ160 | 35.00 | MQ260 | 76.00 |

Shipping Weights

| Number of Poles | Number Per Carton | Shipping Weight (lbs.) |
|-----------------|-------------------|------------------------|
| 1 | 16 | 3.8 |
| 2 | 8 | 4.2 |

1-Pole 2-Pole Wiring Diagrams



Panelboard Compatibility List

Listed Panelboards—Square D[®]—Catalog Numbers

| | | | |
|-----------------|------------------|-----------------|------------------|
| QO2L30F/S | QO12M100/RB | QO120-30M150/RB | QO130-40M200 |
| QO2-4L70F/S | QO16-20M100/RB | QO124L150G | QO130200/RB |
| QO2-4L70TS | QO16M100/RB | QO124M150 | QO130-40L200G/RB |
| QO2-4L70RB | QO20M100/RB | QO130L150G/RB | QO140M200/RB |
| QO6-12L100F/S | QO112L125G/RB | QO130M150/RB | QO16L200/RB |
| QO6-12L100DF/S | QO112-24L125/RB | QO16L150/RB | QO16M200/RB |
| QO6-12L100TF/S | QO112-24L125GWGC | QO16M150/RB | QO18-16M200FTRB |
| QO6-12L100DTF/S | QO116L125G | QO16-30L150/RB | QO20-40L200/RB |
| QO6-12L100RB | QO116-24L125G/RB | QO18-16M150FTRB | QO20-40M200TF/S |
| QO8-16L100F/S | QO12-24L125/RB | QO20-30M150/RB | QO20-40M200/RB |
| QO8-16L100DF/S | QO120-24L125G | QO20-30M150TF/S | QO24L200/RB |
| QO8-16L100TF/S | QO120-24L125GWGC | QO20-30L150 | QO24M200/RB |
| QO-16L100DTF/S | QO120L125G | QO24L150/RB | QO30L200/RB |
| QO8-16L100RB | QO124L125G/RB | QO24M150/RB | QO30M200/RB |
| QO112M100/RB | QO124M125/RB | QO30L150/RB | QO30-40L200/RB |
| QO116M100/RB | QO16L125/RB | QO30M150/RB | QO30-40M200/RB |
| QO120M100/RB | QO16-12M125FTRB | QO8-16M200FT/RB | QO40M200/RB |
| QO124M100 | QO16-24L125/RB | QO112L200G/RB | QO140M225 |
| QO12L100DF/S | QO20L125/RB | QO120-40M200/RB | QO142L225G/RB |
| QO12L100RB | QO20-24L125/RB | QO120-40M200TC | |
| QO12-20M100/RB | QO24L125/RB | QO124M200 | |
| QO12-20M100TF/S | QO120-30L150G | QO130L200G/RB | |

① UL Listed for frequent switching applications (SWD). 120V AC Fluorescent Lighting. One or two load conductors.
 ② Square D is a registered trademark of Schneider Electric.

Circuit Breakers

Surge Protection

Circuit Breaker and Secondary Surge Arrester Circuit Breaker and TVSS Features

- UL Listed
- Easy to install
- Perfect for retrofit - replaces two 1-inch breakers without losing any circuits
- A single device protects the entire electrical system from damage caused by surges

By installing a Murray Circuit Breaker/Surge Arrester or Circuit Breaker/TVSS device in the load center of the residence, surge protection is provided for all branch circuits.

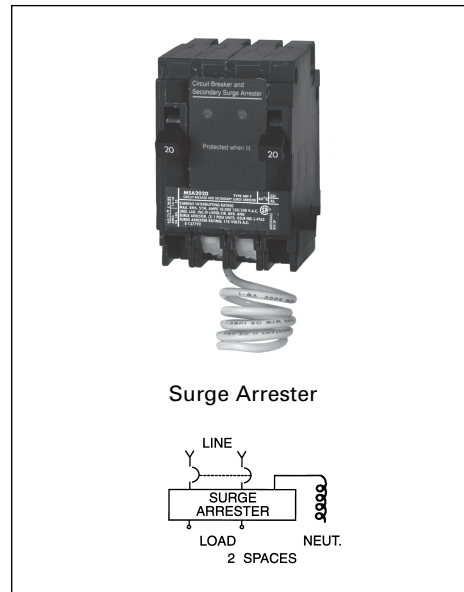
Two red LED indicator lights are provided to show that surge protection is provided for all circuits connected to the panelboard. As a Murray exclusive feature, the device notifies the owner of loss of surge protection by tripping one or both of the circuit breakers. These breakers should be used for circuit protection of frequently used household or facility circuits because the lights and devices connected to these circuits provide an effective indication that surge protection is being provided.

| Breaker Type | Ampere Rating | Initial Clamping Voltage | Catalog Number | List Price \$ | Surge Type |
|--------------------------------|---------------|--------------------------|----------------|---------------|----------------|
| MP-T ①②③④ 1-Pole | (2) 15 | 360V | MSA1515 | 263.00 | Surge Arrester |
| 120/240V AC 10K AIC | (2) 20 | 360V | MSA2020 | 263.00 | Surge Arrester |

The Murray circuit breaker and transient voltage surge suppressor is comprised of a highly effective TVSS module integrated with (2) 1-pole circuit breakers. This device incorporates the robust features of our secondary circuit breaker surge arrester with a lower clamping voltage rating.

By installing a Murray Circuit Breaker/TVSS device in the load center of the residence, surge protection is not only provided for all branch circuits, but also, fixtures, appliances, motors, and other electronic and electrical equipment in the house served by that load center.®

| | | | | | |
|--|--------|------|----------------------|---------------|------|
| MP-T ①②③④ 1-Pole 120/240V AC 10K AIC | (2) 20 | 240V | MSA2020TVSS ■ | 399.00 | TVSS |
|--|--------|------|----------------------|---------------|------|



Circuit Breaker and Secondary Arrester

| | |
|--|---|
| Number of Poles | (2) 1-Pole Circuit Breakers |
| Initial Clamping Level | 360 Volts |
| Transient Energy Rating | 460 Joules line-to-neutral 920 Joules line-to-line |
| Secondary Surge Arrester Voltage Rating | 175V AC max. line-to-ground |
| Peak Current Rating (impulse) | 40,000 amperes |
| Discharge Voltage Characteristic (line-to-neutral) | @ 1,500A, 600 volts @ 5,000A, 800 volts |
| Discharge Current Withstand Rating (line-to-neutral) | 10,00 amperes |
| Circuit Breaker Interrupting Rating | 10,000A, 120/240V AC |
| House Wiring System Warranty Amount | \$10,000 |
| Warranty Period | 24 months |
| Lightning Protection | No |

Circuit Breaker and Transient Voltage Surge Suppressor

| | |
|--|--|
| Number of Poles | (2) 1-Pole Circuit Breakers |
| Initial Clamping Level | 240 Volts |
| Transient Energy Rating | 360 Joules line-to-neutral 720 Joules line-to-line |
| Transient Suppression Voltage Rating | 500 volts peak, line-to-neutral 1000 volts peak, line-to-line |
| Peak Current Rating (impulse) | 40,000 amperes |
| Discharge Voltage Characteristic (line-to-neutral) | @ 1,500A, 600 volts @ 5,000A, 800 volts |
| Discharge Current Withstand Rating (line-to-neutral) | 10,00 amperes |
| Circuit Breaker Interrupting Rating | 10,000A, 120/240V AC |
| House Wiring System and Connected Appliances Warranty Amount | \$20,000 |
| Warranty Period | 24 months |
| Lightning Protection | No |

■ Built to order. Allow 2-3 weeks for delivery.

① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

③ HACR Rated.

④ See warranty for detailed coverage information.

⑤ Pigtail must be connected to load center neutral.

Circuit Breakers

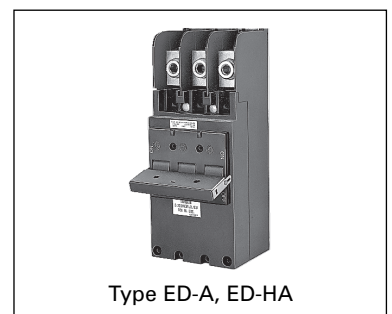
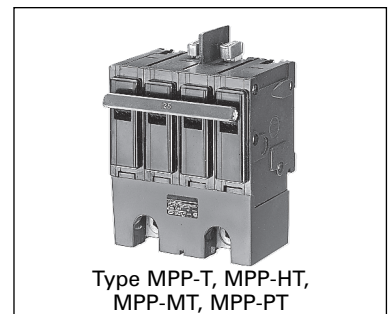
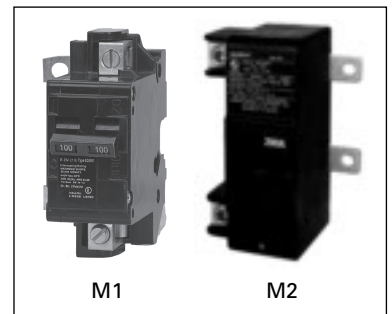
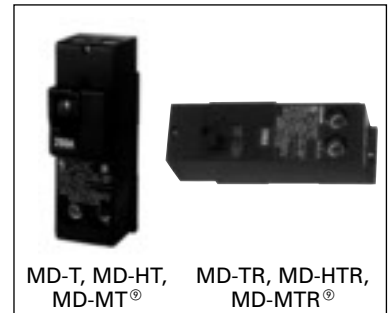
Main and Branch Circuit Breakers^①

| Breaker Type | Ampere Rating | Catalog Number | List Price \$ | Catalog Number ^{②③} | List Price \$ | UL Interrupting Ratings (kA) |
|---|---------------|----------------|---------------|------------------------------|---------------|------------------------------|
| MD-T[®] 2-Pole 120/240V AC | 150 | MPD2150 | 457.00 | MPD2150R | 457.00 | 10 |
| | 175 | MPD2175■ | 457.00 | MPD2175R■ | 457.00 | 10 |
| | 200 | MPD2200 | 457.00 | MPD2200R | 457.00 | 10 |
| MD-HT[®] 2-Pole 120/240V AC | 150 | MPD2150KH | 557.00 | MPD2150RH | 557.00 | 22 |
| | 175 | MPD2175KH■ | 557.00 | MPD2175RH■ | 557.00 | 22 |
| | 200 | MPD2200KH | 557.00 | MPD2200RH | 557.00 | 22 |
| MD-MT[®] 2-Pole 120/240V AC | 150 | MPD2150KM | 2444.00 | MPD2150RM | 2444.00 | 65 |
| | 175 | MPD2175KM■ | 2444.00 | MPD2175RM■ | 2444.00 | 65 |
| | 200 | MPD2200KM | 2444.00 | MPD2200RM | 2444.00 | 65 |

| Breaker Type | Ampere Rating | Catalog Number | List Price \$ | UL Interrupting Ratings (kA) |
|--|---------------|----------------------|---------------|------------------------------|
| M1[®] 2-Pole 120/240V AC | 100 | MBK100M [®] | 367.00 | 22 |
| | 125 | MBK125M [®] | 500.00 | 22 |
| M2[®] 2-Pole 120/240V AC | 150 | MBK150M [®] | 622.00 | 22 |
| | 175 | MBK175M [®] | 622.00 | 22 |
| | 200 | MBK200M [®] | 622.00 | 22 |
| | 225 | MBK225M [®] | 622.00 | 22 |

| Breaker Type | Ampere Rating | Catalog Number | UL Interrupting Ratings (kA) | List Price \$ |
|--|---------------|----------------|------------------------------|---------------|
| ED-A[®] 3-Pole 240V AC | 125 | EP3125 | 10 | 1354.00 |
| | 150 | EP3150 | 10 | 1354.00 |
| | 200 | EP3200 | 10 | 1354.00 |
| | 175 | EP3175 | 10 | 1354.00 |
| | 225 | EP3225 | 10 | 1354.00 |

| Breaker Type | Ampere Rating | Catalog Number | List Price \$ | UL Interrupting Ratings (kA) Volts AC 120/240 |
|--|---------------|----------------|---------------|--|
| MPP[®] 2-Pole 120/240V AC | 125 | MPP2125 | 426.00 | 10 |
| | 150 | MPP2150 | 472.00 | 10 |
| | 175 | MPP2175■ | 472.00 | 10 |
| | 200 | MPP2200 | 472.00 | 10 |
| | 225 | MPP2225 | 342.00 | 10 |
| MPP-HT[®] 2-Pole 120/240V AC | 125 | MPP2125KH | 1151.00 | 22 |
| | 150 | MPP2150KH | 1212.00 | 22 |
| | 175 | MPP2175KH■ | 1212.00 | 22 |
| | 200 | MPP2200KH | 1212.00 | 22 |
| MPP-MT[®] 2-Pole 120/240V AC | 125 | MPP2125KM■ | 2444.00 | 65 |
| | 150 | MPP2150KM | 2444.00 | 65 |
| | 175 | MPP2175KM■ | 2444.00 | 65 |
| | 200 | MPP2200KM | 2444.00 | 65 |
| MPP-PT[®] 2-Pole 120/240V AC | 225 | MPP2225KM■ | 2444.00 | 65 |
| | 100 | MPP2100KP■ | 2987.00 | 100 |
| | 125 | MPP2125KP■ | 2987.00 | 100 |
| | 150 | MPP2150KP■ | 2987.00 | 100 |
| | 175 | MPP2175KP■ | 2987.00 | 100 |
| 200 | MPP2200KP■ | 2987.00 | 100 | |
| 225 | MPP2225KP■ | 2987.00 | 100 | |



2 CIRCUIT BREAKERS

Accessories

MD-T(R), MD-HT(R), MD-MT(R), M1 and M2

| Accessory Description | Catalog Number | Field/Factory | |
|------------------------------|----------------|---------------|---------------|
| | | Installed | List Price \$ |
| Padlocking Device (100-125A) | BX125N | Field | 17.50 |
| Padlocking Device (150-200A) | BX050N | Field | 22.00 |
| Filler Plate [®] | LX400FP | Field | 17.50 |

- Built to order. Allow 2-3 weeks for delivery.
- ① All circuit breakers on this page are common trip.
- ② Reverse handle, ON toward lugs. See page 2-23.
- ③ Requires 4 panel spaces, 2 adjacent, and 2 opposite.
- ④ For use as load center branch and/or replacement main for old-style load center.
- ⑤ Main breaker kit for Rock Solid load center
- ⑥ Requires 6 spaces due to cross over design.

- ⑦ 4-poles wide for use with 200A modular and Uni-Pak metering
- ⑧ For use with breaker types MD-T(R), MD-HT(R), MD-MT(R)
- ⑨ MD-TR required for horizontal mounting applications as shown, or for vertical applications when the lugs are on top. MD-T required for vertical mounting applications with the lugs on the bottom as shown.

- ⑩ MBK100M for use with 100A and 125A Rock Solid load centers only. MBK125M for use with 125A Rock Solid load centers only.
- ⑪ MBK150M for use with 150A, 200A, and 225A Rock Solid load centers only. MBK200M for use with 200A and 225A Rock Solid load centers only. MBK225M for use with 225A Rock Solid load centers only.

Circuit Breakers

Molded Case 60-225 AMP

Type MQ 10,000 AIC



| 2 Pole Common Trip 240V AC (Fig. 1) | | | | 3 Pole Common Trip 240V AC (Fig. 2) | | | |
|-------------------------------------|-----------|-----------|---------------------------------|-------------------------------------|-----------|---------------------------------|---------------------------|
| Amps | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Wire Range Cu Al |
| 060 | MQJ260 | 588.00 | 3.00 | MQJ360 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 070 | MQJ270 | 588.00 | 3.00 | MQJ370 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 080 | MQJ280 | 588.00 | 3.00 | MQJ380 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 090 | MQJ290 | 588.00 | 3.00 | MQJ390 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 100 | MQJ2100 | 588.00 | 3.00 | MQJ3100 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 110 | MQJ2110 | 588.00 | 3.00 | MQJ3110 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 125 | MQJ2125 | 588.00 | 3.00 | MQJ3125 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 150 | MQJ2150 | 588.00 | 3.00 | MQJ3150 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 175 | MQJ2175 | 588.00 | 3.00 | MQJ3175 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 200 | MQJ2200 | 588.00 | 3.00 | MQJ3200 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 225 | MQJ2225 | 588.00 | 3.00 | MQJ3225 | 1557.00 | 4.10 | #6-300 kcmil #4-300 kcmil |

Type MQH 22,000 AIC

Wire range is lug capacity. Permissible maximum wire size in an enclosure may be limited by wire bending space.

Required wire sizes by ampere rating are given in National Electric Code or other local codes.

Accessories—See page 2-15.
Line Diagrams—See page 2-16.

| 2 Pole Common Trip 240V AC (Fig. 1) | | | | 3 Pole Common Trip 240V AC (Fig. 2) | | | |
|-------------------------------------|-----------|-----------|---------------------------------|-------------------------------------|-----------|---------------------------------|---------------------------|
| Amps | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Wire Range Cu Al |
| 060 | MQJ260KH | 1419.00 | 3.00 | MQJ360KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 070 | MQJ270KH | 1419.00 | 3.00 | MQJ370KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 080 | MQJ280KH | 1419.00 | 3.00 | MQJ380KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 090 | MQJ290KH | 1419.00 | 3.00 | MQJ390KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 100 | MQJ2100KH | 1419.00 | 3.00 | MQJ3100KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 110 | MQJ2110KH | 1419.00 | 3.00 | MQJ3110KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 125 | MQJ2125KH | 1419.00 | 3.00 | MQJ3125KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 150 | MQJ2150KH | 1419.00 | 3.00 | MQJ3150KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 175 | MQJ2175KH | 1419.00 | 3.00 | MQJ3175KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 200 | MQJ2200KH | 1419.00 | 3.00 | MQJ3200KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 225 | MQJ2225KH | 1419.00 | 3.00 | MQJ3225KH | 2169.00 | 4.10 | #6-300 kcmil #4-300 kcmil |

Type MQL 42,000 AIC

Figure 1

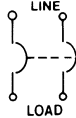
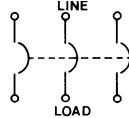


Figure 2



| 2 Pole Common Trip 240V AC (Fig. 1) | | | | 3 Pole Common Trip 240V AC (Fig. 2) | | | |
|-------------------------------------|-----------|-----------|---------------------------------|-------------------------------------|-----------|---------------------------------|---------------------------|
| Amps | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Catalog # | List Each | Std. Pkg. - 1 Approx. Wgt. Lbs. | Wire Range Cu Al |
| 060 | MQJ260KL | 1761.00 | 3.00 | MQJ360KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 070 | MQJ270KL | 1761.00 | 3.00 | MQJ370KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 080 | MQJ280KL | 1761.00 | 3.00 | MQJ380KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 090 | MQJ290KL | 1761.00 | 3.00 | MQJ390KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 100 | MQJ2100KL | 1761.00 | 3.00 | MQJ3100KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 110 | MQJ2110KL | 1761.00 | 3.00 | MQJ3110KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 125 | MQJ2125KL | 1761.00 | 3.00 | MQJ3125KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 150 | MQJ2150KL | 1761.00 | 3.00 | MQJ3150KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 175 | MQJ2175KL | 1761.00 | 3.00 | MQJ3175KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 200 | MQJ2200KL | 1761.00 | 3.00 | MQJ3200KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |
| 225 | MQJ2225KL | 1761.00 | 3.00 | MQJ3225KL | 2755.00 | 4.10 | #6-300 kcmil #4-300 kcmil |

Type QJ2/QJH2/QJ2H

2-Pole (240V AC)

| Continuous Current Rating @ 40° C | Type QJ2 10,000A IR | | Type QJH2 22,000A IR | | Type QJ2H 65,000A IR | |
|-----------------------------------|---------------------|---------------|----------------------|---------------|----------------------|---------------|
| | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 60 | QJ2060 | 447.00 | QJ2060KH | 1071.00 | QJ2060KL | 1330.00 |
| 70 | QJ2070 | 447.00 | QJ2070KH | 1071.00 | QJ2070KL | 1330.00 |
| 80 | QJ2080 | 447.00 | QJ2080KH | 1071.00 | QJ2080KL | 1330.00 |
| 90 | QJ2090 | 447.00 | QJ2090KH | 1071.00 | QJ2090KL | 1330.00 |
| 100 | QJ2100 | 447.00 | QJ2100KH | 1071.00 | QJ2100KL | 1330.00 |
| 110 | QJ2110 | 447.00 | QJ2110KH | 1071.00 | QJ2110KL | 1330.00 |
| 125 | QJ2125 | 447.00 | QJ2125KH | 1071.00 | QJ2125KL | 1330.00 |
| 150 | QJ2150 | 447.00 | QJ2150KH | 1071.00 | QJ2150KL | 1330.00 |
| 175 | QJ2175 | 447.00 | QJ2175KH | 1071.00 | QJ2175KL | 1330.00 |
| 200 | QJ2200 | 447.00 | QJ2200KH | 1071.00 | QJ2200KL | 1330.00 |
| 225 | QJ2225 | 447.00 | QJ2225KH | 1071.00 | QJ2225KL | 1330.00 |

3-Pole (240V AC)

| | | | | | | |
|-----|--------|---------|----------|---------|----------|---------|
| 60 | QJ3060 | 1172.00 | QJ3060KH | 1641.00 | QJ3060KL | 2082.00 |
| 70 | QJ3070 | 1172.00 | QJ3070KH | 1641.00 | QJ3070KL | 2082.00 |
| 80 | QJ3080 | 1172.00 | QJ3080KH | 1641.00 | QJ3080KL | 2082.00 |
| 90 | QJ3090 | 1172.00 | QJ3090KH | 1641.00 | QJ3090KL | 2082.00 |
| 100 | QJ3100 | 1172.00 | QJ3100KH | 1641.00 | QJ3100KL | 2082.00 |
| 110 | QJ3110 | 1172.00 | QJ3110KH | 1641.00 | QJ3110KL | 2082.00 |
| 125 | QJ3125 | 1172.00 | QJ3125KH | 1641.00 | QJ3125KL | 2082.00 |
| 150 | QJ3150 | 1172.00 | QJ3150KH | 1641.00 | QJ3150KL | 2082.00 |
| 175 | QJ3175 | 1172.00 | QJ3175KH | 1641.00 | QJ3175KL | 2082.00 |
| 200 | QJ3200 | 1172.00 | QJ3200KH | 1641.00 | QJ3200KL | 2082.00 |
| 225 | QJ3225 | 1172.00 | QJ3225KH | 1641.00 | QJ3225KL | 2082.00 |

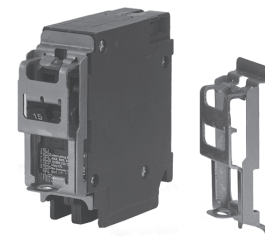
■ Built to order. Allow 2-3 weeks for delivery.

Circuit Breakers

External and Internal Accessories

Padlocking and Handle Blocking Devices

| Breaker Type | Padlocking Device | | Standard Package Qty. | Handle Blocking Device | | Standard Package Qty. |
|-------------------------|-------------------|------------|-----------------------|------------------------|------------|-----------------------|
| | Catalog # | List Price | | Catalog # | List Price | |
| M1 | ECPLD125 | \$9.10 | 1 | — | — | — |
| M2, MD | ECQLN3 | \$58.00 | 1 | — | — | — |
| MP-AT 1-pole | ECPLD1 | \$10.70 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-AT 2-pole | ECPLD2 | \$10.80 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-ET 1-pole | ECPLD1 | \$10.70 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-ET 2-pole | ECPLD2 | \$10.80 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-GT 1-pole | ECPLD1 | \$10.70 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-GT 2-pole | ECPLD2 | \$10.80 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-T 1-pole | ECPLD1 | \$10.70 | 3 | ECHBD1 | \$9.60 | 1 |
| MP-T 2-pole | ECPLD2 | \$10.80 | 3 | ECHBD1 | \$9.60 | 1 |
| MP-T duplex | ECPLD1 | \$10.70 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-T Surge | ECPLD2 | \$10.80 | 3 | ECHBD05 | \$7.00 | 1 |
| MP-T triplex & quadplex | ECPLD2 | \$10.80 | 3 | ECHBD05 | \$7.00 | 1 |
| QJ, MQ | BX225HL | \$17.70 | 1 | BX225HB | \$0.55 | 1 |



Padlocking Device ECPLD1



Handle Blocking Device ECHBD1

MT700

Replacement Lugs

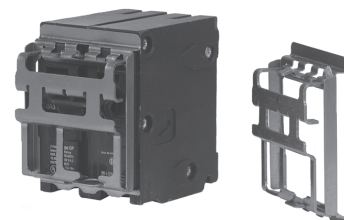
| Breaker Type | Qty. Cables Per Lug | Wire Range | Catalog Number | List Price \$ | Standard Package Qty. |
|-------------------------------|---------------------|----------------------------------|----------------|---------------|-----------------------|
| QJ2, QJH2, QJ2H, MQ, MQH, MQL | 1 | #6-300kcmil Cu or #4-300kcmil Al | LXA1225 | 16.10 | 3 |

Sub-Feed Lug Kits

| Amps | Poles | 1" Spaces Required | Catalog # | List Price \$ | Wire Range | |
|------|-------|--------------------|-----------|---------------|----------------|----------------|
| | | | | | Cu | Al |
| 125 | 2 | 2 | ECLK2125 | 32.50 | #6-#1/0 | #6-#2/0 |
| 150 | 2 | 4 | ECLK2150 | 106.00 | #14-#2/0 | #8-#3/0 |
| 150 | 3 | 6 | ECLK3150 | 86.00 | | |
| 225 | 2 | 4 | ECLK2225 | 157.00 | #1/0-300 kcmil | #1/0-300 kcmil |
| 225 | 3 | 6 | ECLK3225 | 215.00 | | |

Miscellaneous Accessories

| Description | Catalog Number | List Price \$ |
|----------------------|----------------|---------------|
| Handle Tie | ECHT2 | 4.70 |
| Mechanical Interlock | ECQML12 | 316.00 |



Padlocking Device ECPLD2

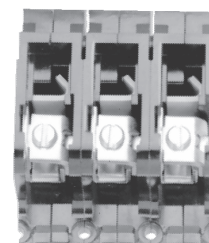
Internal Accessories

Shunt Trip Devices - factory installed only

| Breaker Type | 120V AC | | 24V DC | |
|-------------------|-----------|------------------|-----------|------------------|
| | Catalog # | List Price Adder | Catalog # | List Price Adder |
| MP-T | ...ST■ | \$134.00 | ...ST24V■ | \$134.00 |
| MQJ (3-pole only) | ...00S01■ | \$291.00 | ...00S07■ | \$291.00 |
| QJ2 | ...00S01■ | \$291.00 | ...00S07■ | \$291.00 |

Auxiliary Switches - factory installed only

| Breaker Type | 120V AC | | 24V DC | |
|--------------|-----------|------------------|-----------|------------------|
| | Catalog # | List Price Adder | Catalog # | List Price Adder |
| MP-T | ...AS■ | \$74.00 | ...AS24V | \$74.00 |
| QJ | ...01■ | \$234.00 | ...01■ | \$234.00 |

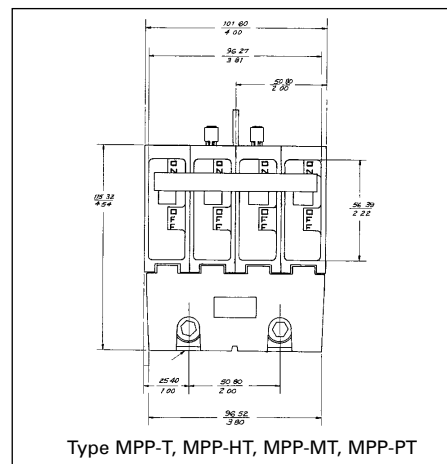
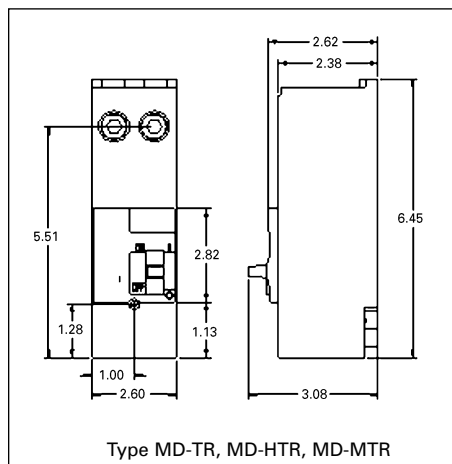
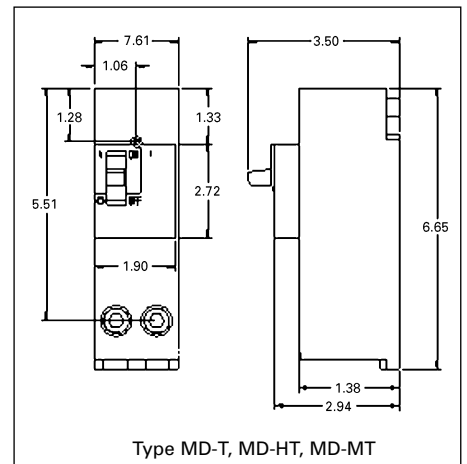
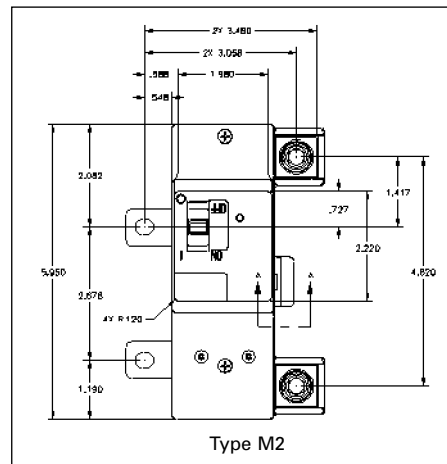
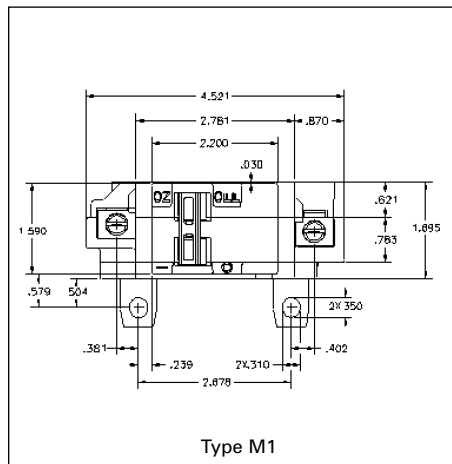
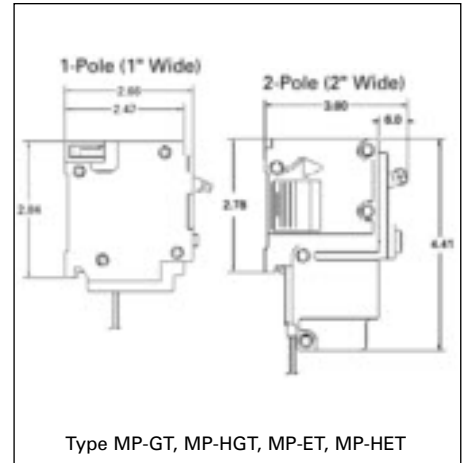
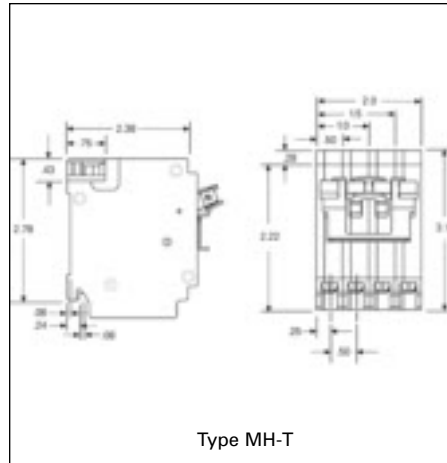
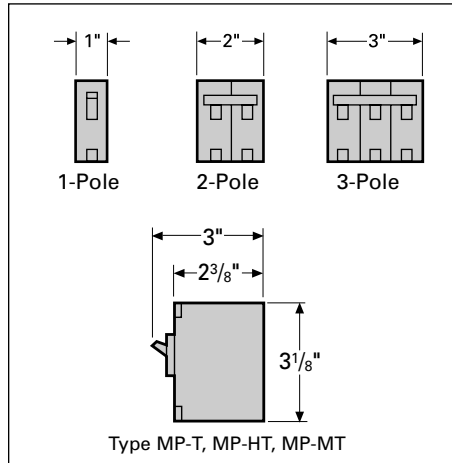


Lug Kit ECLK3150

Note: For additional ratings and applications consult your local Murray Sales Office.

Circuit Breakers

Line Diagrams



© All standard circuit breakers are calibrated to 40°C maximum ambient application.

Meter Centers

Meter Mounting Devices

General Information

Materials:

16 gauge, galvanized steel, G-90

Enclosures:

NEMA 3R

Finish:

Steel - Light gray, baked on powder polyester

Latches:

All swing latches are stainless steel

Block Material:

Glass reinforced polyester

Terminals:

Residential - Tin-plated aluminum extrusions 6061-T6
Commercial - Tin-plated copper and or tin plated aluminum

Accessories:

Factory installed hubs, coverplates, 5th terminals, oxide inhibitors, and barrel lock brackets available.

Standards:

Products cataloged herein meet or exceed the following standards:
UL 486B, UL 414, NEMA 250,
ANSI C12.7 UL File #30413

3

METERING

Siemens meter mounting devices utilize the high quality Landis & Gyr design known throughout the utility industry for more than 50 years. Siemens meter sockets are built for safety, ease of installation, and long term quality. That is why we use stainless steel hardware, polyester powder coat paint for long lasting protection, and Type G-90 galvanized steel for all of our enclosures. It is also why we use an all-copper current path in our commercial sockets. All of this means that the Siemens' Landis & Gyr brand is recognized throughout the industry as the quality leader.

Features:

- All enclosures feature type G90 galvanized steel with a durable polyester powder coat finish

- Residential single position sockets (types SUAT) feature a quad neutral as a standard feature
- Most commercial sockets include a ground lug & some models are available with line & load lugs installed
- Lever bypass sockets feature the Landis & Gyr type HQ socket which is recognized by utilities as the industry standard for durability & quality
- Siemens features one of the most complete and comprehensive meter socket lines available from any manufacturer
- All residential, all CQ, and all 200A HQ sockets with lay-in lugs features an internal & external hex on all set screws which allows for use of either an allen or socket wrench



SUAS877-PPZA
4-Jaw 1Ø 3W 200 Amp Residential Horn Bypass - Sidewire Design



Combination Head Screw features internal & external hex for use with either allen or socket wrench



S40407-02CO
7-Jaw 3Ø 4W 200 Amp Lever Bypass Type "HQ"



S48707-82GP
7-Jaw 3Ø 4W 320 Amp Lever Bypass Type HQ - Sidewire Design

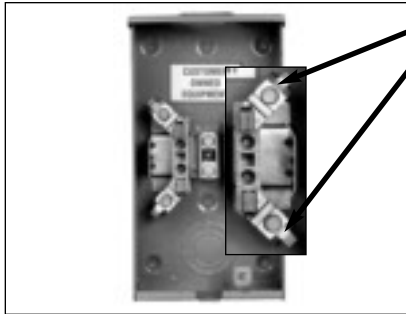


SUAT417-XG
4-Jaw 1Ø 3W 200 Amp Residential - No Bypass

Meter Centers

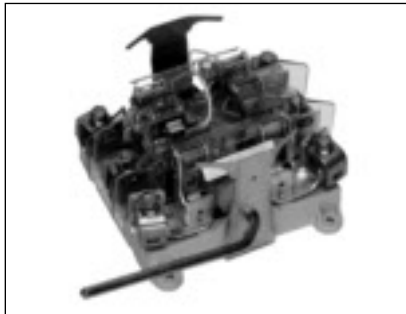
Meter Socket Bypass Types

There are several different bypass types used in the meter socket industry. The type of bypass used is dependent upon each individual utilities' requirements for that application. The illustrations and photos below will explain some of the basic bypass types seen in section 2 of the Siemens' speedfax. This page is meant for informative purposes only and is not meant to imply or convey the use of any particular bypass or inter-changing of any types of bypass for any application. The local utility should always be contacted to ensure approval of equipment prior to installation. The types of bypasses listed below are for utility use only.



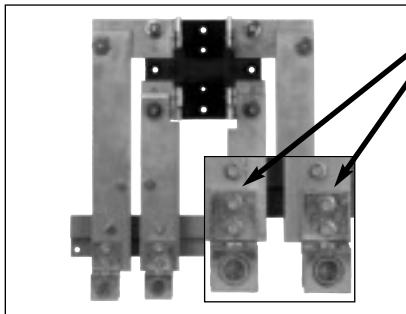
Horn Bypass:

Small tabs or "horns" on the line and load side of the meter socket act as electrical connection points for the utility to install a bypassing means- usually a specially produced wire or "jumper" designed for this specific application.



Lever Bypass:

A lever is used to rotate a plated copper blade between the line and load jaws. The Landis & Gyr lever bypass HQ socket also clamps on the meter when the bypass is dis-engaged. The bypass must be engaged to remove the meter then dis-engaged after the meter is installed. The bypass acts as an alternate path for current flow which helps to mitigate any arcing if the meter is being removed. This also ensures a constant current flow should the meter need to be removed.



Test Block Bypass:

Test Block Bypass sockets (TBB) have the line and load connectors mounted parallel to one another. This provides for a provision to bypass the meter by placing a jumper on the line and load bus. Note that this type of bypass is used primarily by those utilities subscribing to the EUSERC metering standards.

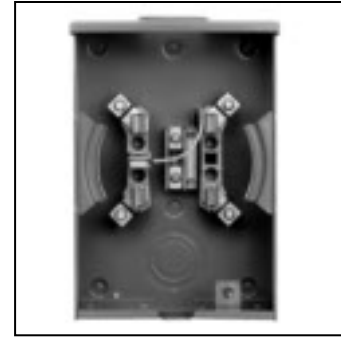
Meter Sockets



SUAT111-0PQG



SUAT111-0G



SUAT111-0MXA

135 Amp Continuous Meter Mounting Equipment— Ringless Type, 1 Phase, 3 Wire, 600V 1 Position Residential

| Catalog Number | Replaces | Dimensions (inches) | | | Amps | Cont. Service | Wire Range | No. of Jaws | 5th Jaw | Hub | KO Fig. | List Price \$ |
|---------------------------|----------|---------------------|-----|-----|------|---------------|------------|-------------|------------|----------------------|---------|---------------|
| | | H | W | D | | | | | | | | |
| HORN BYPASS | | | | | | | | | | | | |
| SUAT111-0PZA ^① | RJ192PX | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | RX Opening | 1 | 99.05 |
| SUAT111-0PQG | RJ193AX | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | RX Opening | 1 | 95.85 |
| SUAT111-0PV ^② | RJ193CXJ | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 5 | EC659-0121 | RX Opening | 1 | 93.00 |
| SUAT111-BPQG | RJ192AC | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | 1-1/2" Hub Installed | 1 | 145.91 |
| NO BYPASS | | | | | | | | | | | | |
| SUAT111-BG | RJ103AC | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | 1-1/2" Hub Installed | 1 | 140.58 |
| SUAT111-0MXA ^① | RJ102CXJ | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 5 | Installed | RX Opening | 1 | 101.18 |
| SUAT111-0G | RJ103AX | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | RX Opening | 1 | 104.37 |
| SUAT111-0GF ^③ | RJ103AXF | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | RX Opening | 1 | 92.66 |
| SUAT111-PG | RN102A | 11.7 | 8.0 | 3.6 | 135 | UG | #14-2/0 | 4 | EC659-0121 | None | 1 | 99.05 |

135 Amp Continuous Meter Mounting Equipment— Ring Type, 1 Phase, 3 Wire, 600V 1 Position Residential^④

| Catalog Number | Dimensions (inches) | | | Amps | Cont. Service | Wire Range | No. of Jaws | 5th Jaw | Hub | KO Fig. | List Price \$ |
|------------------|---------------------|-----|-----|------|---------------|------------|-------------|------------|----------------------|---------|---------------|
| | H | W | D | | | | | | | | |
| NO BYPASS | | | | | | | | | | | |
| SN152CX | 11.7 | 8.0 | 3.6 | 135 | OH | #14-2/0 | 5 | Installed | RX Opening | 1 | 108.63 |
| SN152CC | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 5 | Installed | 1-1/2" Hub Installed | 1 | 124.61 |
| SJ102AX | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | RX Opening | 1 | 90.53 |
| SJ102AC | 11.7 | 8.0 | 3.6 | 135 | OH/UG | #14-2/0 | 4 | EC659-0121 | 1-1/2" Hub Installed | 1 | 91.59 |
| SN102A | 11.7 | 8.0 | 3.6 | 135 | UG | #14-2/0 | 4 | EC659-0121 | None | 1 | 99.05 |
| SN152C | 11.7 | 8.0 | 3.6 | 135 | UG | #14-2/0 | 5 | Installed | None | 1 | 108.63 |

Contact utility or sales office for approval by your local utility prior to installation.

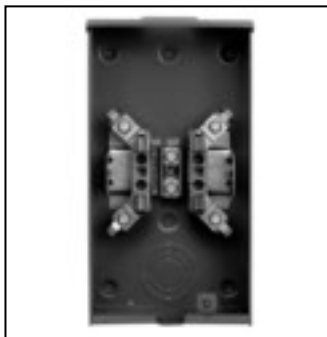
All devices listed on this page include (2) ground lugs

①7/16" Barrel lock knockout
 ②7/8" Barrel lock knockout
 ③Stainless steel latch and hasp
 ④Sealing ring included

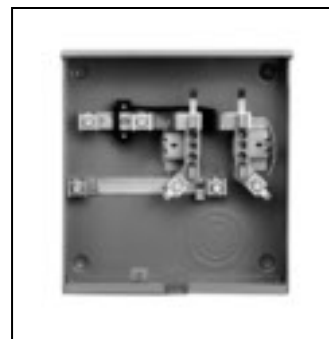
Meter Sockets



SUAT417-XPQG



SUAT317-0PQG



SUAS877-PPZ

200 Amp Continuous 250 Amp Max Meter Mounting Equipment Ringless Type, 1 Phase, 3 Wire, 600V 1 Position Residential

| Catalog Number | Replaces | Dimensions (inches) | | | Amps | Cont. Service | Wire Range | No. of Jaws | 5th Jaw | Hub | KO Fig. | List Price \$ |
|----------------------------|-----------|---------------------|------|-----|------|---------------|------------|-------------|------------|---------------|---------|---------------|
| | | H | W | D | | | | | | | | |
| HORN BYPASS | | | | | | | | | | | | |
| SUAT317-0PQG | RS192AX | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 2 | 138.45 |
| SUAT317-0FP ^② | RS192CXJ | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 5 | Installed | RX Opening | 2 | 203.42 |
| SUAT317-0PGP ^② | RB193CXJ | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 2 | 203.42 |
| SUAT317-0PZA ^① | RS192PX | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 2 | 138.45 |
| SUAT417-XPQG | RB198AR | 14.8 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3A | 187.44 |
| SUAT417-XPQG | RS192A | 14.8 | 11.0 | 4.5 | 200 | UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3B | 264.12 |
| SUAT417-XFP ^② | RS192COJ | 14.8 | 11.0 | 4.5 | 200 | UG | #6-350 | 5 | Installed | RX CL. Plate | 3B | 203.42 |
| SUAS877-PPZ | RL199A | 14.0 | 13.0 | 5.1 | 200 | UG-SW | #6-350 | 4 | EC659-0121 | None | 6 | 264.12 |
| SUAS877-PPZA ^① | RL199P | 14.0 | 13.0 | 5.1 | 200 | UG-SW | #6-350 | 4 | EC659-0121 | None | 6 | 267.32 |
| SUAS877-PPGP ^② | RL199CJ | 14.0 | 13.0 | 5.1 | 200 | UG-SW | #6-350 | 5 | Installed | None | 6 | 275.84 |
| NO BYPASS | | | | | | | | | | | | |
| SUAT317-DGZ | RS103AL | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | EC38599 Inst. | 2 | 131.00 |
| SUAT317-0GF ^③ | RS103AXF | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 1 | 161.88 |
| SUAT317-0G | RS103AX | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 1 | 146.97 |
| SUAT317-0FP ^② | RB103CXJ | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 5 | Installed | RX Opening | 2 | 203.42 |
| SUAT417-XGF ^③ | RS109ARF | 14.8 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3A | 138.45 |
| SUAT417-XG | RS109AR | 14.8 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3A | 192.77 |
| SUAT618-XGNM ^{②④} | RB103CXJR | 22.0 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 5 | 320.57 |
| SUAT417-XGDU | RB103AR | 14.8 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3A | 204.48 |
| SUAT417-PG | RS103AVF | 14.8 | 11.0 | 4.5 | 200 | UG | #6-350 | 4 | EC659-0121 | None | 3B | 103.31 |
| SUAT517-PDG ^① | RS109A | 19.0 | 13.5 | 6.3 | 200 | UG | #6-350 | 4 | EC659-0121 | None | 4 | 166.14 |
| SUAT417-PG | RS103A | 14.8 | 11.0 | 4.5 | 200 | UG | #6-350 | 4 | EC659-0121 | None | 3B | 103.31 |
| SUAS877-PG ^① | RL109A | 14.0 | 13.0 | 5.1 | 200 | UG-SW | #6-350 | 4 | EC659-0121 | None | 6 | 264.12 |

200 Amp Continuous 250 Amp Max Meter Mounting Equipment Ring Type, 1 Phase, 3 Wire, 600V 1 Position Residential

| Catalog Number | Dimensions (inches) | | | Amps | Cont. Service | Wire Range | No. of Jaws | 5th Jaw | Hub | KO Fig. | List Price \$ |
|------------------|---------------------|------|-----|------|---------------|------------|-------------|------------|--------------|---------|---------------|
| | H | W | D | | | | | | | | |
| NO BYPASS | | | | | | | | | | | |
| SS152CX | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 5 | Installed | RX Opening | 2 | 140.58 |
| SS102AX | 14.8 | 8.0 | 4.5 | 200 | OH | #6-350 | 4 | EC659-0121 | RX Opening | 2 | 125.67 |
| SS109AR | 14.8 | 11.0 | 4.5 | 200 | OH/UG | #6-350 | 4 | EC659-0121 | RX CL. Plate | 3A | 161.88 |
| SS152C | 14.8 | 11.0 | 4.5 | 200 | UG | #6-350 | 5 | Installed | None | 3B | 178.92 |

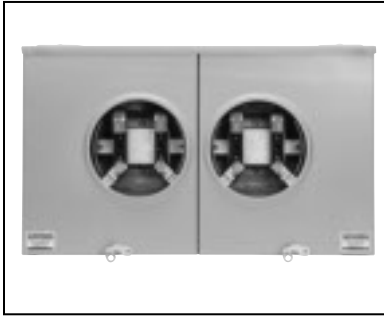
Contact utility or sales office for approval by your local utility prior to installation.

All SUAT type devices listed on this page include (2) ground lugs.

①7/16" Barrel lock knockout
 ②7/8" Barrel lock knockout
 ③Stainless steel latch and hasp
 ④Lugs not included please see accessory section for lug selection

Meter Sockets

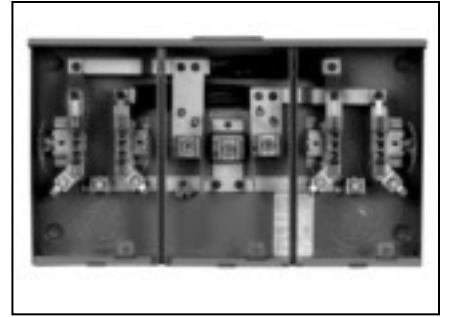
Ringless Type



RN291PR



RN201CR



RM291PR

100 Amp/Position Meter Mounting Equipment 1 Phase, 3 Wire, 300V Multi-Position Residential End Feed

| Catalog Number | Dimensions (inches) | | | Bus Amps | Cont. Amps | Service | No. of Pos. | No. of Jaws | 5th Jaw | Hub | Line Lugs | Load Lugs | KO Fig. | List Price \$ |
|----------------------|---------------------|------|-----|----------|------------|---------|-------------|-------------|------------|------------|-----------|-----------|---------|---------------|
| | H | W | D | | | | | | | | | | | |
| HORN BYPASS | | | | | | | | | | | | | | |
| RN291AR [Ⓞ] | 14.1 | 24.3 | 5.3 | 200 | 100 | OH/UG | 2 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 27 | 324.83 |
| RN291PR [Ⓞ] | 14.1 | 24.3 | 5.3 | 200 | 100 | OH/UG | 2 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 27 | 324.83 |
| RN391AR [Ⓞ] | 14.1 | 32.3 | 5.3 | 200 | 100 | OH/UG | 3 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 28 | 455.82 |
| RN391PR [Ⓞ] | 14.1 | 32.3 | 5.3 | 200 | 100 | OH/UG | 3 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 28 | 455.82 |
| RN491AR [Ⓞ] | 14.1 | 40.5 | 5.3 | 200 | 100 | OH/UG | 4 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 29 | 590.01 |
| RN491PR [Ⓞ] | 14.1 | 40.5 | 5.3 | 200 | 100 | OH/UG | 4 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 29 | 590.01 |
| NO BYPASS | | | | | | | | | | | | | | |
| RN201CR | 14.6 | 24.3 | 5.3 | 200 | 100 | OH/UG | 2 | 5 | Installed | RX Opening | #6-250 | #8-2/0 | 27 | 324.83 |
| RN301CR | 14.6 | 32.3 | 5.3 | 200 | 100 | OH/UG | 3 | 5 | Installed | RX Opening | #6-250 | #8-2/0 | 28 | 455.82 |
| RN401CR | 14.6 | 40.5 | 5.3 | 200 | 100 | OH/UG | 4 | 5 | Installed | RX Opening | #6-250 | #8-2/0 | 29 | 590.01 |

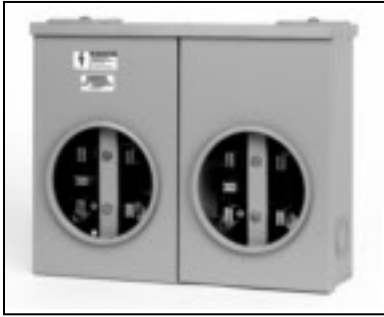
200 Amp/Position Meter Mounting Equipment 1 Phase, 3 Wire, 600V Multi-Position Residential Center Feed[Ⓞ]

| Catalog Number | Dimensions (inches) | | | Bus Amps | Cont. Amps | Service | No. of Pos. | No. of Jaws | 5th Jaw | Hub | Line Lugs | Load Lugs | KO Fig. | List Price \$ |
|--------------------|---------------------|------|-----|----------|------------|---------|-------------|-------------|-----------|--------------|-----------|-----------|---------|---------------|
| | H | W | D | | | | | | | | | | | |
| HORN BYPASS | | | | | | | | | | | | | | |
| RM291PR | 14.5 | 24.5 | 5.1 | 200 | 200 | OH/UG | 2 | 5 | Installed | HD CL. Plate | #1/0-600 | #6-350 | 19 | 337.61 |
| RM391PR | 14.5 | 33.3 | 5.1 | 270 | 200 | OH/UG | 3 | 5 | Installed | HD CL. Plate | #1/0-600 | #6-350 | 20 | 446.24 |
| RM491PR | 14.5 | 43.0 | 5.1 | 360 | 200 | OH/UG | 4 | 5 | Installed | HD CL. Plate | #1/0-600 | #6-350 | 21 | 605.99 |

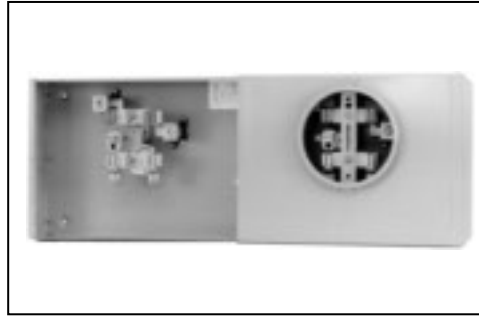
[Ⓞ]7/16" Barrel lock knockout.
[Ⓞ]7/8" Barrel lock knockout.

Meter Sockets

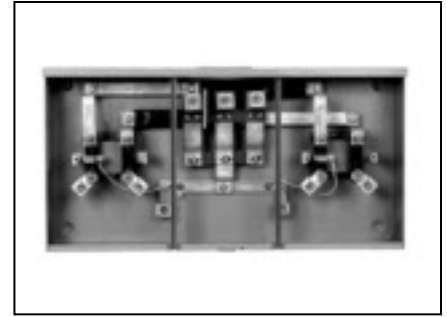
Ring Type



SN251CR



SC250C



SS251CR

100/80 Amp/Position Meter Mounting Equipment 1 Phase, 3 Wire, 300V Multi-Position Residential End Feed

| Catalog Number | Dimensions (inches) | | | Bus Amps | Cont. Amps | Service | No. of Pos. | No. of Jaws | 5th Jaw | Hub | Line Lugs | Load Lugs | KO Fig. | List Price \$ |
|---------------------|---------------------|------|-----|----------|------------|---------|-------------|-------------|------------|--------------|-----------|-----------|---------|---------------|
| | H | W | D | | | | | | | | | | | |
| NO BYPASS | | | | | | | | | | | | | | |
| SN211AR | 14.1 | 27.6 | 5.3 | 200 | 100 | OH/UG | 2 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 27 | 324.83 |
| SN311AR | 14.1 | 35.8 | 5.3 | 200 | 100 | OH/UG | 3 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 28 | 455.82 |
| SN411AR | 14.1 | 44.0 | 5.3 | 200 | 100 | OH/UG | 4 | 4 | EC659-0121 | RX Opening | #6-250 | #8-2/0 | 29 | 590.01 |
| SN251CR | 13.5 | 16.8 | 4.1 | 200 | 100 | OH | 2 | 5 | Installed | RX CL. Plate | #6-250 | #8-2/0 | 30 | 404.70 |
| SN351CR | 13.5 | 25.5 | 4.1 | 200 | 100 | OH | 3 | 5 | Installed | RX CL. Plate | #6-250 | #8-2/0 | 31 | 590.01 |
| SN451CR | 13.5 | 34.1 | 4.1 | 200 | 100 | OH | 4 | 5 | Installed | RX CL. Plate | #6-250 | #8-2/0 | 32 | 772.13 |
| SC150C [Ⓞ] | 11.3 | 15.3 | 3.9 | 200 | 80 | OH/UG | 1 | 5 | Installed | 1.25" KO | #6-4/0 | #8-2/0 | 24 | 176.00 |
| SC250C [Ⓞ] | 11.3 | 30.5 | 3.9 | 200 | 80 | OH/UG | 2 | 5 | Installed | 1.25" KO | #6-4/0 | #8-2/0 | 25 | 351.00 |
| SC350C [Ⓞ] | 11.3 | 45.6 | 3.9 | 200 | 80 | OH/UG | 3 | 5 | Installed | 1.25" KO | #6-4/0 | #8-2/0 | 26 | 531.00 |

100 Amp/Position Meter Mounting Equipment 1 Phase, 3 Wire, 300V Multi-Position Vertical Mounting

| Catalog Number | Dimensions (inches) | | | Bus Amps | Cont. Amps | Service | No. of Pos. | No. of Jaws | 5th Jaw | Hub | Line Lugs | Load Lugs | KO Fig. | List Price \$ |
|----------------|---------------------|---|-----|----------|------------|---------|-------------|-------------|-----------|------------|-----------|-----------|---------|---------------|
| | H | W | D | | | | | | | | | | | |
| NO BYPASS | | | | | | | | | | | | | | |
| SN205CX | 25.6 | 8 | 4.4 | 200 | 100 | OH | 2 | 5 | Installed | RX Opening | #8-350 | #8-2/0 | 44 | 426.00 |
| SN305CX | 37.9 | 8 | 4.4 | 200 | 100 | OH | 3 | 5 | Installed | RX Opening | #8-350 | #8-2/0 | 45 | 609.18 |

200 Amp/Position Meter Mounting Equipment 1 Phase, 3 Wire, 300V Multi-Position Residential Center Feed

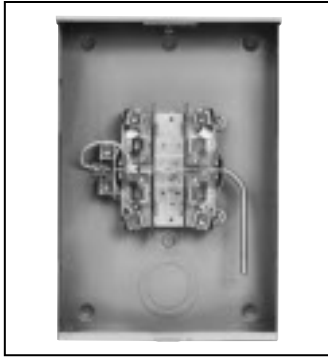
| Catalog Number | Dimensions (inches) | | | Bus Amps | Cont. Amps | Service | No. of Pos. | No. of Jaws | 5th Jaw | Hub | Line Lugs | Load Lugs | KO Fig. | List Price \$ |
|----------------|---------------------|----|-----|----------|------------|---------|-------------|-------------|-----------|------------|-----------|-----------|---------|---------------|
| | H | W | D | | | | | | | | | | | |
| NO BYPASS | | | | | | | | | | | | | | |
| SS251CR | 14.1 | 28 | 5.4 | 200 | 200 | OH/UG | 2 | 5 | Installed | HD Opening | #1/0-500 | #8-250 | 19 | 438.78 |
| SS351CR | 14.1 | 38 | 5.4 | 270 | 200 | OH/UG | 3 | 5 | Installed | HD Opening | #1/0-500 | #8-250 | 20 | 613.44 |
| SS451CR | 14.1 | 48 | 5.4 | 360 | 200 | OH/UG | 4 | 5 | Installed | HD Opening | #1/0-500 | #8-250 | 21 | 787.04 |

Contact utility or sales office for approval by your local utility prior to installation.

[Ⓞ]Unit is unbussed, indoor, and gangable.

Meter Sockets

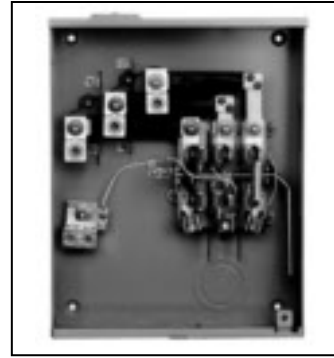
No Bypass & Lever Bypass Types



RH173CR



RH173GR



RL178GRJ

100 Continuous Amp Ring Type Meter Mounting Equipment No Bypass, 3 Phase, 4 Wire, 600V Commercial/Industrial^⑤

| Catalog Number | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|----------------|---------------------|-----|-----|------------|---------|------------|-------------|-------------|---------|---------------|
| | H | W | D | | | | | | | |
| 7 TERMINAL | | | | | | | | | | |
| SE750CR | 16.1 | 8.0 | 4.4 | 100 | OH | #14-1/0 | 7 | RX Opening | 36 | 221.52 |

200 Continuous Amp Ringless Type Meter Mounting Equipment Lever Bypass, 1 Phase, 3 Wire or 3 Phase, 3 Wire, 600V Commercial/Industrial

(These units not rated for 3 Phase, 4 Wire Service)

| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|---------------------------|------------|---------------------|------|-----|------------|---------|-------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| 5 TERMINAL | | | | | | | | | | | |
| RH173CR ^② | — | 19.0 | 13.0 | 5.1 | 200 | OH/UG | #6-350 | 5 | RX CL. Plate | 9 | 459.02 |
| RH173CRF ^{②③④} | — | 19.0 | 13.0 | 5.1 | 200 | OH/UG | #6-350 | 5 | RX CL. Plate | 9 | 463.28 |
| RH173CRJ ^② | — | 19.0 | 13.0 | 5.1 | 200 | OH/UG | #6-350 | 5 | RX CL. Plate | 9 | 463.28 |
| S42505-02RG ^{②④} | RH173CRR | 19.0 | 13.0 | 5.1 | 200 | OH/UG | 3/8-24 Stud | 5 | RX CL. Plate | 9 | 463.28 |
| S40405-0BNU ^① | RH173CRJNU | 28.0 | 13.0 | 5.1 | 200 | OH/UG | #6-350 | 5 | RX Opening | 9 | 448.37 |
| S48805-0BNU ^{①④} | RH178CRJNU | 22.0 | 16.0 | 5.0 | 200 | OH/UG | #6-350 | 5 | RX CL. Plate | 10 | 548.48 |

200 Continuous Amp Ringless Type Meter Mounting Equipment Lever Bypass, 3 Phase, 4 Wire, 600V Commercial/Industrial^④

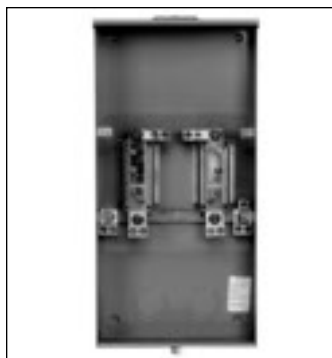
| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|--------------------------|------------|---------------------|------|-----|------------|---------|------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| 7 TERMINAL | | | | | | | | | | | |
| RH173GR ^② | — | 19.0 | 13.0 | 5.2 | 200 | OH/UG | #6-350 | 7 | RX CL. Plate | 9 | 581.49 |
| RH173GRF ^{②③} | — | 19.0 | 13.0 | 5.2 | 200 | OH/UG | #6-350 | 7 | RX CL. Plate | 9 | 594.27 |
| RH173GRJ ^② | — | 19.0 | 13.0 | 5.1 | 200 | OH/UG | #6-350 | 7 | RX CL. Plate | 9 | 594.27 |
| S9804-9142 ^② | RL178GRJ | 20.0 | 16.0 | 5.1 | 200 | UG-SW | #6-350 | 7 | RX CL. Plate | 33 | 717.81 |
| S40407-01NU ^① | RH173GRJNU | 19.0 | 13.0 | 5.2 | 200 | OH/UG | #6-350 | 7 | RX Opening | 9 | 532.50 |
| S48807-02NU ^① | RH178GRJNU | 22.0 | 16.0 | 5.0 | 200 | OH/UG | #6-350 | 7 | RX CL. Plate | 10 | 630.48 |

Contact utility or sales office for approval by your local utility prior to installation.

①7/16" Barrel lock knockout
 ②7/8" Barrel lock knockout
 ③Stainless steel latch and hasp
 ④Ground lug included
 ⑤No bypass installed or available

Meter Sockets

Ringless Type, Lever Bypass & No Bypass Types



RK48507



S48104-02



RK78061

320 Amp Continuous/400 Amp Max Meter Mounting Equipment Lever Bypass, 1 Phase, 3 Wire or 3 Phase, 3 Wire, 600V^{③⑤} Commercial/Industrial

(These units not rated for 3 Phase, 4 Wire Service)

| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|---------------------------|------------|---------------------|------|-----|------------|----------|-------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| 4 or 5 TERMINAL | | | | | | | | | | | |
| S48704-82GP ^{②④} | RK178A | 34.0 | 20.0 | 6.0 | 320 | OH/UG-SW | 3/8-24 Stud | 4 | HD CL. Plate | 11 | 719.94 |
| RK178C-LI ^② | — | 34.0 | 20.0 | 6.0 | 320 | OH/UG-SW | 3/8-24 Stud | 5 | HD CL. Plate | 11 | 672.02 |
| S47704-01NU ^① | RK173AH | 28.0 | 14.0 | 6.0 | 320 | OH/UG | 1/2-20 Stud | 4 | HD Opening | 13 | 647.52 |
| S47705-01NU ^② | RK173CH | 28.0 | 14.0 | 6.0 | 320 | OH/UG | 1/2-20 Stud | 5 | HD Opening | 13 | 773.19 |
| S48104-02 | RK178ARR | 31.0 | 16.0 | 5.1 | 320 | OH/UG-SW | 3/8-24 Stud | 4 | HD CL. Plate | 14 | 1016.01 |
| S9804-9144 ^① | RK173AHJNU | 22.0 | 16.0 | 6.0 | 320 | OH/UG | 3/8-24 Stud | 4 | HD Opening | 13 | 498.42 |
| S9804-9146 ^① | RK178AHJNU | 34.0 | 20.0 | 6.0 | 320 | OH/UG | 3/8-24 Stud | 4 | HD CL. Plate | 11 | 749.76 |

320 Amp Continuous 400 Amp Max Meter Mounting Equipment Lever Bypass, 3 Phase, 4 Wire, 600V, Commercial/Industrial^{③⑤}

| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|---------------------------|------------|---------------------|------|-----|------------|----------|-------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| 7 TERMINAL | | | | | | | | | | | |
| S48707-82GP ^{②④} | RK178G | 34.0 | 20.0 | 6.0 | 320 | OH/UG-SW | 3/8-24 Stud | 7 | HD CL. Plate | 11 | 870.11 |
| S47707-01NU ^① | RK173GH | 28.0 | 14.0 | 6.0 | 320 | OH/UG | 1/2-20 Stud | 7 | HD Opening | 13 | 773.19 |
| S9804-9145 ^① | RK173GHJNU | 22.0 | 16.0 | 6.0 | 320 | OH/UG | 3/8-24 Stud | 7 | HD Opening | 34 | 634.74 |
| S9804-9147 ^① | RK178GHJNU | 34.0 | 20.0 | 6.0 | 320 | OH/UG | 3/8-24 Stud | 7 | HD CL. Plate | 11 | 890.34 |

400 Amp Continuous 400 Amp Max Meter Mounting Equipment No Bypass, 1 Phase, 3 Wire, 300V, Commercial/Industrial^{①③④}

| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|--|----------|---------------------|------|-----|------------|---------|------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| Landis & Gyr Type K4UT Bolt-on Meter Socket | | | | | | | | | | | |
| 4 TERMINAL | | | | | | | | | | | |
| RK48507 | — | 36.0 | 18.0 | 6.1 | 400 | OH/UG | (2) #4-500 | 4 | HD CL. Plate | 38 | 877.56 |

400 Amp Continuous 400 Amp Max Meter Mounting Equipment No Bypass, 3 Phase, 4 Wire, 600V, Commercial/Industrial^{③⑤⑥}

| Catalog Number | Replaces | Dimensions (inches) | | | Cont. Amps | Service | Wire Range | No. of Jaws | Hub Opening | KO Fig. | List Price \$ |
|--|----------|---------------------|------|-----|------------|---------|-------------|-------------|--------------|---------|---------------|
| | | H | W | D | | | | | | | |
| Landis & Gyr Type K7 Bolt-on Meter Socket | | | | | | | | | | | |
| RK78061 | — | 34.0 | 20.0 | 6.0 | 400 | UG | 1/2-20 Stud | 7 | HD CL. Plate | 15 | 1646.49 |

Contact utility or sales office for approval by your local utility prior to installation.

①7/16" Barrel lock knockout
 ②7/8" Barrel lock knockout
 ③Ground lug included
 ④Anti-inversion clip included

⑤Lugs not included, order separately
 ⑥Bolt-in meter socket

Meter Sockets

Ring Type & CT Metering



RTU121815



MS14TB



RP118SW

Ring Type EUSERC-Approved Safety Sockets

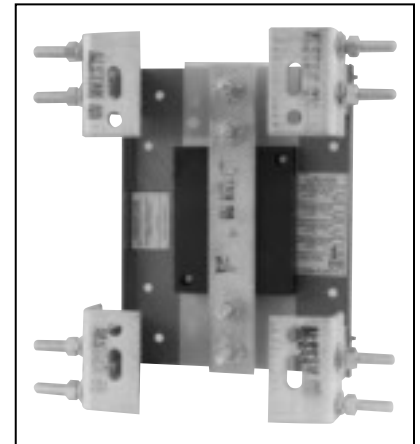
| Catalog Number | Replaces | Dimensions—Inches | | | Amps Cont. Duty | Service | Hub | No. of Jaws | 5th Jaw | Wire Range Cu/Al | KO Fig. | List Price \$ |
|----------------|----------|-------------------|-----|----|-----------------|--------------|-----|-------------|-----------|---------------------------|---------|---------------|
| | | L | W | D | | | | | | | | |
| MS14TB | BY110GK | 24% | 12% | 4% | 100 | 1 ϕ -3W | RX | 4 | UX005B | #6-2/0 Box Lug | 39 | 578.00 |
| MS15TB | BY110HK | 24% | 12% | 4% | | 3 ϕ -3W | RX | 5 | INSTALLED | | 39 | 763.00 |
| MS17TB | BY110JK | 24% | 12% | 4% | | 3 ϕ -4W | RX | 7 | — | | 39 | 828.00 |
| MS24TB | BY120GK | 30% | 14% | 6% | 200 | 1 ϕ -3W | RX | 4 | UX001WL | #1/0-250 kcmil Lay-in Lug | 40 | 1078.00 |
| MS25TB | BY120HK | 30% | 14% | 6% | | 3 ϕ -3W | HC | 5 | INSTALLED | | 41 | 1266.00 |
| MS27TB | BY120JK | 30% | 14% | 6% | | 3 ϕ -4W | RX | 7 | — | | 40 | 1266.00 |

400 Ampere Transformer Rated CT-Meter Cabinet, (No Disconnect) 600V AC Max. ①②

| Catalog Number | Replaced by | Dimensions (in inches) | | | No. of Jaws | Hub | KO Fig. | List Price \$ |
|---|-------------|------------------------|-------|-------|-------------|-----|---------|---------------|
| | | L | W | D | | | | |
| 1 Phase-3 Wire | | | | | | | | |
| RTU121814 | — | 52.00 | 24.00 | 11.00 | 4 | — | 42 | 1403.00 |
| RTU121815 | — | 52.00 | 24.00 | 11.00 | 5 | — | 42 | 1415.00 |
| 3 Phase-3 Wire | | | | | | | | |
| RTU121818 | — | 52.00 | 24.00 | 11.00 | 8 | — | 42 | 1419.00 |
| 3 Phase-3 Wire or 3 Phase-4 Wire | | | | | | | | |
| RT121413 | 9837-8505 | 20.00 | 12.00 | 4.63 | 13 | RX | 43 | 749.76 |
| RTU122015 | — | 52.00 | 36.00 | 11.00 | 15 | — | 42 | 2334.00 |

CT Mounting Bases-400 Amp Max.

| Catalog Number | Replaces | Service | Max. AIC | Wire Range | List Price \$ |
|----------------|----------|------------------------|----------|----------------|---------------|
| RT6019A | — | 1 Phase/3 Phase-3 Wire | 10,000 | (2) NEMA Studs | 379.00 |
| RT6019HA | — | 1 Phase- 3 Wire | 50,000 | (2) NEMA Studs | 476.00 |
| RT6067A | — | 3 Phase- 4 Wire | 10,000 | (2) NEMA Studs | 708.00 |
| RT6067HA | — | 3 Phase- 4 Wire | 50,000 | (2) NEMA Studs | 830.00 |



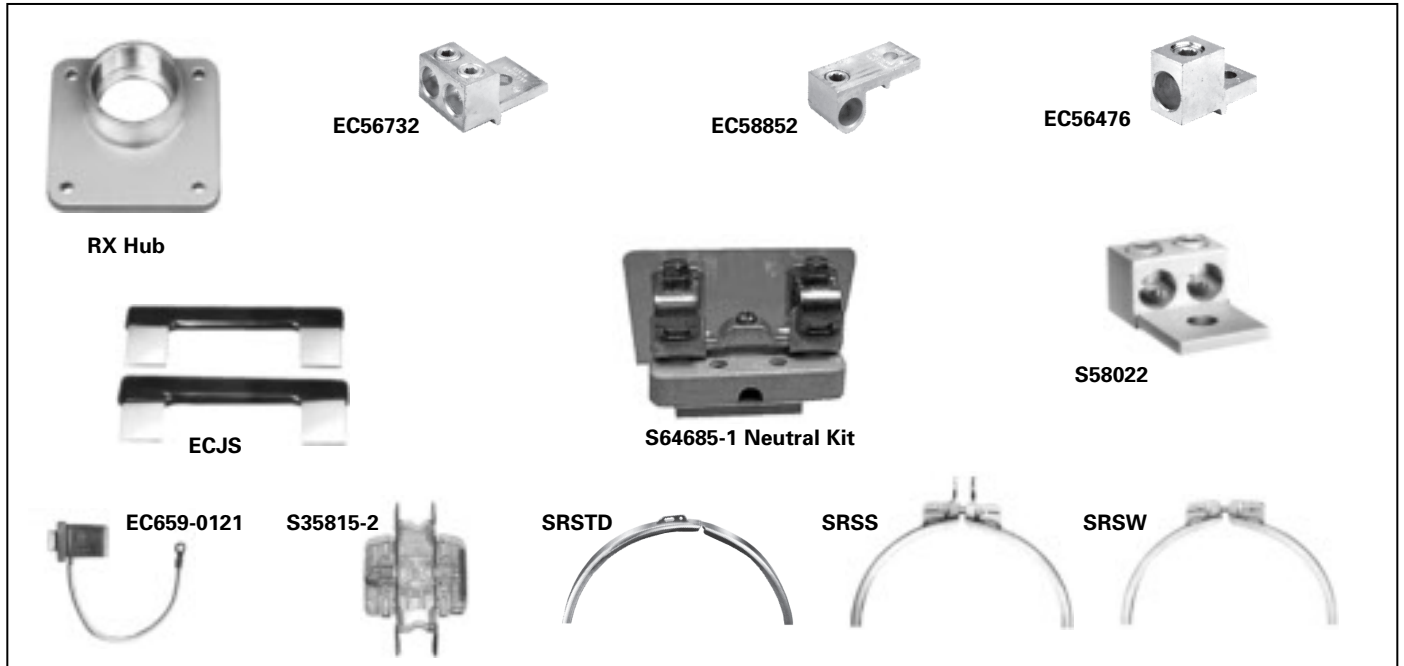
RT6019A

Contact utility or sales office for approval by your local utility prior to installation.

①CT mounting base not included, order from chart below
 ②Includes Test Switch mounting provision, and hub opening for overhead feed

Meter Centers

Accessories



5TH & 6TH Jaw Assemblies

| For Use With | Catalog Number | List Price \$ |
|---|----------------------|---------------|
| All SUAxxxx single and multiple position sockets | EC659-0121-grounded | 18.00 |
| All SUAxxxx single and multiple position sockets | EC659-0120-insulated | 18.53 |
| All Lever Bypass single position sockets | S35815-2 | 123.54 |
| SC and SD Unbussed Multiple-5th Jaw | WSX019 | 12.14 |
| Anti-Inversion clip for use with 320amp sockets when required | H59676 | 26.09 |

Sealing Rings

| Description | Catalog Number | List Price \$ |
|------------------------|----------------|---------------|
| Snap-On Type, aluminum | SRSTD | 17.47 |
| Snap-On Type, steel | SRSS | 19.38 |
| Screw Type, aluminum | SRSW | 25.03 |

Miscellaneous Accessories

| Description | Catalog Number | List Price \$ |
|---|----------------|---------------|
| Insulated Neutral Kit for "S404xx" sockets | EC64685 | 68.16 |
| Isolated Neutral Kit for S9817-8061 | S69685-1 | 218.00 |
| Bypass Kit for S9817-8061 | S69623 | 132.06 |
| Jumper-200 Amp Rated-use on SUAxxx sockets only | ECJS | 36.74 |
| Plastic Meter Cover- Ring | ECPP | 20.00 |
| Plastic Meter Cover- Ringless | ECCP3 | 22.50 |
| Neutral Isolation kit for 200amp lever bypass sockets | 64690-1 | 34.08 |

Lugs for 320 Amp & 400 Amp Sockets

| Socket Catalog Number | OH/UG | Wire Range | Lug Catalog Number ^① | | | | | |
|-------------------------------|-------|-------------------|---------------------------------|-----------|---------|-----------|----------------------|-----------|
| | | | Line | List Each | Neutral | List Each | Load | List Each |
| S47704-, S47705-, S47707-01NU | OH/UG | (1) 250-600 kcmil | EC56476 | 36.21 | EC56476 | 36.21 | EC56476 | 36.21 |
| | OH/UG | (2) #4-350 kcmil | EC56732 | 26.09 | EC56732 | 26.09 | EC56732 | 26.09 |
| RK48507 | OH/UG | (1) 250-800 kcmil | C183RKA ^② | 127.80 | — | — | C183RKB ^③ | 127.80 |
| | OH/UG | (2) #6-350 kcmil | C233RKA ^② | 107.57 | — | — | C233RKB ^③ | 107.57 |
| RK78061 | OH | (1) 250-800 kcmil | EC56476 | 36.21 | EC56476 | 36.21 | EC56476 | 36.21 |
| | OH | (2) #4-350 kcmil | EC56732 | 26.09 | EC56732 | 26.09 | EC56732 | 26.09 |
| | UG | (1) 250-800 kcmil | EC58852 | 36.74 | EC56476 | 36.21 | EC56476 | 36.21 |
| | UG | (2) #6-350 kcmil | S56427 | 44.20 | EC56732 | 26.09 | EC56732 | 26.09 |

① Each lug catalog number contains one lug unless otherwise noted. Order enough lugs to cover all terminations.

② Kit includes two line lugs and one neutral lug.
③ Kit includes two load lugs and one neutral lug.

Interchangeable Hubs

| Description | Catalog Number | Hub Size (Inches) | List Price \$ |
|------------------------|----------------|-------------------|---------------|
| RX CONDUIT HUBS | | | |
| | EC38594 | ¾ | 22.90 |
| | EC38596 | 1 | 37.81 |
| | EC38597 | 1¼ | 37.81 |
| | EC38598 | 1½ | 23.96 |
| | EC38599 | 2 | 23.96 |
| | EC38600 | 2½ | 107.57 |
| Closure Plate | EC38595 | — | 38.34 |

HC CONDUIT HUBS

| | | | |
|---------------|--------|----|--------|
| | EHC200 | 2 | 77.00 |
| | EHC250 | 2½ | 115.00 |
| | EHC300 | 3 | 186.00 |
| Closure Plate | EHC000 | — | 25.50 |

HD CONDUIT HUBS

| | | | |
|--------------------------------|-------------|----|--------|
| | EC56856 | 3 | 178.92 |
| | EC56857 | 3½ | 263.06 |
| | EC56858 | 4 | 119.28 |
| Adapter Plate convert HD to RX | EC9747-1113 | — | 28.76 |
| Closure Plate | EC56933S | — | 76.68 |

Meter Sockets

Knockout Diagrams

Figure 1

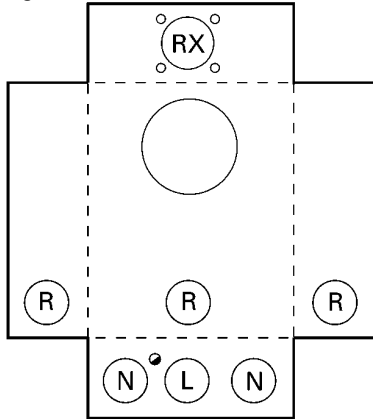


Figure 2

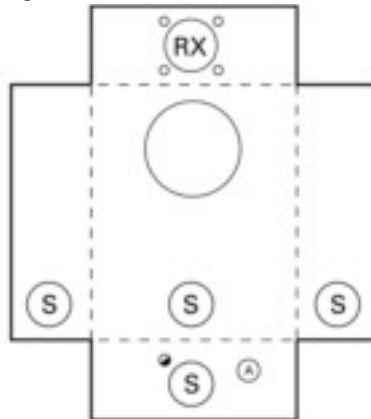


Figure 3A

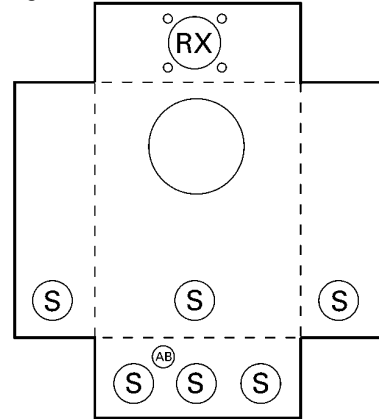


Figure 3B

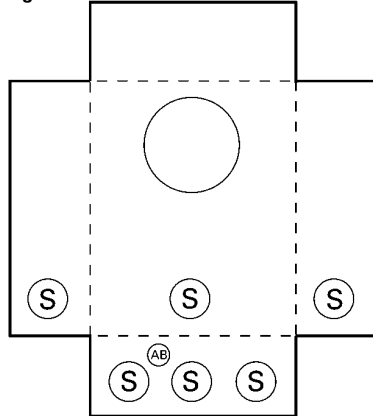


Figure 4

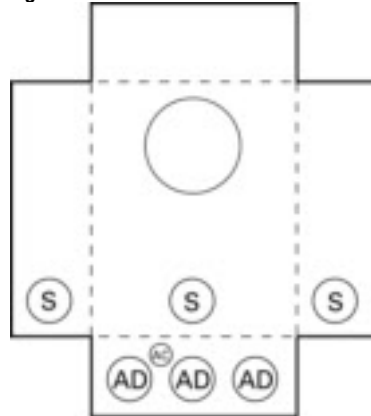


Figure 5

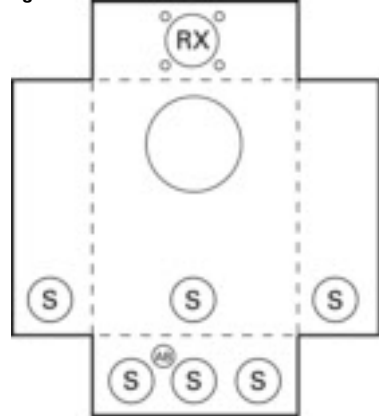


Figure 6

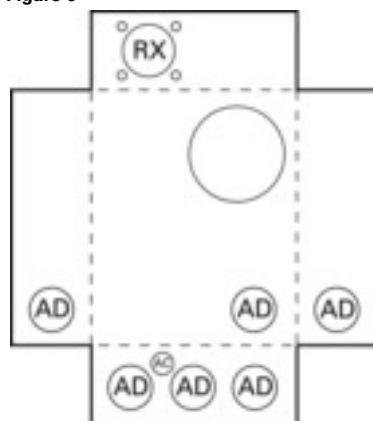
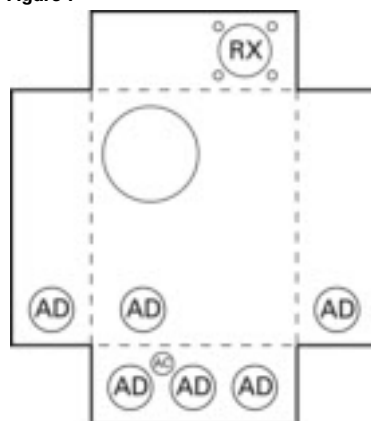


Figure 7



Knockout Code—Conduit Sizes

| | |
|----|-------------------------------------|
| ● | = 1/4 |
| A | = 1/2 |
| B | = 3/4 |
| L | = 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| N | = 3/4, 1, 1 1/4, 1 1/2, 2 |
| P | = 1, 1 1/4 |
| R | = 1, 1 1/4, 1 1/2, 2 |
| S | = 1, 1 1/4, 1 1/2, 2, 2 1/2 |
| X | = 1 1/4, 1 1/2, 2, 2 1/2 |
| Z | = 1 1/2, 2, 2 1/2 |
| K | = 3/4, 1 1/4 |
| EE | = 2, 2 1/2, 3 |
| GG | = 2 1/2, 3, 3 1/2 |
| HH | = 2 1/2, 3, 3 1/2, 4 |
| AB | = 1/4, 1/2, 3/4 |
| AC | = 1/4, 1/2 |
| AD | = 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AE | = 1/4, 1/2, 3/4, 1, 1 1/4 |
| AF | = 1, 1 1/4, 2, 2 1/2, 3 |
| AG | = 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AH | = 1/4, 1/2, 3/4 |
| AI | = 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| HD | = Ø4.281 HUB 0P |
| RX | = Ø2.750 HUB 0P |

Meter Sockets

Knockout Diagrams

Figure 8

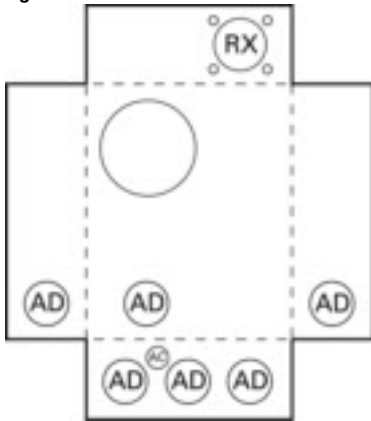


Figure 9

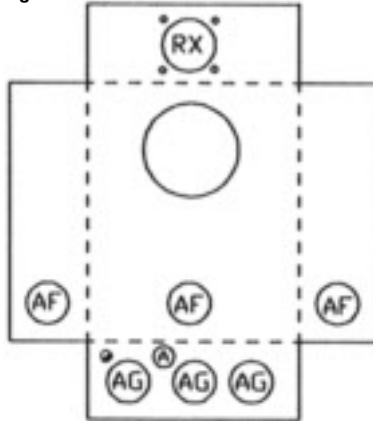


Figure 10

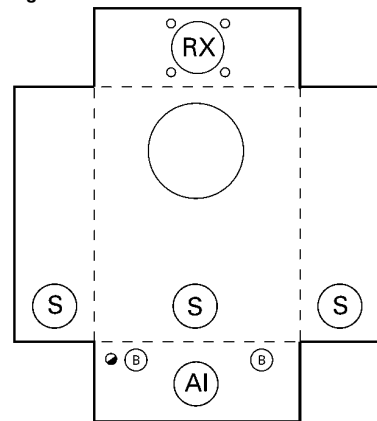


Figure 11

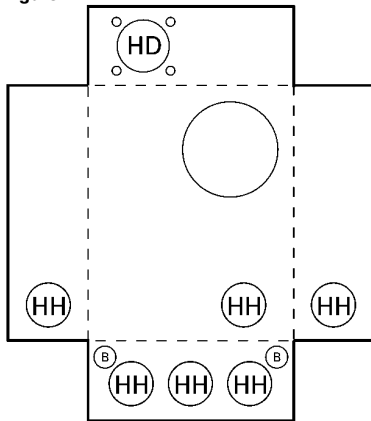


Figure 12

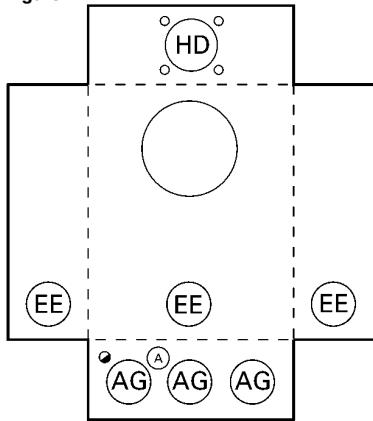


Figure 13

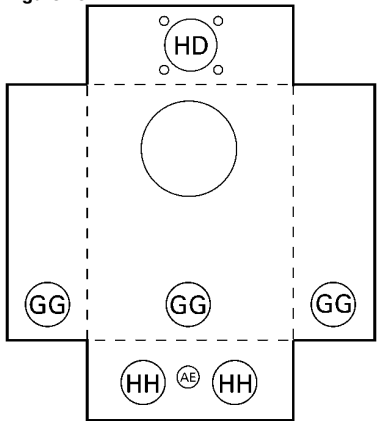


Figure 14

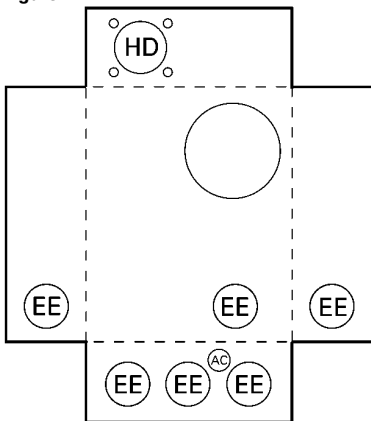
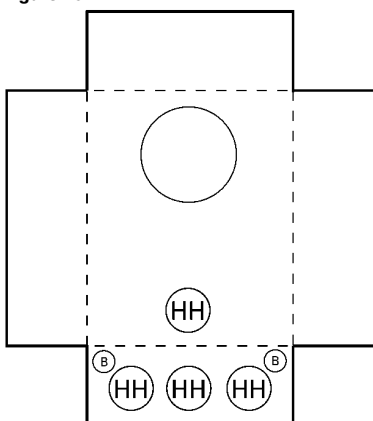


Figure 15



Knockout Code—Conduit Sizes

| | |
|----|-------------------------------------|
| ● | = 1/4 |
| A | = 1/2 |
| B | = 1/2, 3/4 |
| L | = 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| N | = 3/4, 1, 1 1/4, 1 1/2, 2 |
| P | = 1, 1 1/4 |
| R | = 1, 1 1/4, 1 1/2, 2 |
| S | = 1, 1 1/4, 1 1/2, 2, 2 1/2 |
| X | = 1 1/4, 1 1/2, 2, 2 1/2 |
| Z | = 1 1/2, 2, 2 1/2 |
| K | = 3/4, 1 1/4 |
| EE | = 2, 2 1/2, 3 |
| GG | = 2 1/2, 3, 3 1/2 |
| HH | = 2 1/2, 3, 3 1/2, 4 |
| AB | = 1/4, 1/2, 3/4 |
| AC | = 1/4, 1/2 |
| AD | = 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AE | = 1/4, 1/2, 3/4, 1, 1 1/4 |
| AF | = 1, 1 1/2, 2, 2 1/2, 3 |
| AG | = 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AH | = 1/4, 1/2, 3/4 |
| AI | = 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| HD | = Ø4.281 HUB 0P |
| RX | = Ø2.750 HUB 0P |

Meter Sockets

Knockout Diagrams

Figure 16

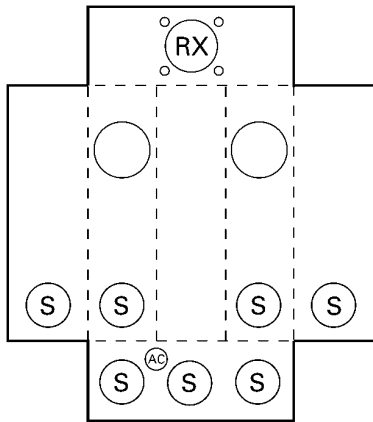


Figure 17

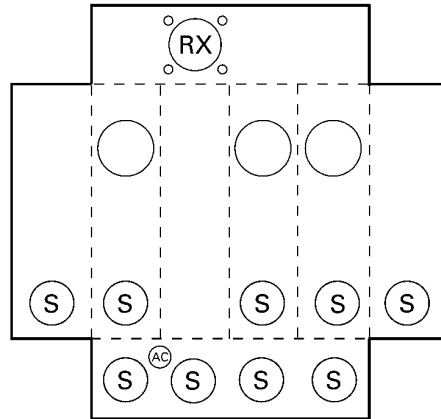


Figure 18

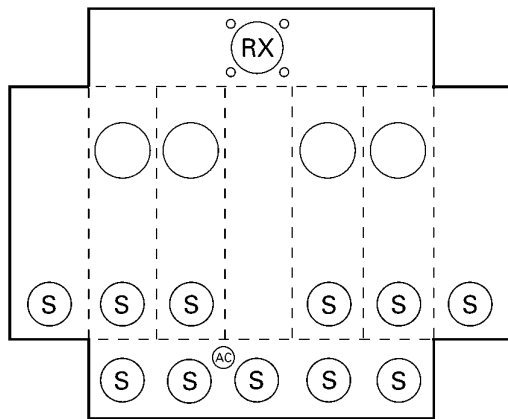


Figure 19

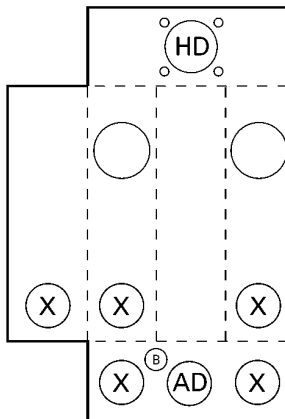


Figure 20

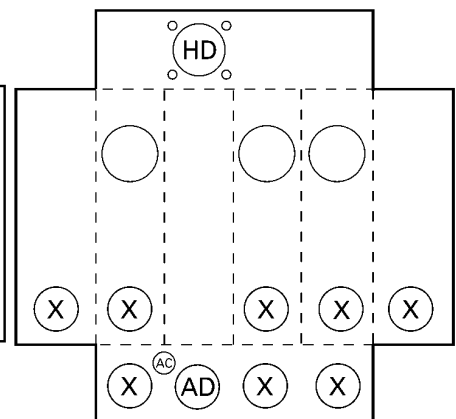
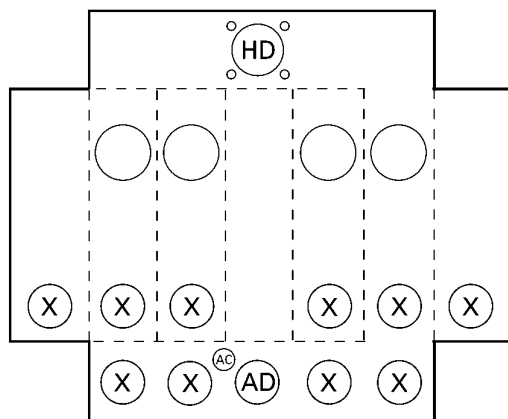


Figure 21



Knockout Code—Conduit Sizes

- = 1/4
- A = 1/2
- B = 1/2, 3/4
- L = 1/2, 3/4, 1, 1 1/4, 1 1/2
- N = 3/4, 1, 1 1/4, 1 1/2, 2
- P = 1, 1 1/4
- R = 1, 1 1/4, 1 1/2, 2
- S = 1, 1 1/4, 1 1/2, 2, 2 1/2
- X = 1 1/4, 1 1/2, 2, 2 1/2
- Z = 1 1/2, 2, 2 1/2
- K = 3/4, 1 1/4
- EE = 2, 2 1/2, 3
- GG = 2 1/2, 3, 3 1/2
- HH = 2 1/2, 3, 3 1/2, 4
- AB = 1/4, 1/2, 3/4
- AC = 1/4, 1/2
- AD = 1 1/4, 1 1/2, 2, 2 1/2, 3
- AE = 1/4, 1/2, 3/4, 1, 1 1/4
- AF = 1, 1 1/4, 2, 2 1/2, 3
- AG = 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3
- AH = 1/4, 1/2, 3/4
- AI = 1, 1 1/4, 1 1/2, 2, 2 1/2, 3
- HD = Ø4.281 HUB 0P
- RX = Ø2.750 HUB 0P

Meter Sockets

Knockout Diagrams

Figure 22

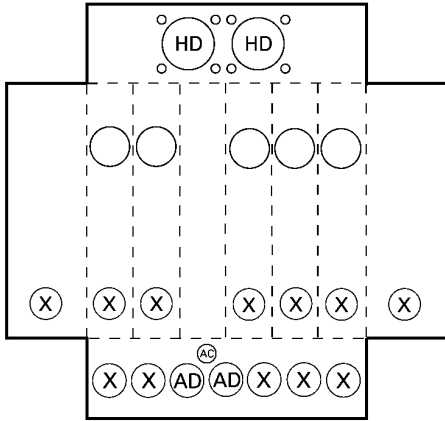


Figure 23

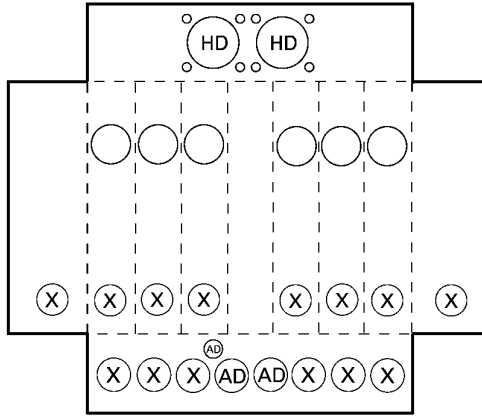


Figure 24

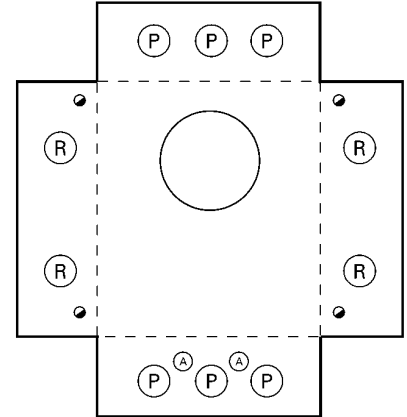


Figure 25

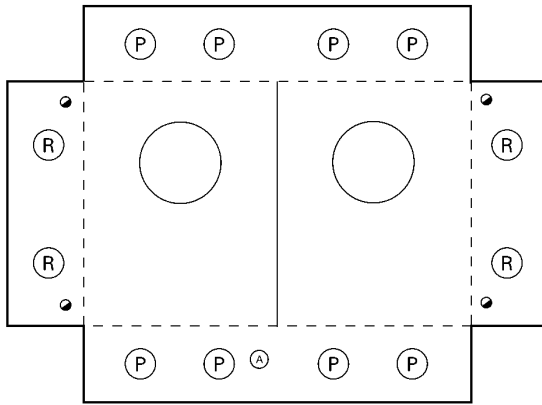


Figure 26

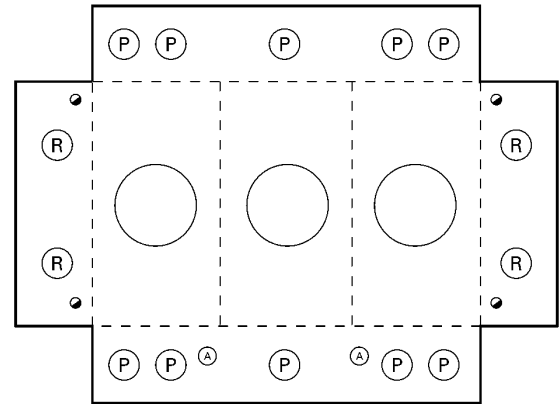
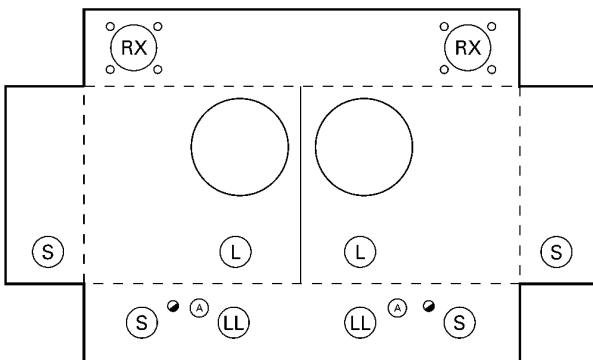


Figure 27



Knockout Code—Conduit Sizes

| | |
|----|-------------------------------------|
| ● | = 1/4 |
| A | = 1/2 |
| B | = 3/4, 1 |
| L | = 1/2, 3/4, 1, 1 1/4, 1 1/2 |
| N | = 3/4, 1, 1 1/4, 1 1/2, 2 |
| P | = 1, 1 1/4 |
| R | = 1, 1 1/4, 1 1/2, 2 |
| S | = 1, 1 1/4, 1 1/2, 2, 2 1/2 |
| X | = 1 1/4, 1 1/2, 2, 2 1/2 |
| Z | = 1 1/2, 2, 2 1/2 |
| K | = 3/4, 1 1/4 |
| EE | = 2, 2 1/2, 3 |
| GG | = 2 1/2, 3, 3 1/2 |
| HH | = 2 1/2, 3, 3 1/2, 4 |
| AB | = 1/4, 1/2, 3/4 |
| AC | = 1/4, 1/2 |
| AD | = 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AE | = 1/4, 1/2, 3/4, 1, 1 1/4 |
| AF | = 1, 1 1/4, 2, 2 1/2, 3 |
| AG | = 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| AH | = 1/4, 1/2, 3/4 |
| AI | = 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 |
| HD | = Ø4.281 HUB 0P |
| RX | = Ø2.750 HUB 0P |

Meter Sockets

Knockout Diagrams

Figure 28

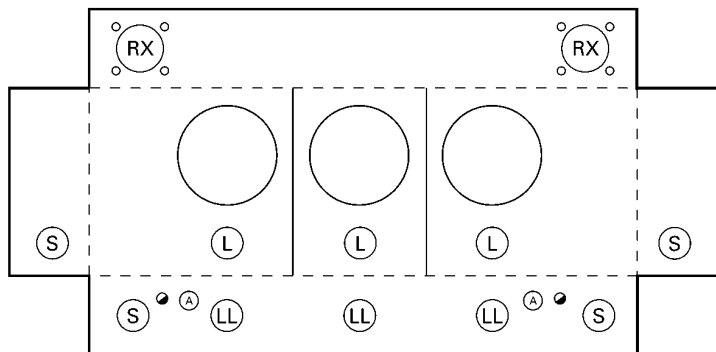


Figure 29

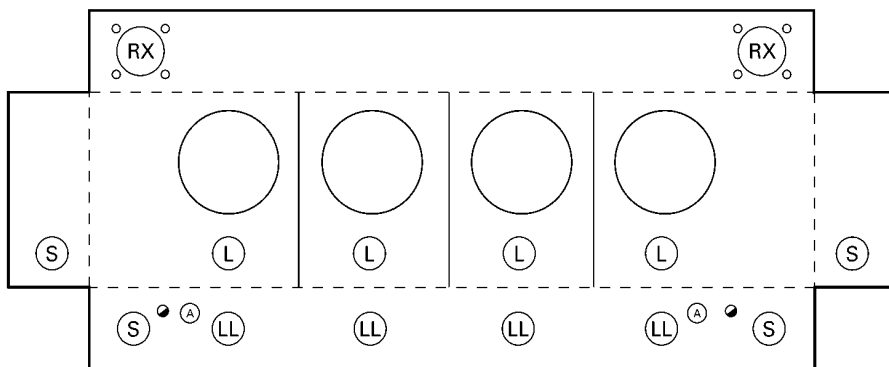
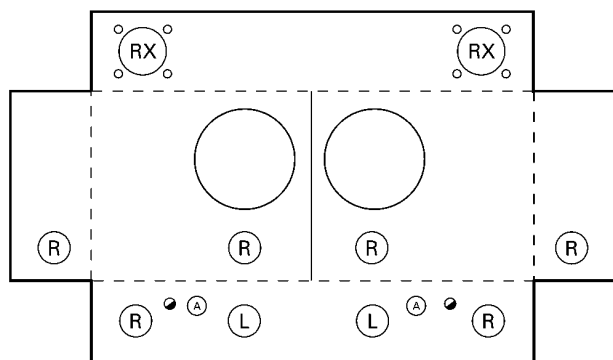


Figure 30



Knockout Code—Conduit Sizes

| | |
|----|--------------------------|
| ● | = ¼ |
| A | = ½ |
| B | = ¾, ¾ |
| L | = ½, ¾, 1, 1¼, 1½ |
| N | = ¾, 1, 1¼, 1½, 2 |
| P | = 1, 1¼ |
| R | = 1, 1¼, 1½, 2 |
| S | = 1, 1¼, 1½, 2, 2½ |
| X | = 1¼, 1½, 2, 2½ |
| Z | = 1½, 2, 2½ |
| K | = ¾, 1¼ |
| EE | = 2, 2½, 3 |
| GG | = 2½, 3, 3½ |
| HH | = 2½, 3, 3½, 4 |
| AB | = ¼, ½, ¾ |
| AC | = ¼, ½ |
| AD | = 1¼, 1½, 2, 2½, 3 |
| AE | = ¾, ¾, ¾, 1, 1¼ |
| AF | = 1, 1½, 2, 2½, 3 |
| AG | = ¾, 1, 1¼, 1½, 2, 2½, 3 |
| AH | = ¾, ¾, ¾ |
| AI | = 1, 1¼, 1½, 2, 2½, 3 |
| HD | = Ø4.281 HUB 0P |
| RX | = Ø2.750 HUB 0P |

Meter Sockets

Knockout Diagrams

Figure 31

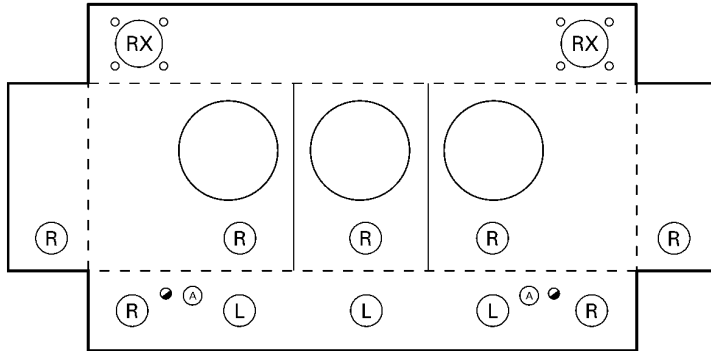


Figure 32

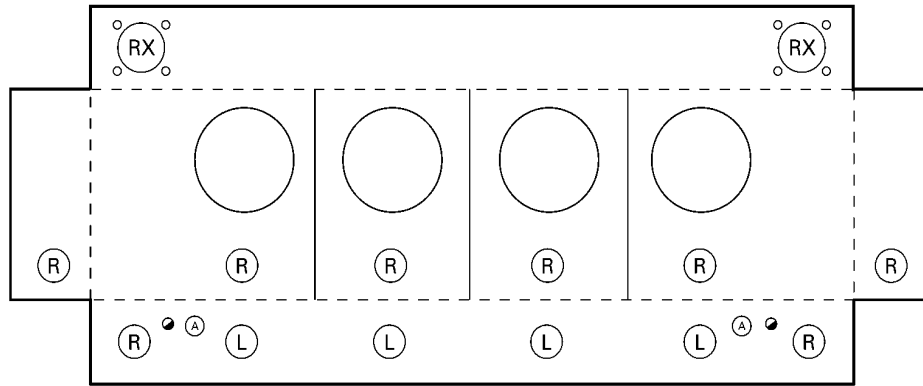


Figure 33

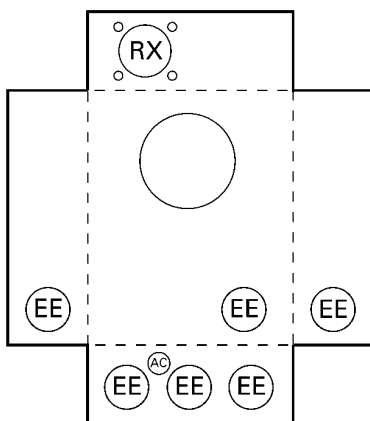
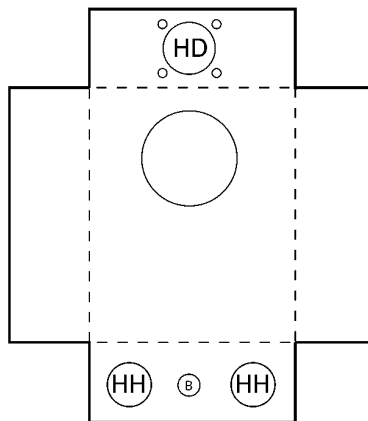


Figure 34



Knockout Code—Conduit Sizes

| | |
|----|--------------------------|
| ● | = ¼ |
| A | = ½ |
| B | = ½, ¾ |
| L | = ½, ¾, 1, 1¼, 1½ |
| N | = ¾, 1, 1¼, 1½, 2 |
| P | = 1, 1¼ |
| R | = 1, 1¼, 1½, 2 |
| S | = 1, 1¼, 1½, 2, 2½ |
| X | = 1¼, 1½, 2, 2½ |
| Z | = 1½, 2, 2½ |
| K | = ¾, 1¼ |
| EE | = 2, 2½, 3 |
| GG | = 2½, 3, 3½ |
| HH | = 2½, 3, 3½, 4 |
| AB | = ¼, ½, ¾ |
| AC | = ¼, ½ |
| AD | = 1¼, 1½, 2, 2½, 3 |
| AE | = ¾, ½, ¾, 1, 1¼ |
| AF | = 1, 1¼, 2, 2½, 3 |
| AG | = ¾, 1, 1¼, 1½, 2, 2½, 3 |
| AH | = ¾, ½, ¾ |
| AI | = 1, 1¼, 1½, 2, 2½, 3 |
| HD | = Ø4.281 HUB 0P |
| RX | = Ø2.750 HUB 0P |

Meter Sockets

Knockout Diagrams

Figure 35

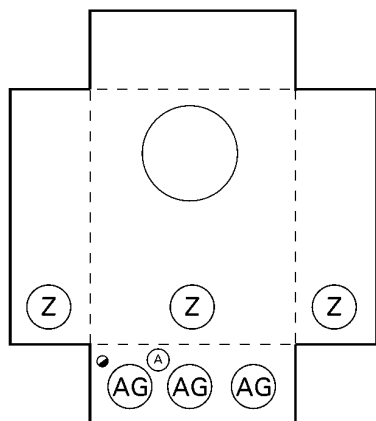


Figure 36

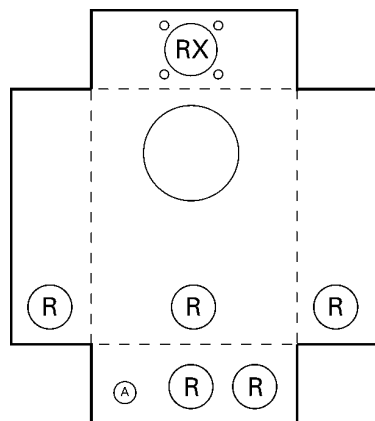


Figure 37

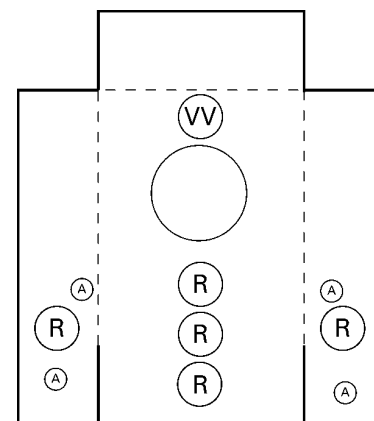


Figure 38

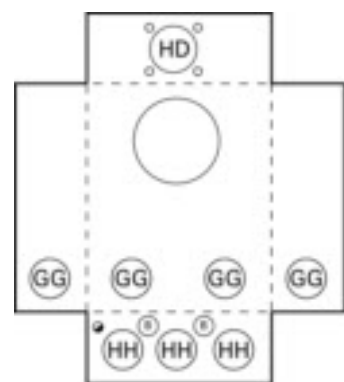


Figure 39

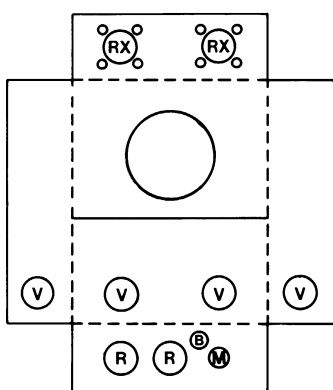


Figure 40

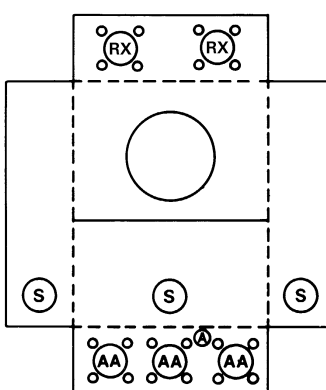


Figure 41

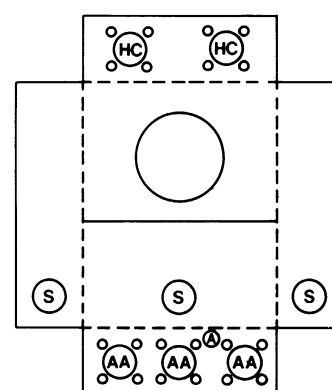


Figure 42

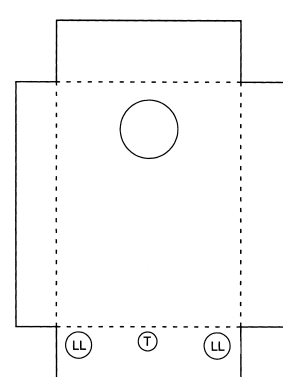
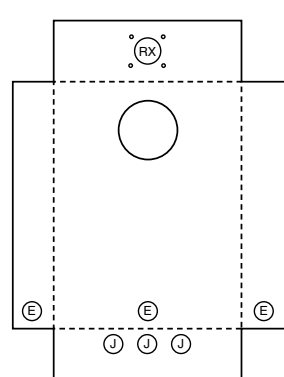


Figure 43

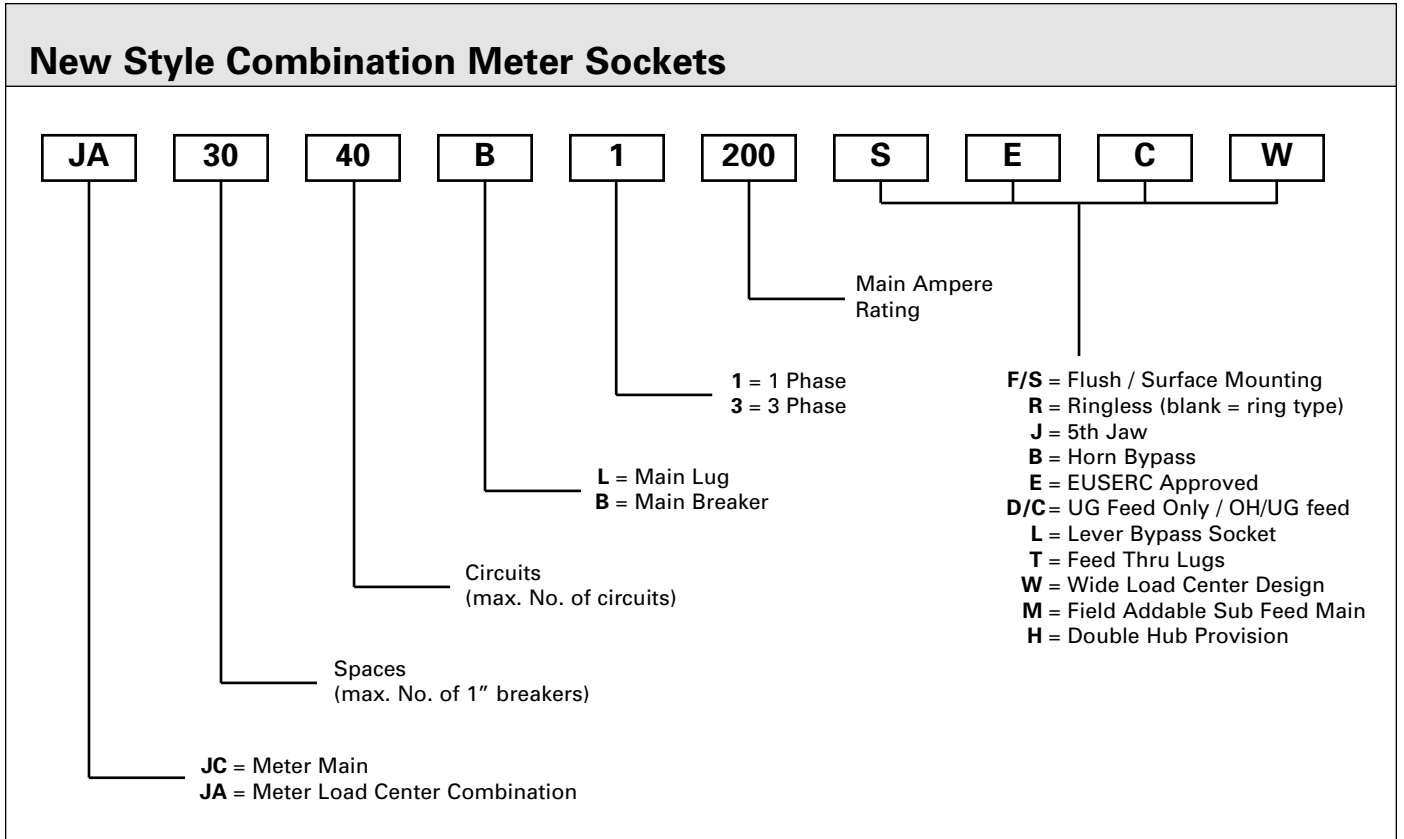


Knockout Code—Conduit Sizes

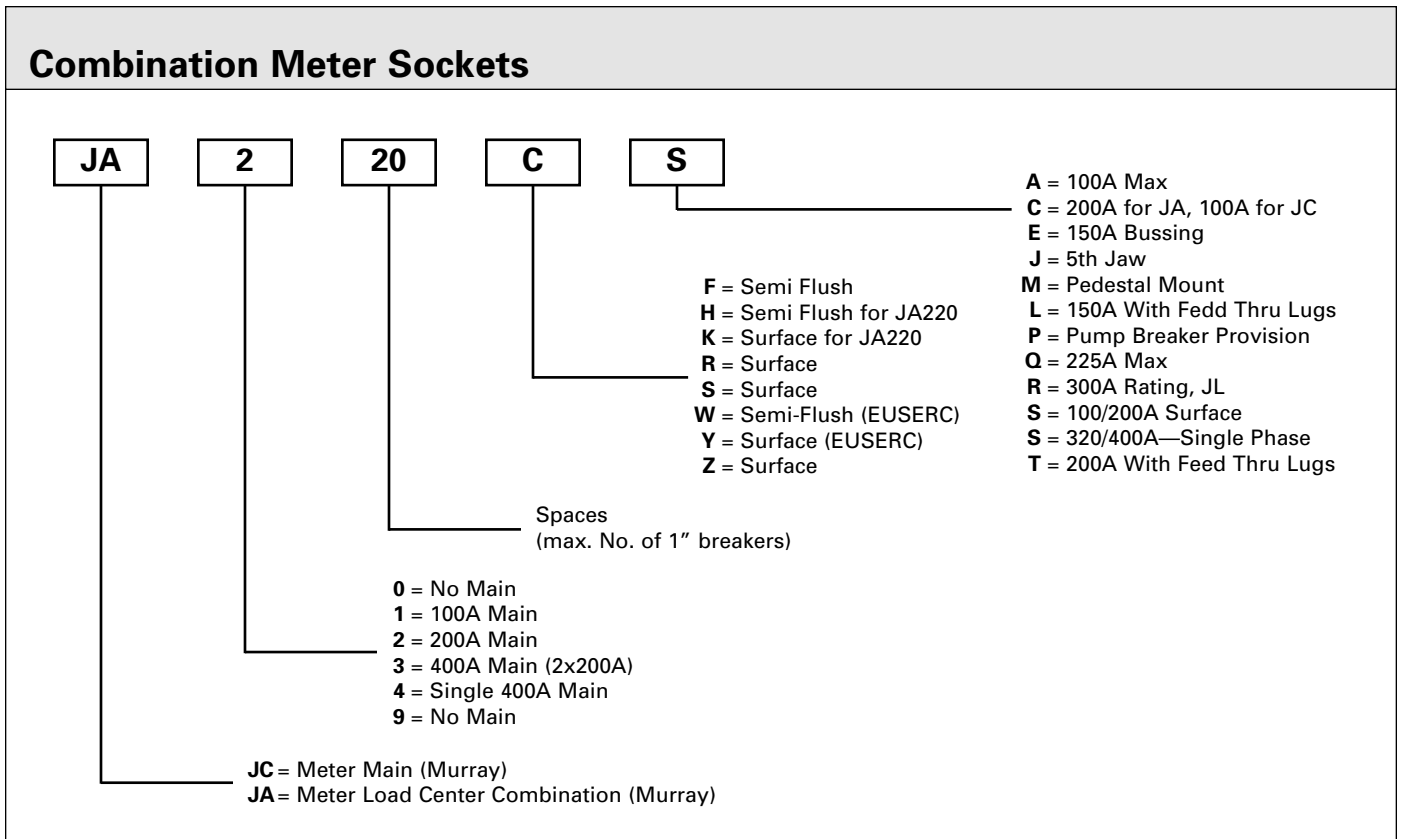
- = 1/8
- A = 1/2
- B = 3/8, 1/2
- L = 1/2, 3/4, 1, 1 1/4, 1 1/2
- N = 3/4, 1, 1 1/4, 1 1/2, 2
- P = 1, 1 1/4
- R = 1, 1 1/4, 1 1/2, 2
- S = 1, 1 1/4, 1 1/2, 2, 2 1/2
- X = 1 1/4, 1 1/2, 2, 2 1/2
- Z = 1 1/2, 2, 2 1/2
- K = 3/4, 1 1/4
- EE = 2, 2 1/2, 3
- GG = 2 1/2, 3, 3 1/2
- HH = 2 1/2, 3, 3 1/2, 4
- AB = 1/4, 1/2, 3/8
- AC = 1/4, 1/2
- AD = 1 1/4, 1 1/2, 2, 2 1/2, 3
- AE = 1/4, 1/2, 3/4, 1, 1 1/4
- AF = 1, 1 1/4, 2, 2 1/2, 3
- AG = 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3
- AH = 1/4, 1/2, 3/8
- AI = 1, 1 1/4, 1 1/2, 2, 2 1/2, 3
- HD = Ø4.281 HUB 0P
- RX = Ø2.750 HUB 0P

Combination Meter Sockets

Catalog Number Logic



3 METER CENTERS



Combination Meter Sockets

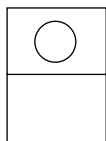
Combination Meter Sockets

Introduction

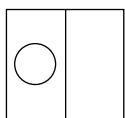
This section includes 4 product categories, which each include their own set of featured products:

Meter Mains

Murray Meter Mains are UL Listed and available from 100A to 400A services. These Meter Mains utilize a cost effective construction that is preferable in non-EUSERC areas.



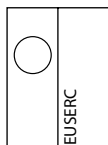
Over-Under Construction – These Murray Meter Mains feature a classic over-under construction. Available in 100A and 125A versions.



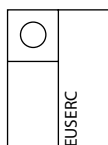
Side-By-Side Construction – These Meter Mains utilize a cost effective side-by-side construction. Meter Mains combine a socket to the right and main circuit breaker section to the left. The main breaker section includes 2 to 6 circuits.

EUSERC Meter Mains

Murray EUSERC Meter Mains are UL Listed and available from 100A to 400A services. These meter mains utilize designs that meet EUSERC requirements. Two constructions are available.



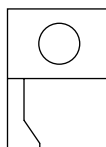
Side-By-Side Construction – These Murray Meter Mains have a side-by-side construction that is slightly larger in order to meet EUSERC requirements.



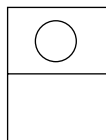
Side-By-Side 400A Construction – These Murray Meter Mains have side-by-side construction that meets EUSERC design, and provide 400A service.

Meter Load Center Combinations

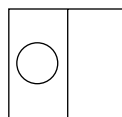
Murray Meter Load Center Combinations offer several different configurations and include a meter socket section and a load center section. These Murray combos feature a cost effective construction that is preferable in non-EUSERC areas.



Over-Under Combination Construction – These Murray Meter Load Center Combinations feature a over-under configuration with a unique trough allowing service from either overhead or underground to the device.



Over-Under Construction – These Murray Meter Load Center Combinations feature a classic over-under construction.



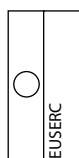
Side-By-Side Construction – These Murray Meter Load Center Combinations have a side-by-side configuration.

EUSERC Meter Load Center Combinations

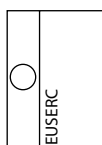
Murray Meter Load Center Combinations offer several different configurations to meet a variety of installer demands. These Murray combos feature designs that meet EUSERC requirements.



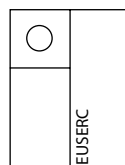
Over-Under Between the Studs Construction – These Combos have a full width load center section above, and a meter socket section below, in a 14.3" wide configuration that allows flush mounting between typical 16" on center stud construction. Surface mounting options available.



Side-By-Side Between the Studs Construction – These combos have a half width load center section to the right and a meter socket section to the left, in a 14.2" wide configuration that allows flush mounting between typical 16" on center stud construction. Surface mounting options available.



Side-By-Side Full Load Center Construction – These Murray Meter Load Center Combinations have a full width load center section to the right, and a meter socket section to the left. The overall width make this combo best suited for surface mounting.



Side-By-Side 400A Construction – These Murray Meter Mains have side-by-side construction that meets EUSERC design, and provide 400A service. Available with 16 to 42 circuits.

Meter Mains

Meter Mains, 100A-400A

- UL listed
- Pad locking provisions on all devices
- Horn bypass and 5th jaw available as noted
- Side hinged door with one screw removal where shown
- Suitable for use only as service entrance equipment
- Contact local utility to confirm meter socket placement prior to installation
- See end of section for 5th jaw, main breaker, dimensions and wiring diagrams

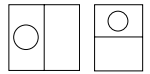


Figure 1



JC0202B1125RJB
meter mains, side hinge door

Figure 2



JC0406L1200RHJB
200A meter main, 6 circuits

Figure 3



JC0404L1400RLM
400A meter main, two field installed mains

Figure 4



JC002CZ
125A meter main

Figure 5



JC002CS
meter main, OH feed only

3

METER CENTERS

Combination
Meter Sockets

| Side-By-Side Construction Meter Mains | | | | | | | | | | | | |
|---------------------------------------|---------------|---------------|------------|----------|---------|-------------|-------------------------------------|-------------------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions ^① | | | List Price \$ | Figure |
| | | | | | | | | Height | Width | Depth | | |
| 125 | 2 | 2 | Ring | Surface | OH | — | JC002CZ ^② | 14.1 | 14.1 | 4.6 | 375.00 | 4 |
| 125 | 2 | 2 | Ringless | Flush | OH/UG | Horn | JC0202B1125RJB ^③ | 17.0 | 16.0 | 5.0 | 1232.00 | 1 |
| 200 | 2 | 2 | Ring | Surface | OH/UG | — | JC0202B1200 ^③ | 17.0 | 16.0 | 5.0 | 1849.00 | 1 |
| 200 | 2 | 2 | Ringless | Flush | OH/UG | — | JC0202B1200R ^③ | 17.0 | 16.0 | 5.0 | 1849.00 | 1 |
| 200 | 2 | 2 | Ringless | Flush | OH/UG | Horn | JC0202B1200RJB ^③ | 17.0 | 16.0 | 5.0 | 1849.00 | 1 |
| 200 | 4 | 6 | Ring | Flush | OH/UG | — | JC0406L1200H ^③ | 19.7 | 17.1 | 5.0 | 1005.00 | 2 |
| 200 | 4 | 6 | Ringless | Surface | OH/UG | — | JC0406L1200RH ^③ | 19.7 | 17.1 | 5.0 | 1061.00 | 2 |
| 200 | 4 | 6 | Ringless | Flush | OH/UG | Horn | JC0406L1200RHJB ^③ | 19.7 | 17.1 | 5.0 | 1097.00 | 2 |
| 400 | 2 | 2 | Ringless | Surface | OH/UG | Lever | JC0404L1400RLM ^③ | 29.0 | 27.0 | 6.0 | 3083.00 | 3 |

| Over-Under Construction Meter Mains | | | | | | | | | | | | |
|-------------------------------------|---------------|---------------|------------|----------|---------|-------------|-----------------------------|-------------------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions ^① | | | List Price \$ | Figure |
| | | | | | | | | Height | Width | Depth | | |
| 100 | 2 | 2 | Ring | Surface | OH | — | JC002CS ^② | 18.1 | 7.0 | 3.6 | 368.00 | 5 |
| 125 | 2 | 2 | Ring | Surface | OH | — | JC002AR ^② | 22.1 | 7.0 | 3.6 | 390.00 | 5 |

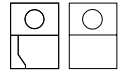
① Dimensions shown are representative of outside box length, width, & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions. Dimensions are subject to change.

② Not suitable for 5th jaw applications.

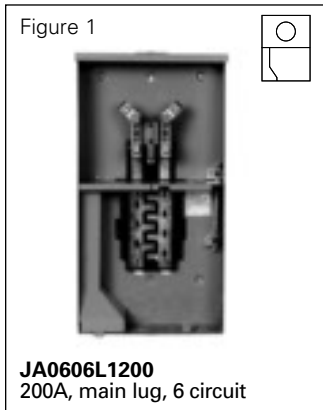
③ Closure plate included.

Meter Load Center Combinations

Over-Under Construction Meter Load Center Combinations, 150A-200A



- UL listed
- Overhead and underground feed applications
- Underground feed accomplished by use of removable gutter trough
- Load wires bottom or back exit only
- 22,000 AIC rated
- Pad locking provisions on all devices
- Side hinge doors removable by backing out only one screw
- Suitable for use only as service entrance equipment
- RX type hub provision on top end wall
- HC type hub provision on bottom end wall
- Field addable 5th Jaw (EC5J2)
- Contact local utility to confirm meter socket placement prior to installation
- See end of section for 5th jaw, main breaker, dimensions and wiring diagrams



METER CENTERS 3

Combination Meter Sockets

| Over-Under Combination Construction Meter Load Center Combinations | | | | | | | | | | | | |
|--|---------------|---------------|------------|----------|---------|-------------|--------------------------------|------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions | | | List Price \$ | Figure |
| | | | | | | | | Height | Width | Depth | | |
| 150 | 4 | 8 | Ringless | Surface | OH/UG | — | JA0408B1150RT [Ⓞ] | 30.0 | 13.9 | 4.9 | 1404.00 | 2 |
| 150 | 4 | 8 | Ring | Surface | OH/UG | — | JA0408B1150T [Ⓞ] | 30.0 | 13.9 | 4.9 | 1404.00 | 2 |
| 150 | 8 | 16 | Ring | Surface | OH/UG | — | JA0816B1150CT [Ⓞ] | 32.0 | 13.9 | 4.9 | 1477.00 | 3 |
| 150 | 8 | 16 | Ringless | Surface | OH/UG | — | JA0816B1150RCT [Ⓞ] | 32.0 | 13.9 | 4.9 | 1477.00 | 3 |
| 200 | 12 | 6 | Ring | Surface | OH/UG | — | JA0606L1200 ^{ⓄⓈⓈⓈ} | 27.0 | 13.9 | 4.9 | 1099.00 | 1 |
| 200 | 12 | 6 | Ringless | Surface | OH/UG | — | JA0606L1200R ^{ⓄⓈⓈⓈ} | 27.0 | 13.9 | 4.9 | 1099.00 | 1 |
| 200 | 12 | 6 | Ringless | Surface | OH/UG | — | JA0606L1200RA ^{ⓄⓈⓈⓈⓈ} | 27.0 | 13.9 | 4.9 | 1331.00 | 1 |
| 200 | 4 | 8 | Ringless | Surface | OH/UG | — | JA0408B1200RT [Ⓞ] | 30.0 | 13.9 | 4.9 | 1404.00 | 2 |
| 200 | 4 | 8 | Ring | Surface | OH/UG | — | JA0408B1200T [Ⓞ] | 30.0 | 13.9 | 4.9 | 1404.00 | 2 |
| 200 | 8 | 16 | Ring | Surface | OH/UG | — | JA0816B1200CT [Ⓞ] | 32.0 | 13.9 | 4.9 | 1477.00 | 3 |
| 200 | 8 | 16 | Ringless | Surface | OH/UG | — | JA0816B1200RCT [Ⓞ] | 32.0 | 13.9 | 4.9 | 1477.00 | 3 |

| Over-Under Construction Meter Load Center Combinations | | | | | | | | | | | | |
|--|---------------|---------------|------------|----------|---------|-------------|----------------|------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions | | | List Price \$ | Figure |
| | | | | | | | | Height | Width | Depth | | |
| 200 | 8 | 16 | Ringless | Surface | OH | — | JA0816B1200RT | 28.9 | 12.5 | 4.9 | 1441.00 | 4 |
| 200 | 8 | 16 | Ring | Surface | OH | — | JA0816B1200T | 28.9 | 12.5 | 4.9 | 1391.00 | 4 |

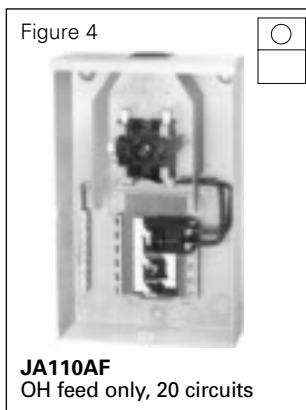
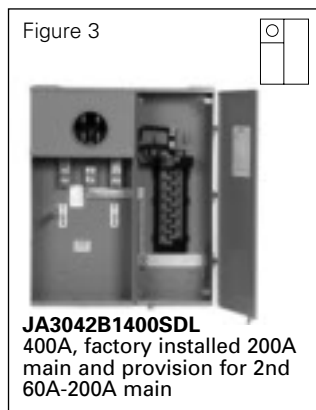
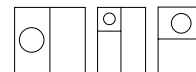
Ⓞ No main breaker provided. Accept MD-T or MP-T type 2 or 4-pole breakers.
 Ⓢ Suitable for use as service entrance equipment when not more than six disconnecting means are provided and when not used as a lighting or appliance panel board.

Ⓞ Due to wire space restrictions on the trough side, the left side of the interior is limited to a 60A max branch.
 Ⓢ Aluminum enclosure.
 Ⓢ Suitable for use as service entrance equipment when not more than six disconnecting means are provided and when not used as a lighting and appliance panel branch circuit panel board.

Meter Load Center Combinations

Meter Load Center Combinations, 100A-400A

- UL listed
- 22,000 AIC Rated
- Pad locking provisions on all devices
- Side hinge doors removable by backing out only one screw
- Suitable for use only as service entrance equipment
- Contact local utility to confirm meter socket approval prior to installation
- See end of section for 5th jaw, main breaker, dimensions and wiring diagrams



3
METER CENTERS

| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions | | | List Price \$ | Figure |
|-----------|---------------|---------------|------------|----------|---------|-------------|------------------------------|------------|-------|-------|---------------|--------|
| | | | | | | | | Height | Width | Depth | | |
| 150 | 8 | 16 | Ringless | Surface | OH/UG | — | JA0816B1150RTH [Ⓢ] | 21.0 | 22.8 | 5.0 | 1404.00 | 1 |
| 150 | 8 | 16 | Ring | Surface | OH/UG | — | JA0816B1150TH [Ⓢ] | 21.0 | 22.8 | 5.0 | 1404.00 | 1 |
| 200 | 8 | 16 | Ringless | Surface | OH/UG | — | JA0816B1200RTH [Ⓢ] | 21.0 | 22.8 | 5.0 | 1477.00 | 1 |
| 200 | 8 | 16 | Ring | Surface | OH/UG | — | JA0816B1200TH [Ⓢ] | 21.0 | 22.8 | 5.0 | 1477.00 | 1 |
| 200 | 20 | 40 | Ring | Surface | OH/UG | — | JA2040B1200 [Ⓢ] | 18.0 | 22.8 | 5.0 | 1099.00 | 1 |
| 350 | 8 | 16 | Ringless | Surface | OH/UG | Lever | JA0816B1350RLTM [Ⓢ] | 29.0 | 27.0 | 6.0 | 1099.00 | 2 |
| 400 | 4 | 8 | Ringless | Surface | OH/UG | Lever | JA0408B1400RLTM [Ⓢ] | 29.0 | 27.0 | 6.0 | 1331.00 | 2 |
| 400 | 8 | 16 | Ringless | Surface | OH/UG | Lever | JA0816B1400RLTM [Ⓢ] | 29.0 | 27.0 | 6.0 | 1404.00 | 2 |

| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions | | | List Price \$ | Figure |
|-----------|---------------|---------------|------------|----------|---------|-------------|----------------|------------|-------|-------|---------------|--------|
| | | | | | | | | Height | Width | Depth | | |
| 400 | 30 | 42 | Ring | Surface | UG | Lever | JA3042B1400SDL | 39.6 | 30.1 | 6.3 | 5818.00 | 3 |

| Amps Max. | No. of Spaces | Max. Circuits | Cover Type | Mounting | Service | Bypass Type | Catalog Number | Dimensions | | | List Price \$ | Figure |
|-----------|---------------|---------------|------------|----------|---------|-------------|----------------------|------------|-------|-------|---------------|--------|
| | | | | | | | | Height | Width | Depth | | |
| 100 | 10 | 20 | Ring | Flush | OH | — | JA110AF [Ⓢ] | 19.3 | 12.1 | 4.3 | 688.00 | 4 |
| 100 | 10 | 20 | Ring | Flush | OH | — | JA110AS [Ⓢ] | 19.3 | 12.1 | 4.3 | 688.00 | 4 |
| 200 | 20 | 40 | Ring | Flush | OH | — | JA220CS [Ⓢ] | 30.5 | 14.3 | 4.3 | 1790.00 | 5 |
| 200 | 20 | 40 | Ring | Flush | OH | — | JA220CF [Ⓢ] | 30.5 | 14.3 | 4.3 | 1790.00 | 5 |

[Ⓢ] Feed thru lugs included.
[Ⓢ] Side by side design for OH/UG applications.

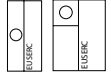
[Ⓢ] Over/under design for OH applications.
[Ⓢ] Not suitable for 5th jaw applications.

[Ⓢ] Semi-Flush mounting only.
[Ⓢ] Closure plate included.

Combination
Meter Sockets

EUSERC Meter Mains

EUSERC Side-By-Side Construction Meter Mains, 125A-400A



- UL listed
- For overhead and underground feed applications
- Designed to meet EUSERC standards
- 22,000 AIC Rated
- Pad locking provisions on all devices
- Surface and semi-flush units available - semi flush rails are depth adjustable for 2x6 studs
- Side hinge door removable by backing out only one screw
- Load wiring may exit top or bottom
- Suitable for use only as service entrance equipment
- RX type hub provision on top endwall, HC type hub provision on bottom endwall
- 5th jaw accessory available (ECMC5J)
- Ring type meter covers
- Contact local utility to confirm meter socket approval prior to installation
- See end of section for 5th jaw, main breaker, dimensions and wiring diagrams



METER CENTERS 3

| Side-By-Side Construction Meter Mains | | | | | | | | | | |
|---------------------------------------|---------------|---------------|----------|---------|-----------------------------|-------------------------|--------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Catalog Number | Dimensions ^① | | | List Price \$ | Figure |
| | | | | | | Height | Width | Depth | | |
| 125 | 4 | 6 | Flush | OH/UG | JC0406L1125FEC ^② | 26-9/16 | 14-1/2 | 7-1/2 | 388.00 | 1 |
| 125 | 4 | 6 | Surface | OH/UG | JC0406L1125SEC ^② | 26-9/16 | 14-1/2 | 7-1/2 | 388.00 | 1 |
| 200 | 4 | 6 | Flush | OH/UG | JC0406L1200FEC ^② | 30-9/16 | 14-1/2 | 7-1/2 | 1051.00 | 1 |
| 200 | 4 | 6 | Surface | OH/UG | JC0406L1200SEC ^② | 30-9/16 | 14-1/2 | 7-1/2 | 1051.00 | 1 |

| Side-By-Side 400A Construction Meter Mains | | | | | | | | | | |
|--|---------------|---------------|----------|---------|------------------------------|-------------------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Catalog Number | Dimensions ^① | | | List Price \$ | Figure |
| | | | | | | Height | Width | Depth | | |
| 400 | 4 | 2 | Surface | OH/UG | JC0404L1400SC ^③ | 39.6 | 33.1 | 6.4 | 4769.00 | 2 |
| 400 | 4 | 2 | Flush | UG | JC0404L1400FD ^③ | 39.6 | 30.1 | 6.4 | 4909.00 | 2 |
| 400 | 4 | 2 | Surface | OH/UG | JC0404L1400SCS ^{③④} | 39.6 | 33.1 | 6.4 | 5049.00 | 2 |
| 400 | 4 | 2 | Flush | UG | JC0404L1400FDS ^{③④} | 39.6 | 30.1 | 7.3 | 5046.00 | 2 |

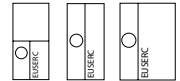
① Dimensions shown are representative of outside box length, width, and depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions. Dimensions are subject to change.

② Main breaker not included.
③ Test block bypass.
④ Main breaker: (2) Field QP(H), QNR(H).

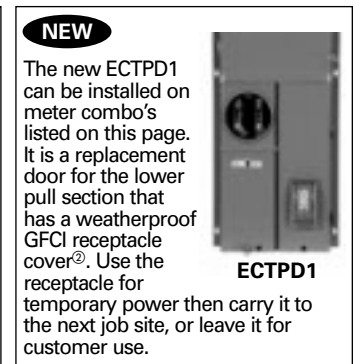
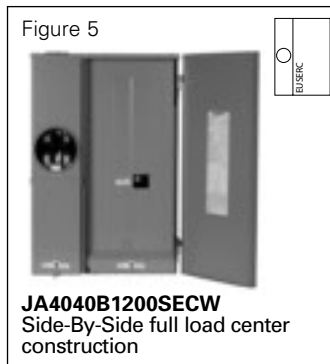
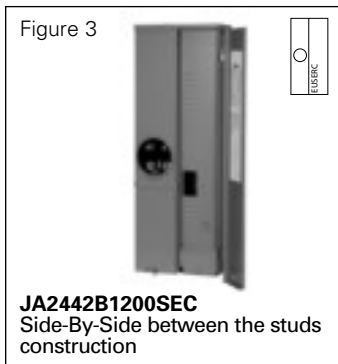
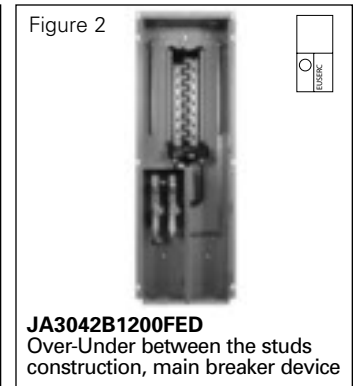
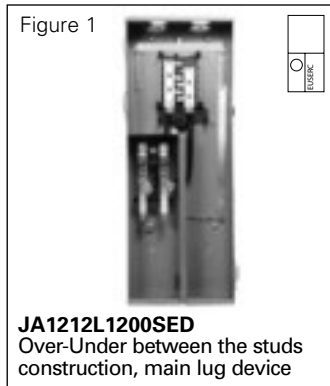
Combination Meter Sockets

EUSERC Meter Load Center Combinations

EUSERC Meter Load Center Combinations, 100A-225A



- UL listed
- For overhead and underground feed applications
- Designed to meet EUSERC standards
- 22,000 AIC Rated
- Pad locking provisions on all devices
- Surface and semi-flush units available - semi flush rails are depth adjustable for 2x6 studs
- Side hinge door removable by backing out only one screw
- Load wiring may exit top or bottom
- Suitable for use only as service entrance equipment
- RX type hub provision on top endwall, HC type hub provision on bottom endwall
- 5th jaw accessory available (ECMC5J)
- Ring type meter covers
- Contact local utility to confirm meter socket approval prior to installation
- See end of section for dimensions and wiring diagrams



3 METER CENTERS

| Over-Under Between the Studs Construction Meter Load Center Combinations | | | | | | | | | | |
|--|---------------|---------------|----------|---------|-----------------------------|-------------------------|--------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Catalog Number | Dimensions ^① | | | List Price \$ | Figure |
| | | | | | | Height | Width | Depth | | |
| 200 | 12 | 12 | Flush | UG | JA1212L1200FED ^② | 38-3/8 | 14-1/2 | 7-1/2 | 1424.00 | 1 |
| 200 | 12 | 12 | Surface | UG | JA1212L1200SED ^② | 38-3/8 | 14-1/2 | 7-1/2 | 1424.00 | 1 |
| 200 | 20 | 40 | Surface | UG | JA2040B1200SED | 41-7/8 | 14-1/2 | 7-1/2 | 2017.00 | 2 |
| 200 | 20 | 40 | Flush | UG | JA2040B1200FED | 41-7/8 | 14-1/2 | 7-1/2 | 2017.00 | 2 |
| 200 | 30 | 42 | Surface | UG | JA3042B1200SED | 48-3/8 | 14-1/2 | 7-1/2 | 2017.00 | 2 |
| 200 | 30 | 42 | Flush | UG | JA3042B1200FED | 48-3/8 | 14-1/2 | 7-1/2 | 2017.00 | 2 |
| 225 | 30 | 42 | Surface | UG | JA3042B1225SED | 48-3/8 | 14-1/2 | 7-1/2 | 2157.00 | 2 |
| 225 | 30 | 42 | Flush | UG | JA3042B1225FED | 48-3/8 | 14-1/2 | 7-1/2 | 2157.00 | 2 |

| Side-By-Side Between the Studs Construction Meter Load Center Combinations | | | | | | | | | | |
|--|---------------|---------------|----------|---------|-----------------|------------|--------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Catalog Number | Dimensions | | | List Price \$ | Figure |
| | | | | | | Height | Width | Depth | | |
| 100 | 12 | 24 | Flush | OH/UG | JA1224B1100FEC | 26-9/16 | 14-1/2 | 7-1/2 | 776.00 | 3 |
| 100 | 12 | 24 | Surface | OH/UG | JA1224B1100SEC | 26-9/16 | 14-1/2 | 7-1/2 | 776.00 | 3 |
| 100 | 16 | 32 | Flush | OH/UG | JA1632B1100FEC | 30-9/16 | 14-1/2 | 7-1/2 | 871.00 | 3 |
| 100 | 16 | 32 | Surface | OH/UG | JA1632B1100SEC | 30-9/16 | 14-1/2 | 7-1/2 | 871.00 | 3 |
| 125 | 12 | 24 | Flush | OH/UG | JA1224B1125FEC | 26-9/16 | 14-1/2 | 7-1/2 | 1049.00 | 3 |
| 125 | 12 | 24 | Surface | OH/UG | JA1224B1125SEC | 26-9/16 | 14-1/2 | 7-1/2 | 1049.00 | 3 |
| 125 | 16 | 32 | Flush | OH/UG | JA1632B1125FEC | 30-9/16 | 14-1/2 | 7-1/2 | 1787.00 | 3 |
| 200 | 24 | 42 | Flush | OH/UG | JA2442B1200FEC | 40-9/16 | 14-1/2 | 7-1/2 | 2099.00 | 3 |
| 200 | 24 | 48 | Surface | OH/UG | JA2442B1200SEC | 40-9/16 | 14-1/2 | 7-1/2 | 2099.00 | 3 |
| 200 | 8 | 16 | Surface | OH/UG | JA0816B1200SCTM | 40-9/16 | 14-1/2 | 7-1/2 | 1822.00 | 4 |

| Side-By-Side Full Load Center Construction Meter Load Center Combinations | | | | | | | | | | |
|---|---------------|---------------|----------|---------|------------------------------|------------|-------|-------|---------------|--------|
| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Catalog Number | Dimensions | | | List Price \$ | Figure |
| | | | | | | Height | Width | Depth | | |
| 200 | 30 | 40 | Surface | OH/UG | JA3040B1200SECW ^③ | 32-1/4 | 21 | 5-1/8 | 776.00 | 5 |
| 200 | 30 | 40 | Surface | OH/UG | JA4040B1200SECW ^③ | 32-1/4 | 21 | 5-1/8 | 776.00 | 5 |

① Suitable for use as service entrance equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance panel board.

② Consists of a door, hinges, and weatherproof cover. GFCI receptacle not included.

③ FRK1 - Flush rail kit.

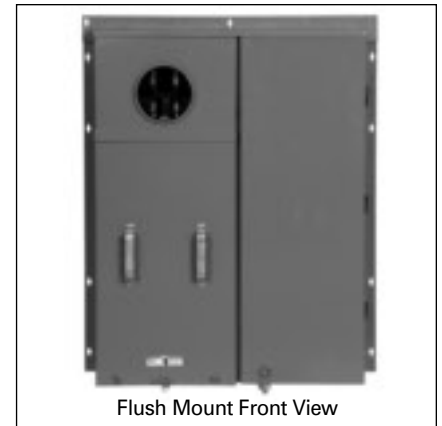
Combination Meter Sockets

EUSERC Meter Load Center Combinations

EUSERC Side-By-Side Construction Meter Load Center Combinations, 400A

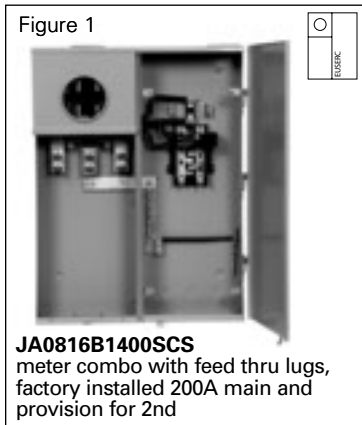


- UL Listed
- 400A Max, 320A Continuous
- Meter socket options include 320A (400A max) lever bypass, non-bypass, test block bypass, and bolt on
- Load center options include a meter main, 8 space panel with feed through lugs, 24 space
- 22,000 AIC Rated
- Accepts HD Type Hubs
- Factory installed flush mount option
- Surface mount devices accept field added flush rails
- Suitable for use only as service entrance equipment
- Contact local utility to confirm meter socket acceptance prior to installation
- See end of section for knock out diagrams and wiring schematics
- Designed to meet EUSERC

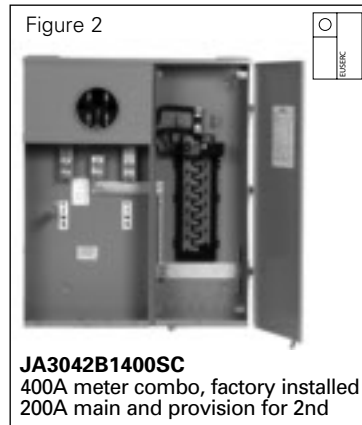


Flush Mount Front View

METER CENTERS 3



JA0816B1400SCS
meter combo with feed thru lugs, factory installed 200A main and provision for 2nd



JA3042B1400SC
400A meter combo, factory installed 200A main and provision for 2nd

Accessories

| Description | Catalog Number |
|---|----------------|
| Flush Rail Kit for UG only devices | ECFRK1 |
| Flush Rail Kit for OH/UG feed devices | ECFRK2 |
| 2" HD Type Hub | EC56854 |
| 2 1/2" HD Type Hub | EC56855 |
| 3" HD Type Hub | EC56856 |
| 3 1/2" HD Type Hub | EC56857 |
| 4" HD Type Hub | EC56858 |
| HD Closure Plate | EC56933S |
| Snap on Sealing Ring | SRSS |
| Stainless Steel Screw Type Sealing Ring | SRSW |
| (2) #6-350 kcmil | UK350TA |
| (1) #2-600 kcmil | UK600TA |
| (2) 500-1000 kcmil | UK1000TA |

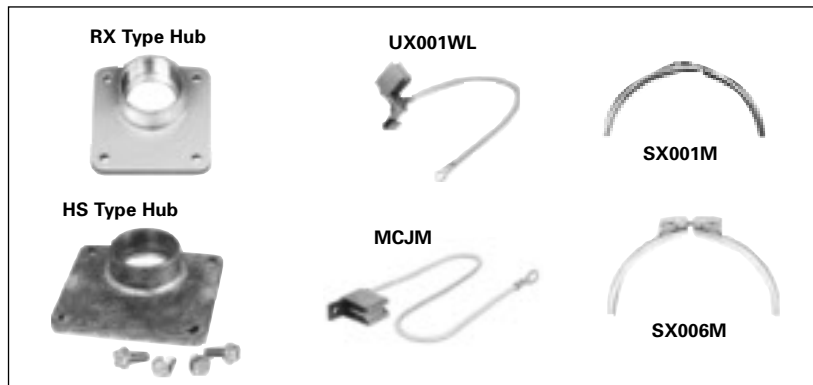
Side-By-Side 400A Construction Meter Load Center Combinations

| Amps Max. | No. of Spaces | Max. Circuits | Mounting | Service | Meter Socket | Catalog Number | Replaces | Main Breaker | Dimensions | | | List Price \$ | Figure |
|-----------|---------------|---------------|----------|---------|--------------|----------------|----------|--------------------------------------|------------|-------|-------|---------------|--------|
| | | | | | | | | | Height | Width | Depth | | |
| 400 | 8 | 16 | Surface | OH/UG | Plug In | JA0816B1400SC | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 33.1 | 6.4 | 5246.00 | 1 |
| 400 | 8 | 16 | Flush | UG | Plug In | JA0816B1400FD | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 7.3 | 4911.00 | 1 |
| 400 | 8 | 16 | Surface | OH/UG | Test Blk | JA0816B1400SCS | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 33.1 | 6.4 | 5554.00 | 1 |
| 400 | 8 | 16 | Flush | UG | Test Blk | JA0816B1400FDS | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 7.3 | 5550.00 | 1 |
| 400 | 30 | 42 | Surface | UG | Plug In | JA3042B1400SD | JL230S | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 6.4 | 5986.00 | 2 |
| 400 | 30 | 42 | Surface | UG | Test Blk | JA3042B1400SDS | BY1455GL | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 6.4 | 6052.00 | 2 |
| 400 | 30 | 42 | Surface | UG | Bolt In | JA3042B1400SDB | JK330S | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 6.4 | 5986.00 | 2 |
| 400 | 30 | 42 | Surface | UG | Lever | JA3042B1400SDL | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 7.3 | 5818.00 | 2 |
| 400 | 30 | 42 | Flush | UG | Plug In | JA3042B1400FD | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 7.3 | 5958.00 | 2 |
| 400 | 30 | 42 | Surface | OH/UG | Plug In | JA3042B1400SC | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 33.1 | 6.4 | 5962.00 | 2 |
| 400 | 30 | 42 | Flush | UG | Test Blk | JA3042B1400FDS | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 30.1 | 7.3 | 6308.00 | 2 |
| 400 | 30 | 42 | Surface | OH/UG | Test Blk | JA3042B1400SCS | — | Factory QN2200RH Field QP(H), QNR(H) | 39.6 | 33.1 | 6.4 | 6311.00 | 2 |

Combination Meter Sockets

Combination Meter Sockets

Electriccenter Accessories



Interchangeable Hubs

| Conduit Size (Inches) Lbs. | Catalog Number | List Each |
|---------------------------------------|----------------|-----------|
| HS Type Hubs | | |
| ¾ | ECHS075 | 42.00 |
| 1 | ECHS100 | 42.00 |
| 1¼ | ECHS125 | 42.00 |
| 1½ | ECHS150 | 42.00 |
| 2 | ECHS200 | 73.00 |
| 2½ | ECHS250 | 116.00 |
| RX Type Hubs | | |
| ¾ | EC38594 | 22.90 |
| 1 | EC38596 | 37.81 |
| 1¼ | EC38597 | 37.81 |
| 1½ | EC38598 | 23.96 |
| 2 | EC38599 | 23.96 |
| 2½ | EC38600 | 107.57 |
| HV Type Hubs | | |
| 2 | ECHV200 | 97.00 |
| 2½ | ECHV250 | 133.00 |
| 3 | ECHV300 | 193.00 |
| 3½ | ECHV350 | 291.00 |
| 4 | ECHV400 | 385.00 |
| HC Type Hubs | | |
| 2 | ECHC200 | 77.00 |
| 2½ | ECHC250 | 115.00 |
| 3 | ECHC300 | 186.00 |
| Accessories and Closure Plates | | |
| Adapter Plate | ECHCRXA | 22.50 |
| Closure Plates | ECHC000 | 25.50 |
| | ECHS000 | 40.50 |
| | ECHV000 | 25.00 |
| | EC38595 | 38.34 |

Grounding Bars (Al/Cu — except where noted)

Grounding bars are for use where grounding of electrical outlets and devices is by means of conductors. Each bar is equipped with large connectors rated for one #14-1/0 or, two or three #14-10 Cu/Al and small connectors rated for one #14-6 or, two #14-12 Cu/Al. (May be restricted by wire bending space.)

| Length | Number of Connectors | | | Catalog Number | List Each |
|--------|----------------------|-------|-------|----------------|-----------|
| | Total | Large | Small | | |
| 1½ | 4 | 0 | 4 | ECLX068M | 12.50 |
| 2¾ | 7 | 2 | 5 | ECLX069M | 16.60 |
| 3½ | 11 | 3 | 8 | ECLX071M | 16.60 |
| 4¾ | 15 | 4 | 11 | ECLX072M | 18.80 |
| 5¾ | 19 | 5 | 14 | ECLX073M | 19.80 |
| 7 | 23 | 6 | 17 | ECLX074M | 27.00 |
| 8¾ | 27 | 7 | 20 | ECLX075M | 30.50 |

Sealing Rings

| Description | Catalog Number | List Each |
|------------------------|----------------|-----------|
| Snap-on type, aluminum | SRSTD | 17.47 |
| Screw type, aluminum | SRSW | 25.03 |

Miscellaneous Accessories

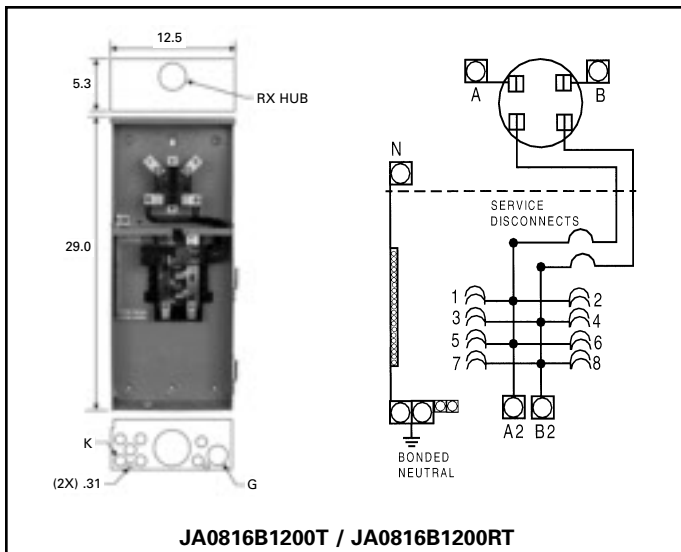
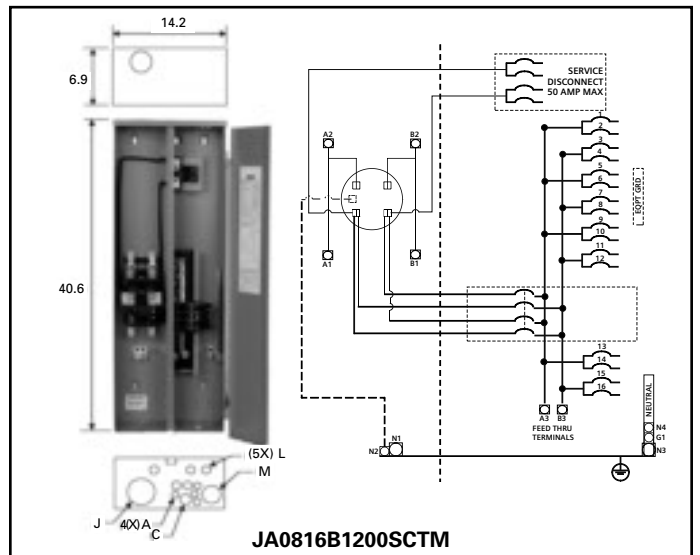
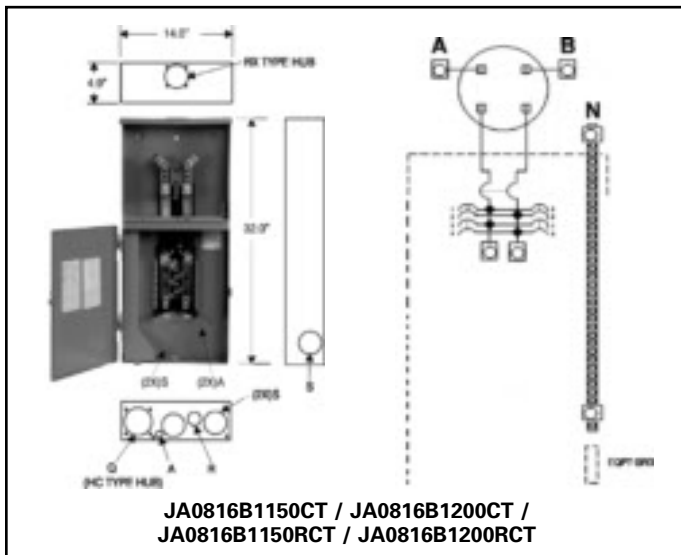
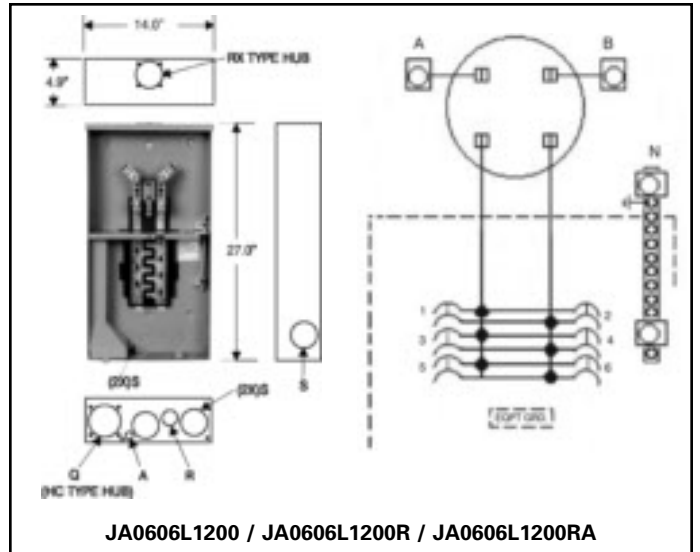
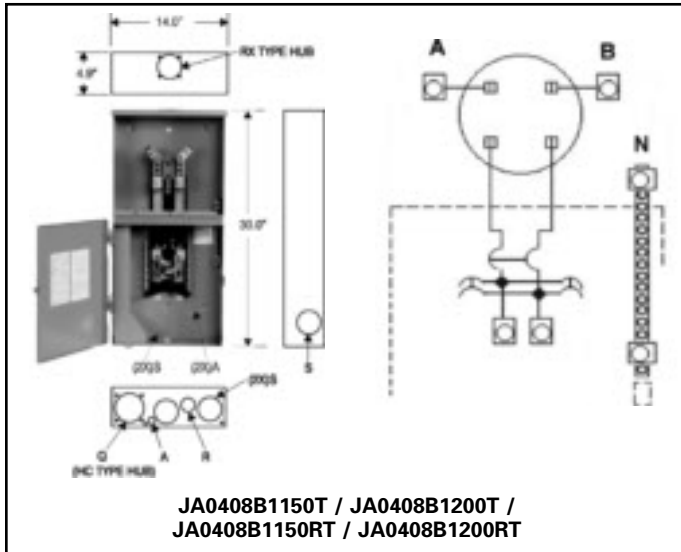
| Description | Catalog Number | List Each |
|---|----------------|-----------|
| Plastic Meter Opening Cover (JA, JC) | ECPP | 20.00 |
| Plastic Meter Cover Ringless (JB) | ECCP3 | 22.50 |
| Fifth Jaw (for old style JA & JC units only) | UX001WL | 25.00 |
| NEMA Stud Mechanical Lugs for JB, JK and JL units ^① (2) #6-350 kcmil (1) #2-600 kcmil Al/Cu (2) #500-1000 kcmil Al/Cu | UK350TA | 59.00 |
| | UK600TA | 53.00 |
| | UK1000TA | 68.00 |
| 5th jaw for new style JA & JC devices | EMC5J | 77.00 |
| Neutral Feeder Lugs #2-1/0 #4-2/0 #1-350 kcmil | ECLK1 | 9.30 |
| | ECLK2 | 19.60 |
| | ECLK3 | 25.50 |
| | | |

① Order one for each phase and neutral.
② No main breaker provided. Accept MD-T or MP-T type 2 or 4-pole breakers.

| Catalog Number | Main Breaker | 5th Jaw |
|-----------------|--|----------|
| JC002CS | MP-T | — |
| JC002CZ | MP-T | — |
| JC002AR | MP-T | — |
| JC0406L1200H | (1) MD-T, MD-HT or (2) MP-T, MP-HT | ECMC5J |
| JC0406L1200RH | | ECMC5J |
| JC0406L1200RHJB | | Included |
| JC0404L1400RLM | (2) MD-T(R), MD-HT(R), MP-T, MP-HT | S35815-2 |
| JC0202B1125RJB | MP2125KH | Included |
| JC0202B1200 | MPD2200KH | ECMC5J |
| JC0202B1200R | MPD2200KH | ECMC5J |
| JC0202B1200RJB | MPD2200KH | Included |
| JA0408B1150T | ME9683 | EC5J2 |
| JA0408B1150RT | ME9683 | EC5J2 |
| JA0816B1150CT | ME9683 | EC5J2 |
| JA0816B1150RCT | ME9683 | EC5J2 |
| JA0606L1200 | ⊙ | EC5J2 |
| JA0606L1200R | ⊙ | EC5J2 |
| JA0606L1200RA | ME9683 | EC5J2 |
| JA0408B1200T | ME9683 | EC5J2 |
| JA0408B1200RT | ME9683 | EC5J2 |
| JA0816B1200CT | ME9683 | EC5J2 |
| JA0816B1200RCT | ME9683 | EC5J2 |
| JC002CS | MP-T | — |
| JC002CZ | MP-T | — |
| JC002AR | MP-T | — |
| JC0406L1200H | (1) MD-T, MD-HT or (2) MP-T, MP-HT | ECMC5J |
| JC0406L1200RH | | ECMC5J |
| JC0406L1200RHJB | | Included |
| JC0404L1400RLM | (2) MD-T(R), MD-HT(R), MP-T, MP-HT | RX815FJ |
| JA1212L1200FED | NA | ECMC5J |
| JA1212L1200SED | NA | ECMC5J |
| JA2040B1200FED | MBK200M | ECMC5J |
| JA2040B1200SED | MBK200M | ECMC5J |
| JA3042B1200FED | MBK200M | ECMC5J |
| JA3042B1200SED | MBK200M | ECMC5J |
| JA3042B1225FED | MBK225M | ECMC5J |
| JA3042B1225SED | MBK225M | ECMC5J |
| JA1224B1100FEC | MP2100KH | ECMC5J |
| JA1224B1100SEC | MP2100KH | ECMC5J |
| JA1632B1100FEC | MP2100KH | ECMC5J |
| JA1632B1100SEC | MP2100KH | ECMC5J |
| JA1224B1125FEC | MP2125KH | ECMC5J |
| JA1224B1125SEC | MP2125KH | ECMC5J |
| JA1632B1125FEC | MP2125KH | ECMC5J |
| JC0406L1125FEC | MP2125KH | ECMC5J |
| JC0406L1125SEC | MP2125KH | ECMC5J |
| JA2442B1200FEC | MEQ9985 | ECMC5J |
| JA2442B1200SEC | MEQ9985 | ECMC5J |
| JC0406L1200FEC | MEQ9985 | ECMC5J |
| JC0406L1200SEC | MEQ9985 | ECMC5J |
| JA3040B1200SECW | MPD2200RH | ECMC5J |
| JA4040B1200SECW | MPD2200RH | ECMC5J |

Combination Meter Sockets

Dimensions and Wiring Schematics

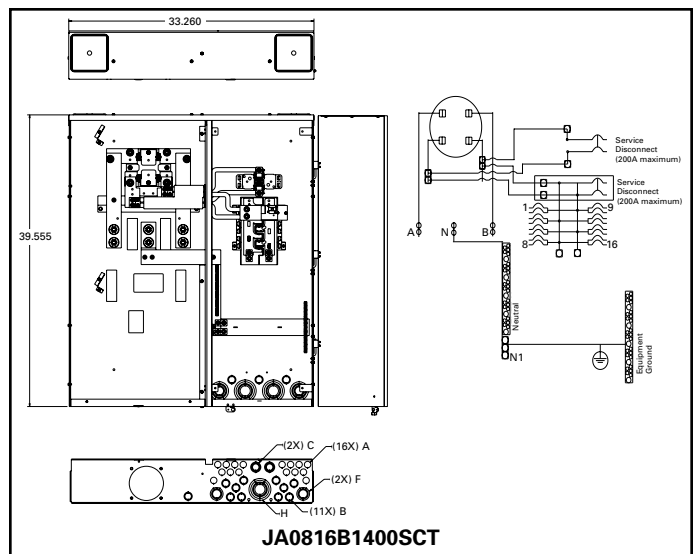
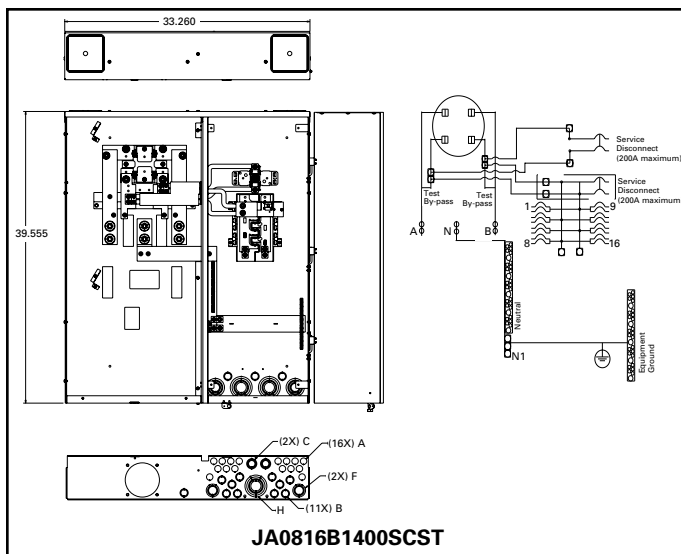
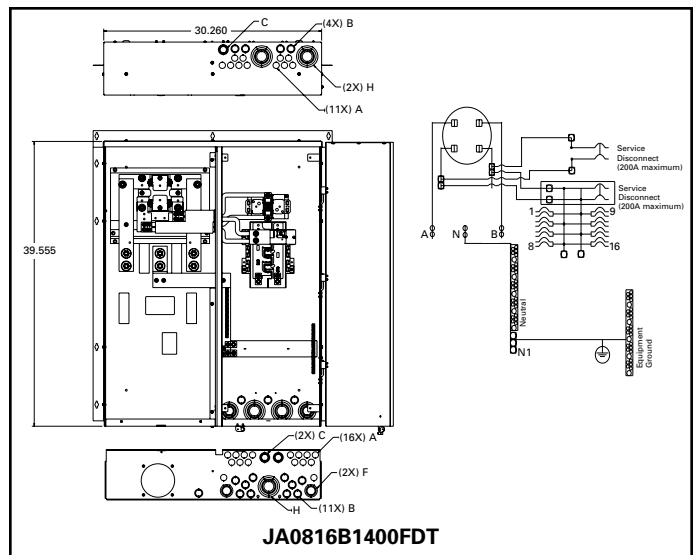
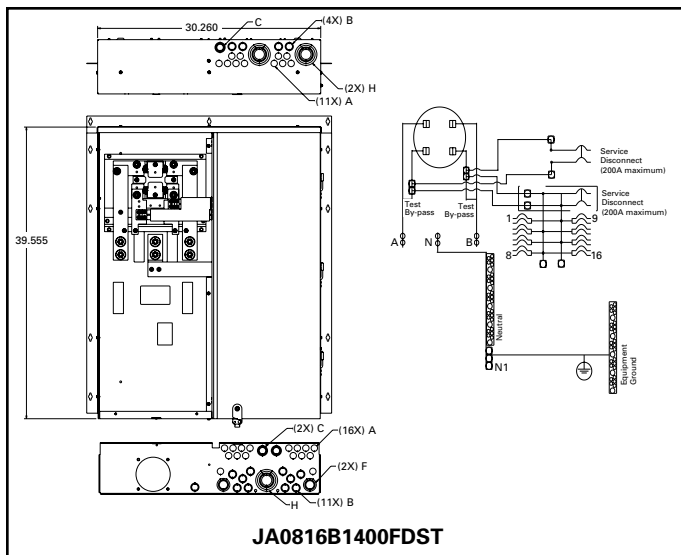
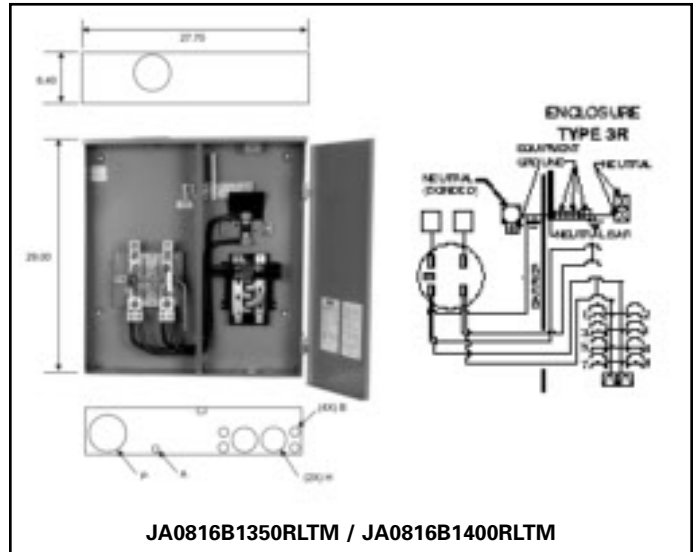
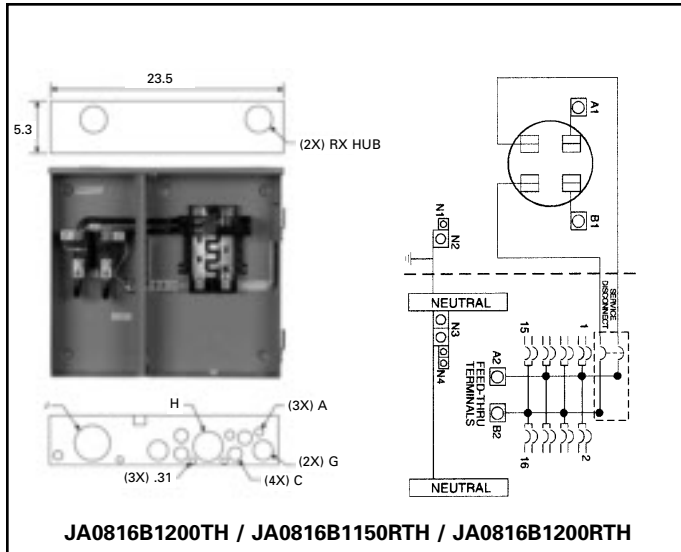


Knockout Code — Conduit Sizes

- A = 1/2
- B = 1/2, 3/4
- C = 1/2, 3/4, 1
- D = 3/4, 1 1/4, 1 1/2
- E = 1, 1 1/4, 1 1/2, 2
- F = 3/4, 1, 1 1/4
- G = 1, 1 1/4, 1 1/2
- H = 1, 1 1/4, 1 1/2, 2, 2 1/2
- J = 1 1/4, 1 1/2, 2, 2 1/2, 3
- K = 1, 1 1/4, 2, 2 1/2, 3
- L = 3/8, 1/2, 3/4
- M = 3/4, 1, 1 1/4, 1 1/2, 2
- N = 1/4
- P = 2, 2 1/2, 3, 3 1/2, 4

Combination Meter Sockets

Dimensions and Wiring Schematics

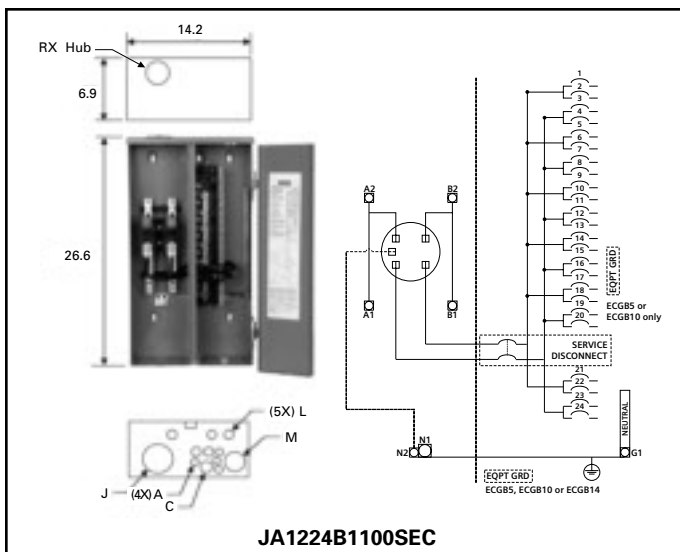
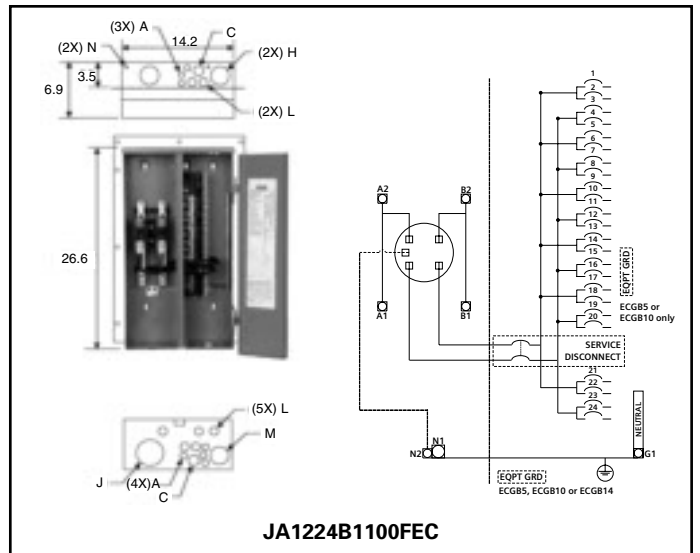
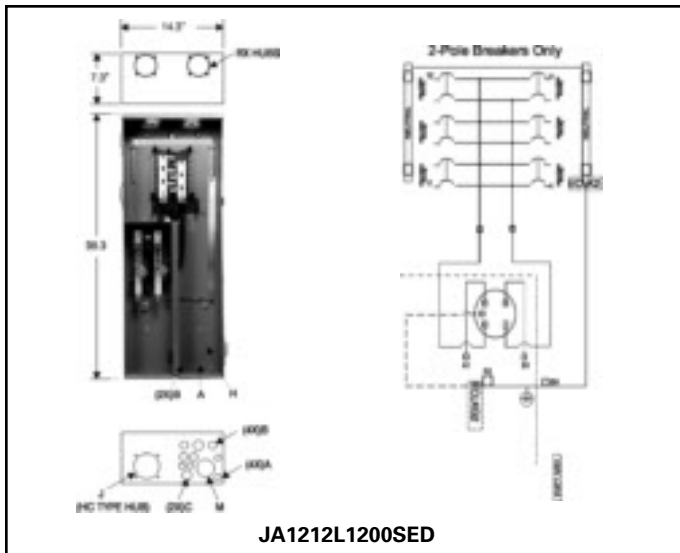
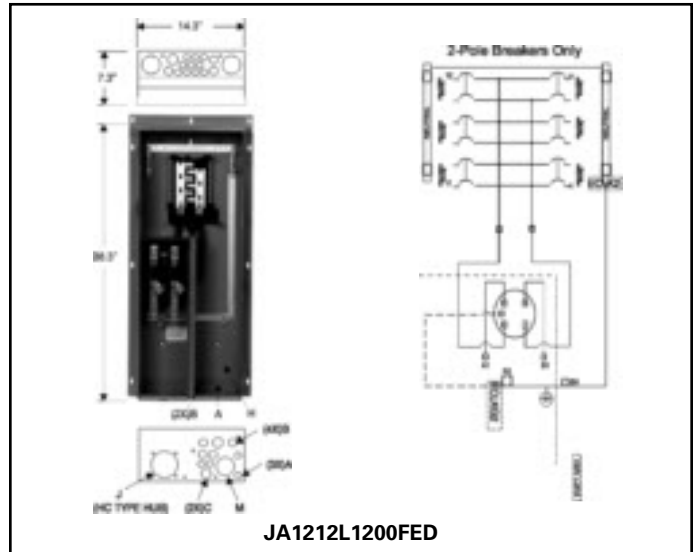
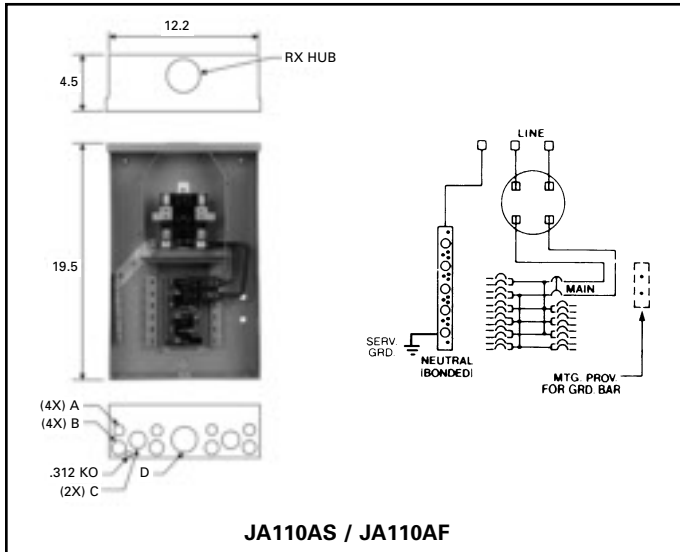


3 METER CENTERS

Combination Meter Sockets

Combination Meter Sockets

Dimensions and Wiring Schematics

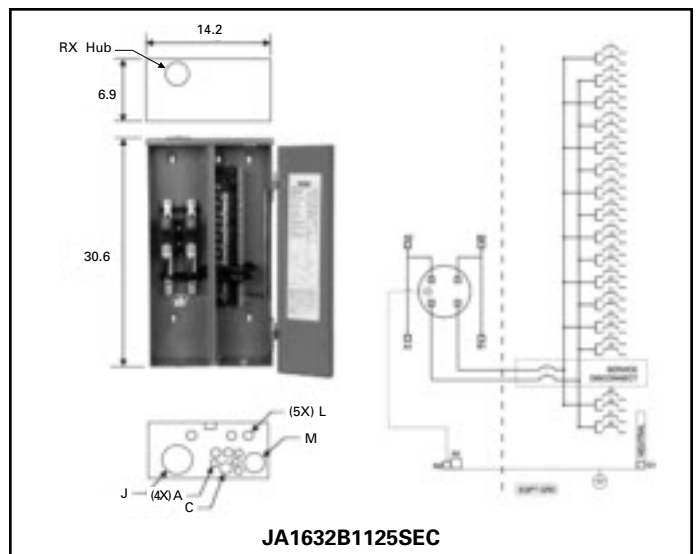
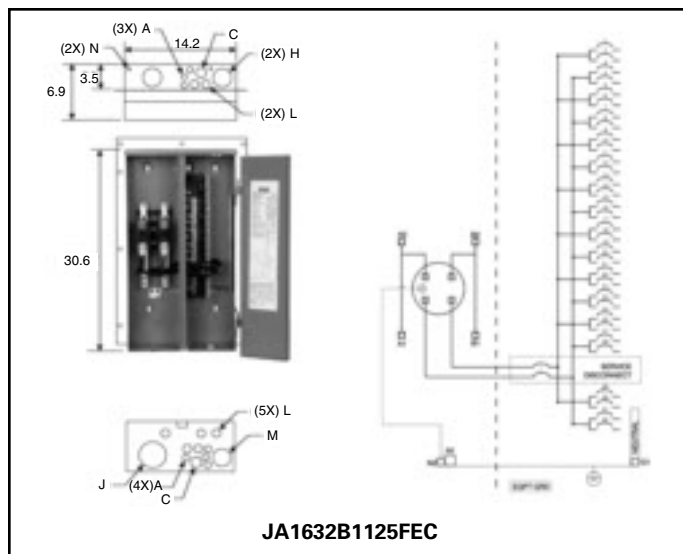
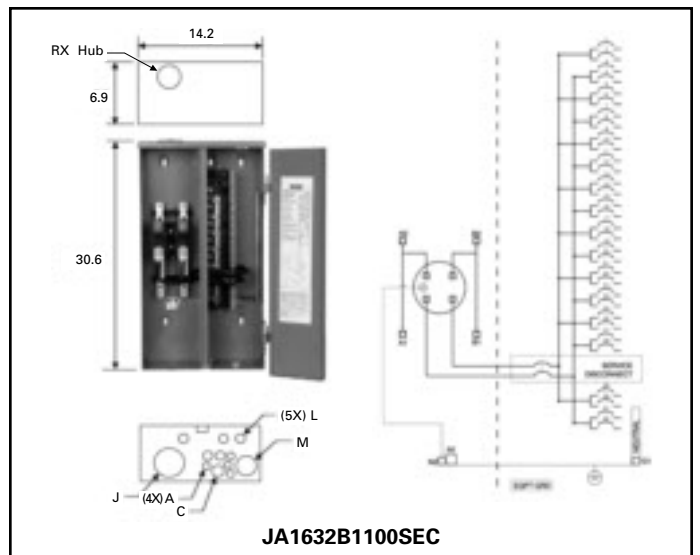
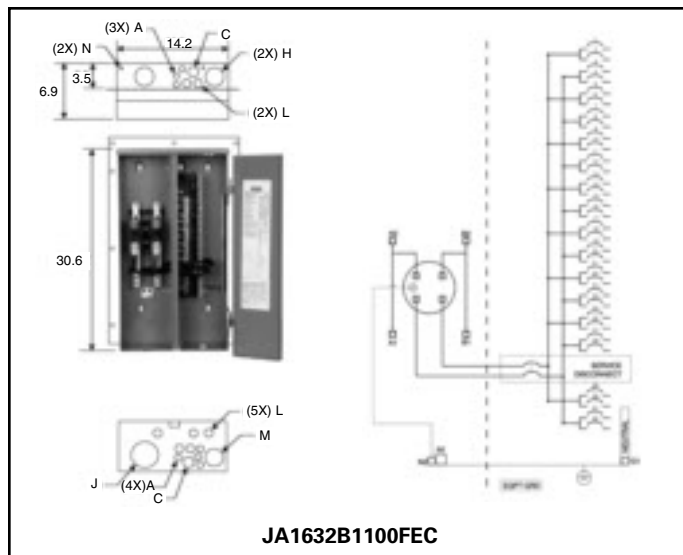
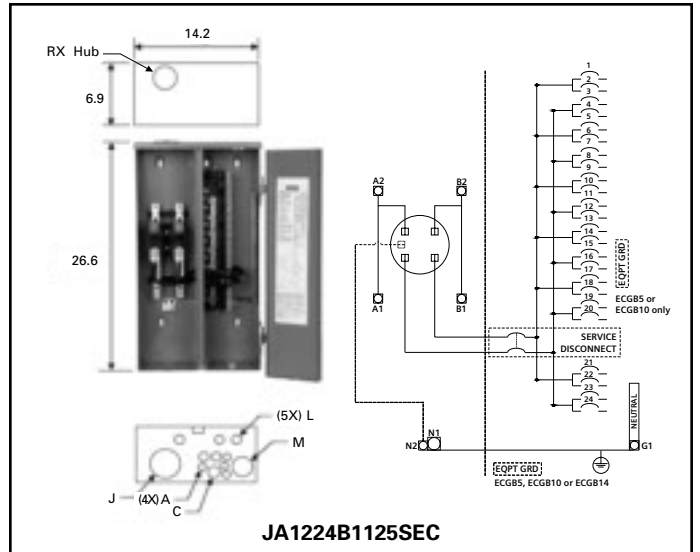
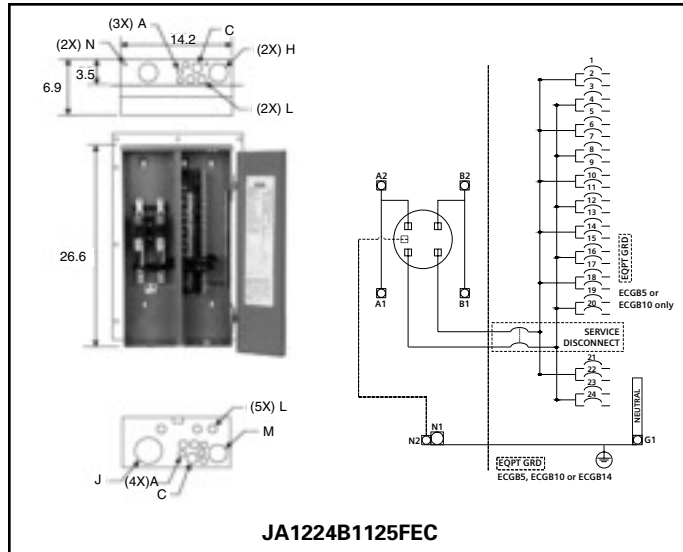


Knockout Code — Conduit Sizes

- A = 1/2
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- C = 1/2, 3/4, 1
- D = 3/4, 1 1/4, 1 1/2
- E = 1, 1 1/4, 1 1/2, 2
- F = 3/4, 1, 1 1/4
- G = 1, 1 1/4, 1 1/2
- H = 1, 1 1/4, 1 1/2, 2, 2 1/2
- J = 1 1/4, 1 1/2, 2, 2 1/2, 3
- K = 1, 1 1/4, 2, 2 1/2, 3
- L = 3/8, 1/2, 3/4
- M = 3/4, 1, 1 1/4, 1 1/2, 2
- N = 1/4
- P = 2, 2 1/2, 3, 3 1/2, 4

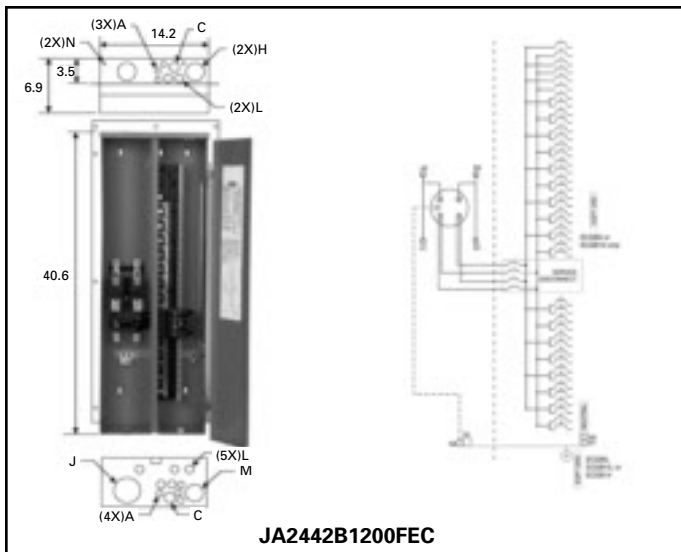
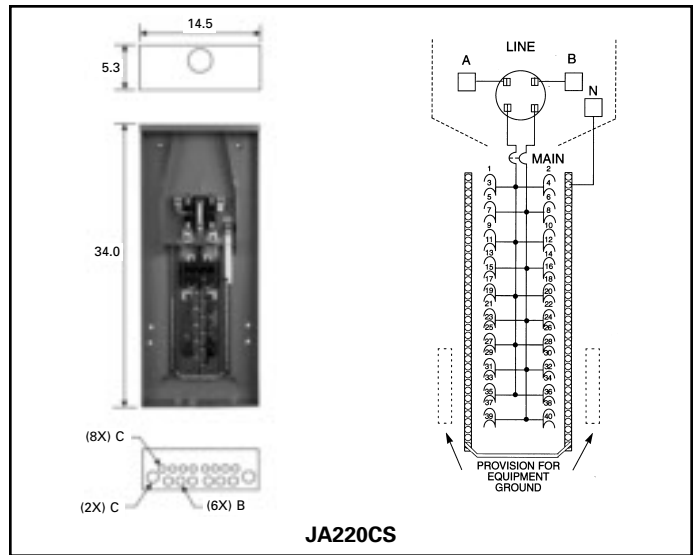
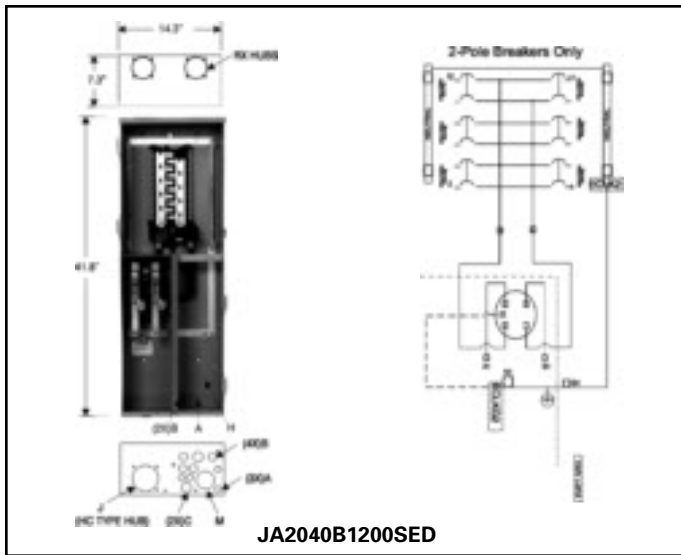
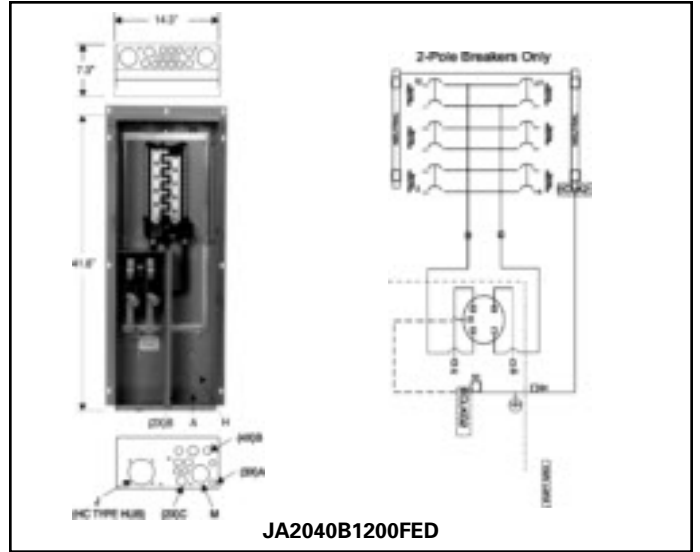
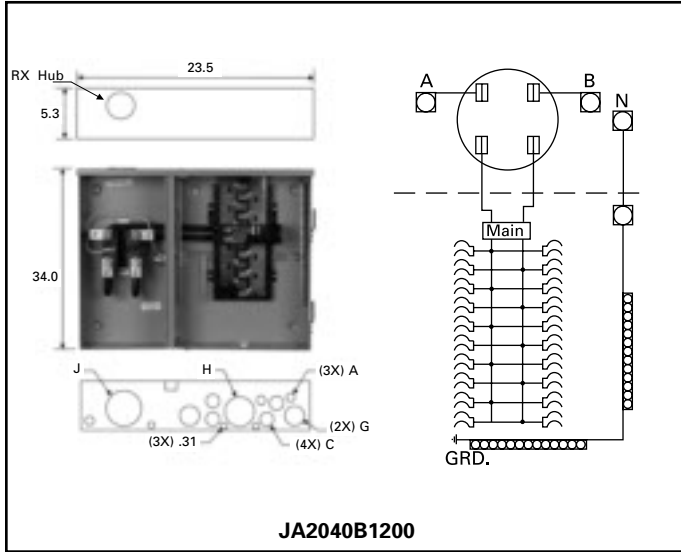
Combination Meter Sockets

Dimensions and Wiring Schematics



Combination Meter Sockets

Dimensions and Wiring Schematics

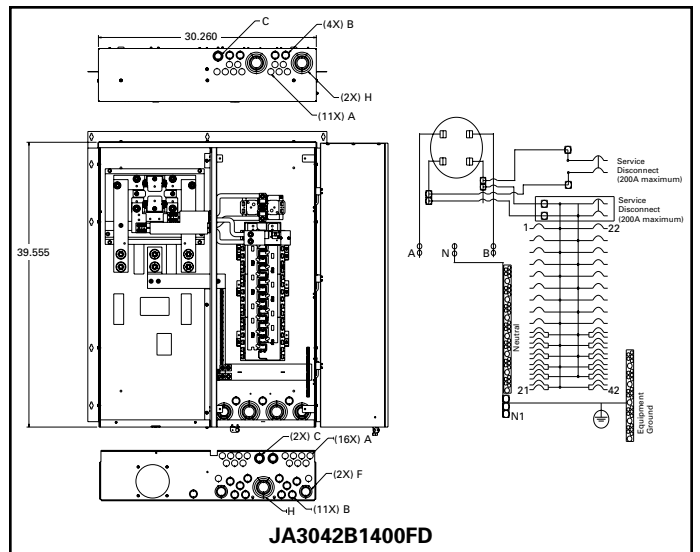
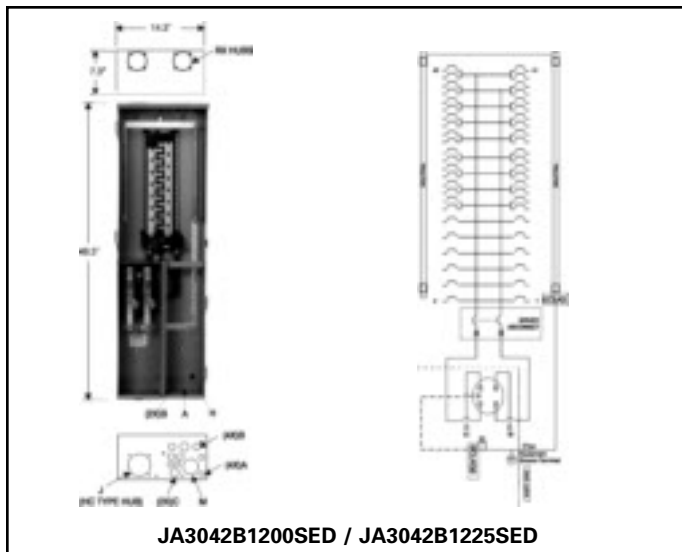
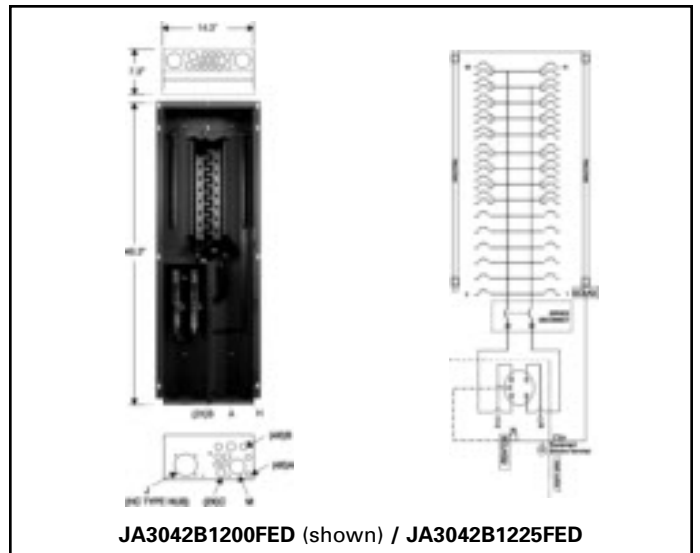
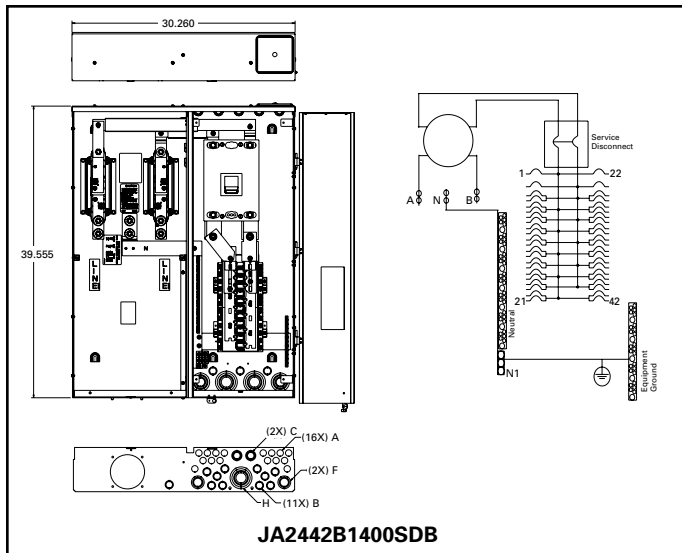
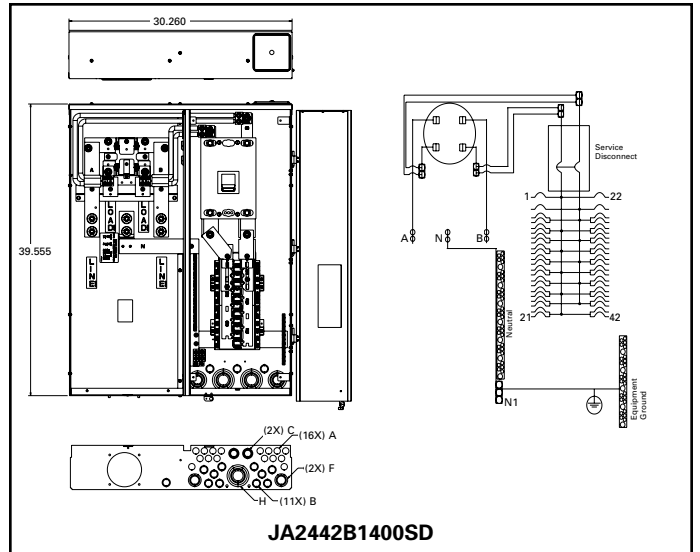
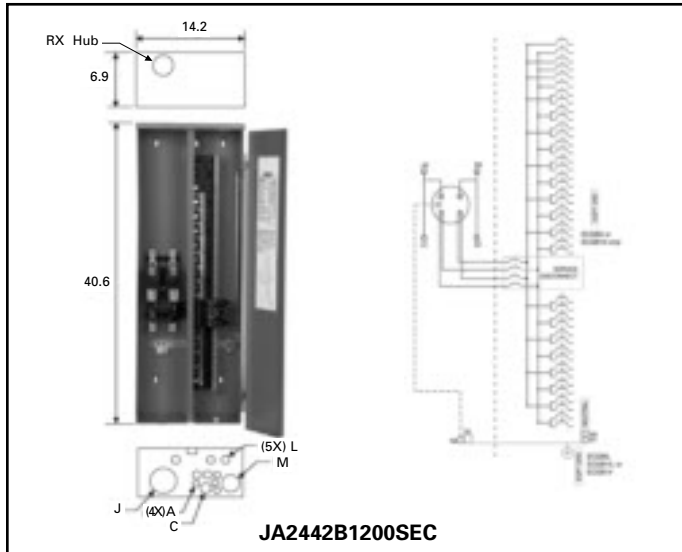


Knockout Code — Conduit Sizes

- A = 1/2
- B = 1/2, 3/4
- C = 1/2, 3/4, 1
- D = 3/4, 1 1/4, 1 1/2
- E = 1, 1 1/4, 1 1/2, 2
- F = 3/4, 1, 1 1/4
- G = 1, 1 1/4, 1 1/2
- H = 1, 1 1/4, 1 1/2, 2, 2 1/2
- J = 1 1/4, 1 1/2, 2, 2 1/2, 3
- K = 1, 1 1/4, 2, 2 1/2, 3
- L = 3/8, 1/2, 3/4
- M = 3/4, 1, 1 1/4, 1 1/2, 2
- N = 1/4
- P = 2, 2 1/2, 3, 3 1/2, 4

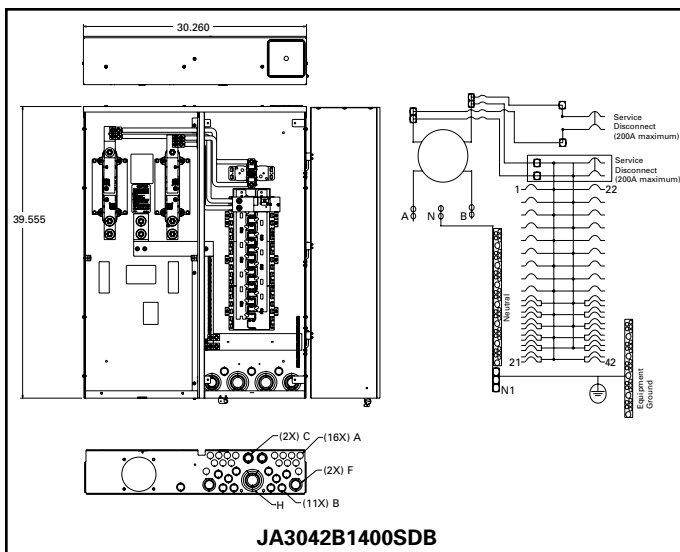
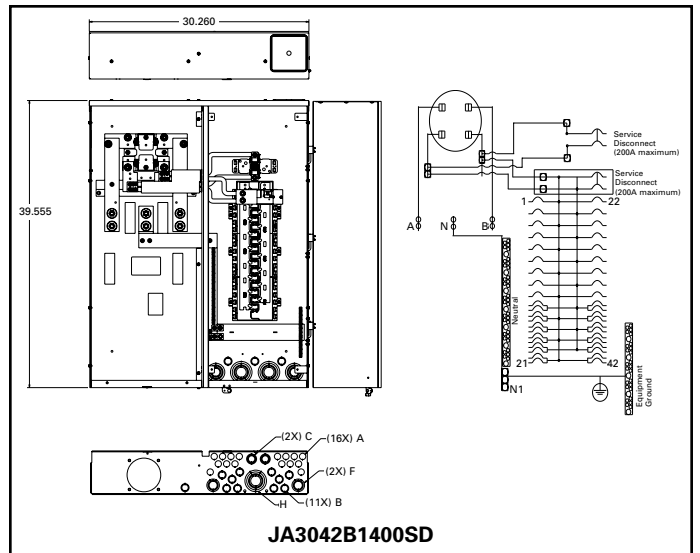
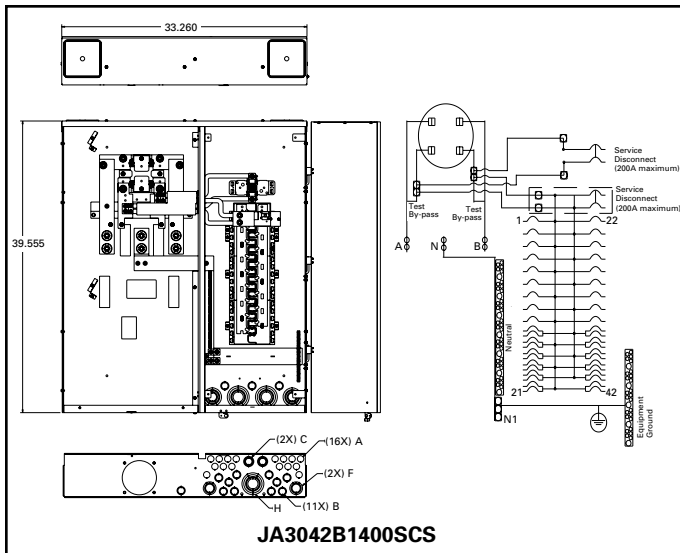
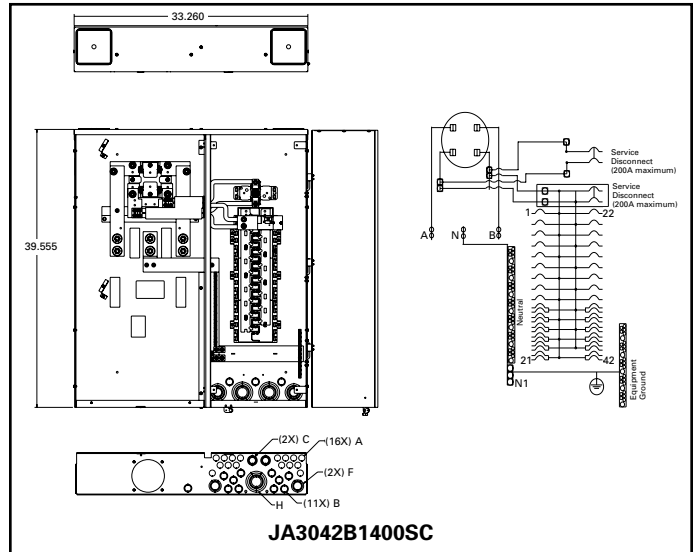
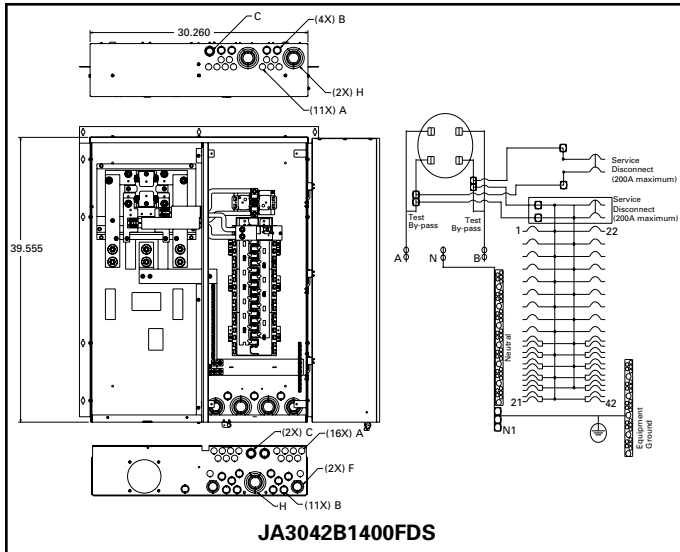
Combination Meter Sockets

Dimensions and Wiring Schematics



Combination Meter Sockets

Dimensions and Wiring Schematics

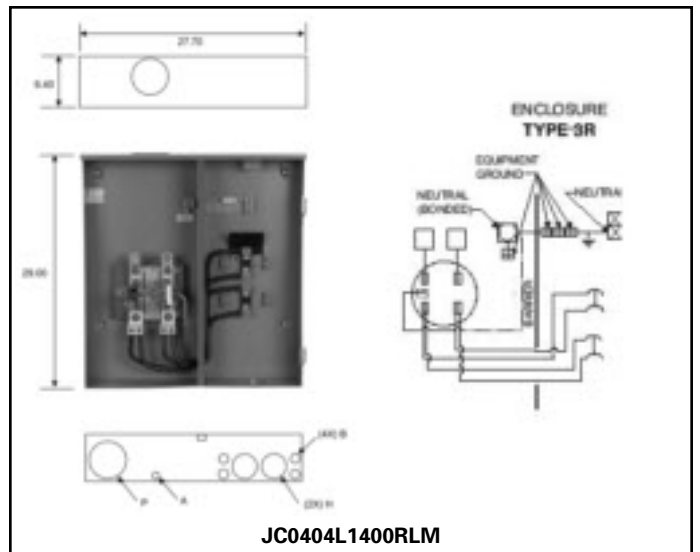
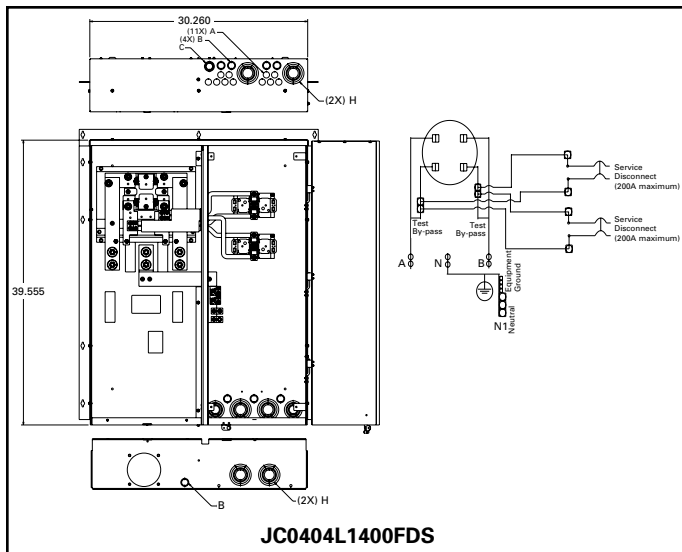
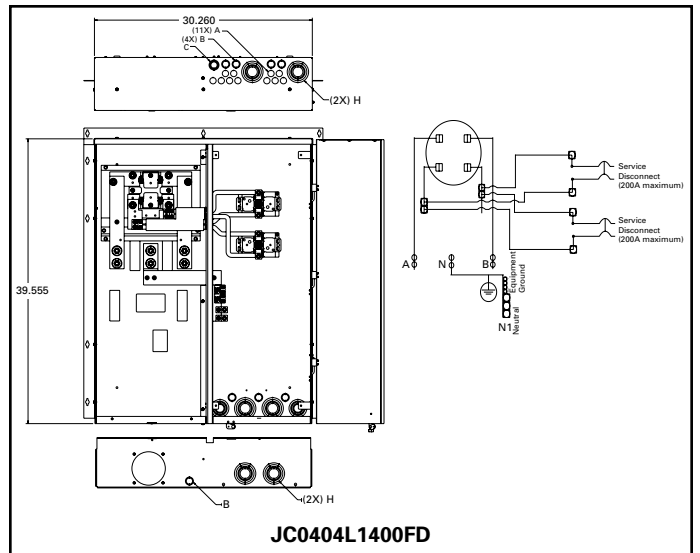
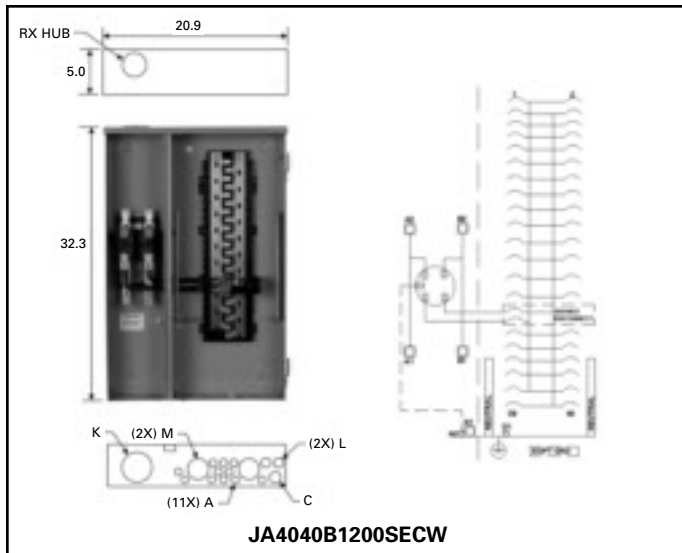
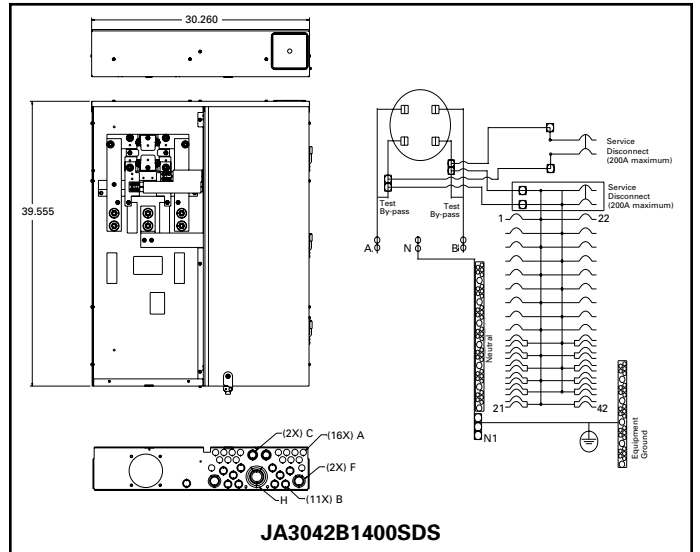
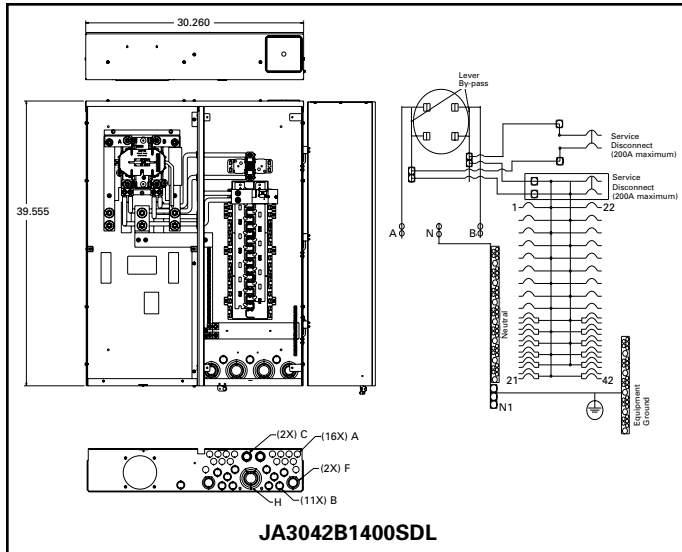


Knockout Code — Conduit Sizes

- A = ½
- B = ½, ¾
- C = ½, ¾, 1
- D = ¾, 1¼, 1½
- E = 1, 1¼, 1½, 2
- F = ¾, 1, 1¼
- G = 1, 1¼, 1½
- H = 1, 1¼, 1½, 2, 2½
- J = 1¼, 1½, 2, 2½, 3
- K = 1, 1¼, 2, 2½, 3
- L = ¾, ½, ¾
- M = ¾, 1, 1¼, 1½, 2
- N = ¼
- P = 2, 2½, 3, 3½, 4

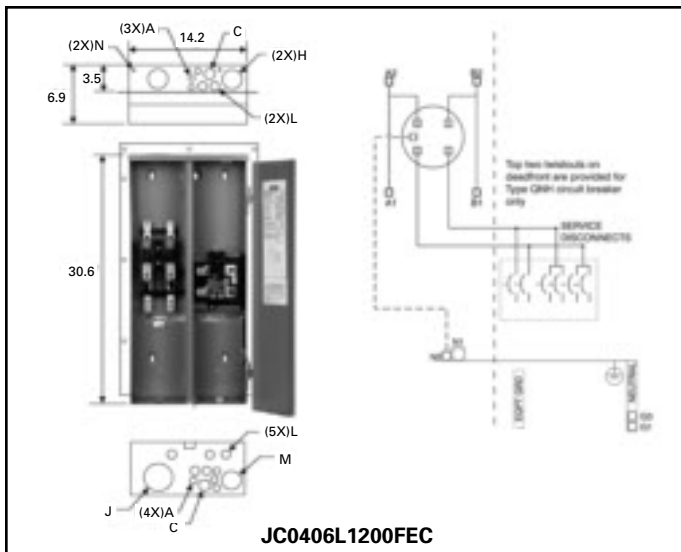
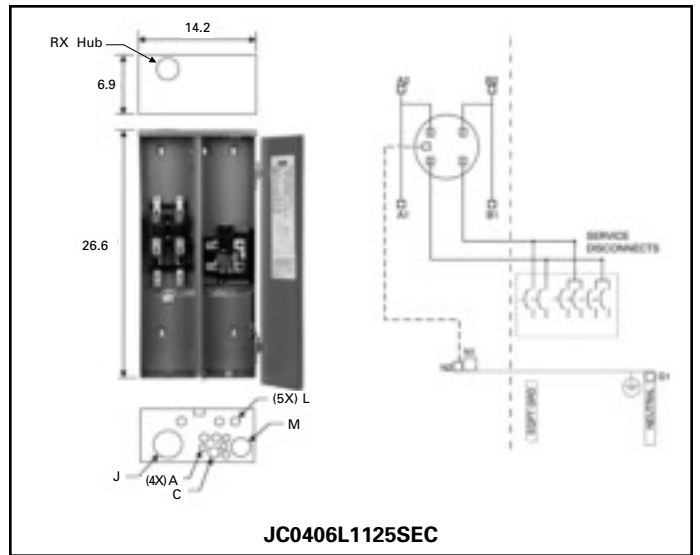
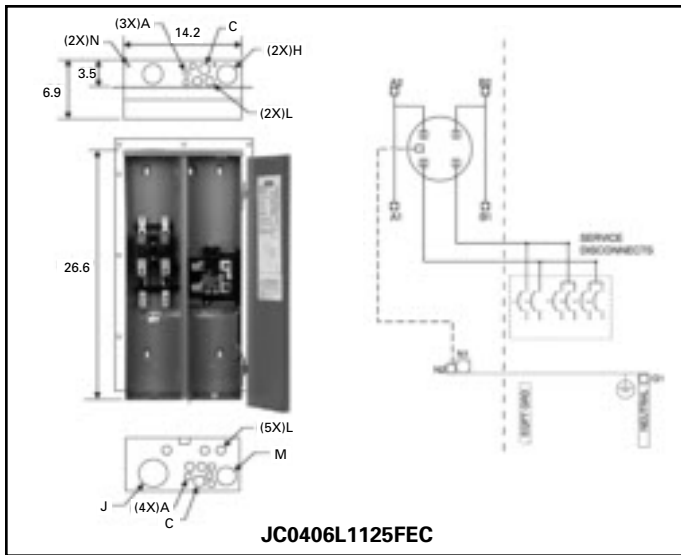
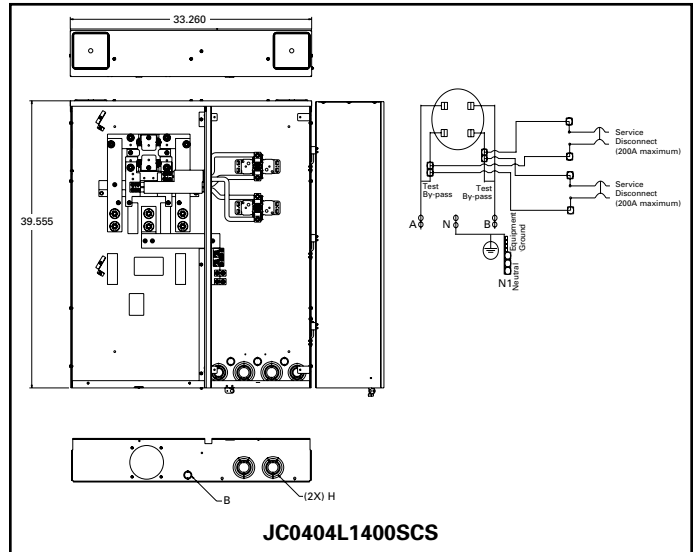
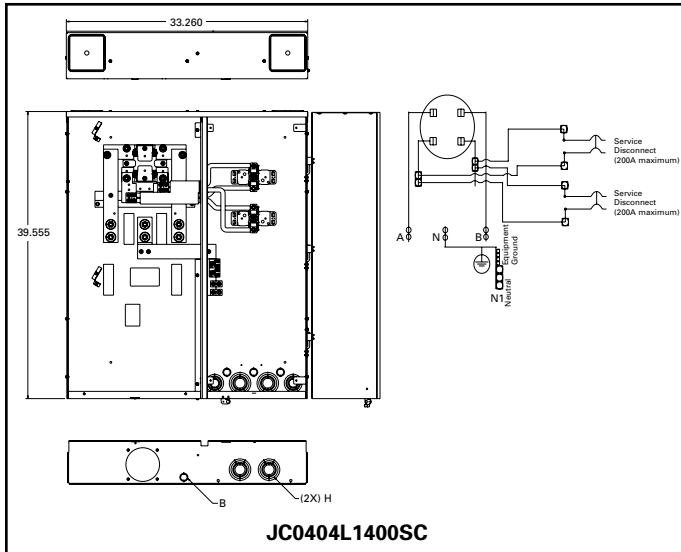
Combination Meter Sockets

Dimensions and Wiring Schematics



Combination Meter Sockets

Dimensions and Wiring Schematics

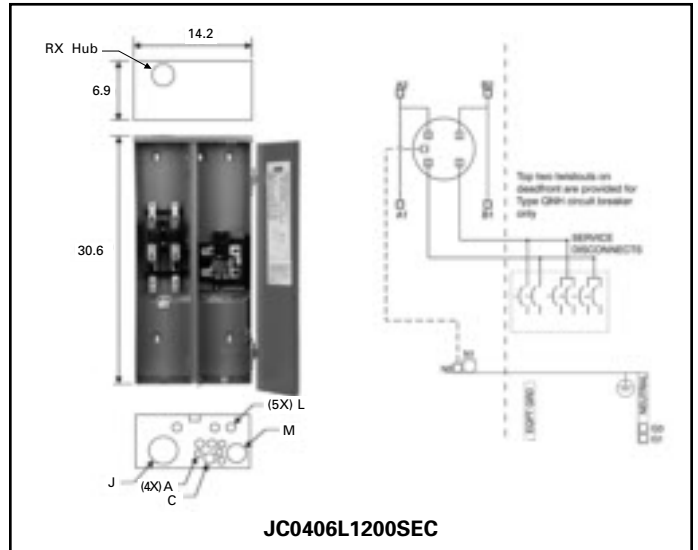
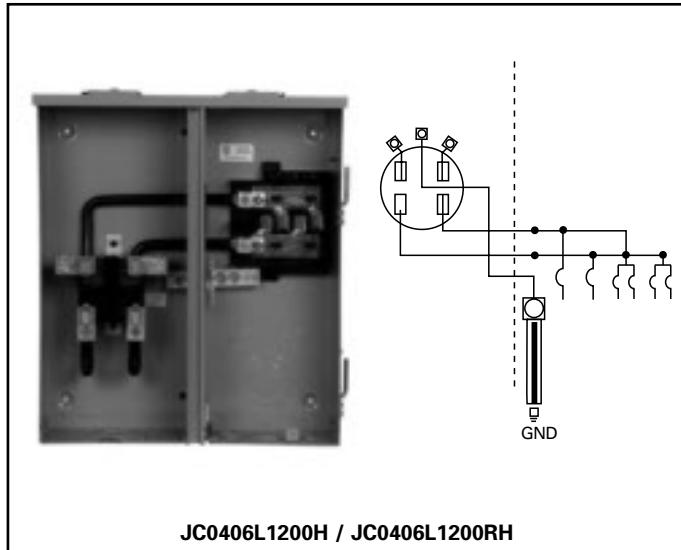


Knockout Code — Conduit Sizes

- A = 1/2
- B = 1/2, 3/4
- C = 1/2, 3/4, 1
- D = 3/4, 1 1/4, 1 1/2
- E = 1, 1 1/4, 1 1/2, 2
- F = 3/4, 1, 1 1/4
- G = 1, 1 1/4, 1 1/2
- H = 1, 1 1/4, 1 1/2, 2, 2 1/2
- J = 1 1/4, 1 1/2, 2, 2 1/2, 3
- K = 1, 1 1/4, 2, 2 1/2, 3
- L = 3/8, 1/2, 3/4
- M = 3/4, 1, 1 1/4, 1 1/2, 2
- N = 1/4
- P = 2, 2 1/2, 3, 3 1/2, 4

Combination Meter Sockets

Dimensions and Wiring Schematics



3

METER CENTERS

Knockout Code — Conduit Sizes

- A = ½
- B = ½, ¾
- C = ½, ¾, 1
- D = ¾, 1¼, 1½
- E = 1, 1¼, 1½, 2
- F = ¾, 1, 1¼
- G = 1, 1¼, 1½
- H = 1, 1¼, 1½, 2, 2½
- J = 1¼, 1½, 2, 2½, 3
- K = 1, 1¼, 2, 2½, 3
- L = ¾, ½, ¾
- M = ¾, 1, 1¼, 1½, 2
- N = ¼
- P = 2, 2½, 3, 3½, 4

Combination
Meter Sockets

EUSERC Commercial Metering

Commercial Type BY Meter-Main Combinations



Design/Performance Features

- Outdoor/Indoor—one design for either installation.
- Ring Type—meets requirements for various ring type locking provisions.
- Test Block Bypass Installed—easy servicing without interruption.
- Main Breaker Field Installed—adaptable to the job.
- Main T-Fuse puller factory installed (less fuses)—adaptable to the job.

Industry Specifications

- ANSI – Standard #C 12.7
- NEMA – Standard #250
Standard #PB1
- UL – Standard #414
Standard #67
- EUSERC – SEC #300

Systems

- 100/200 amperes maximum meter
- 120/240V AC, 1ø3W, 4 jaw
- 208Y/120V AC, 3W network, 5 jaw or 3ø4W, 7 jaw
- 240V AC, 1ø3W, 3ø3W, or 3ø4W, 4, 5 or 7 jaw
- 10,000 to 100,000 AIC

In addition to local code and National Electrical Code requirements, the serving utility may have special requirements for metering devices. Confirm meter socket acceptance prior to order placement.

Ring Type Meter-Main Combinations 100-200 Amp Max.

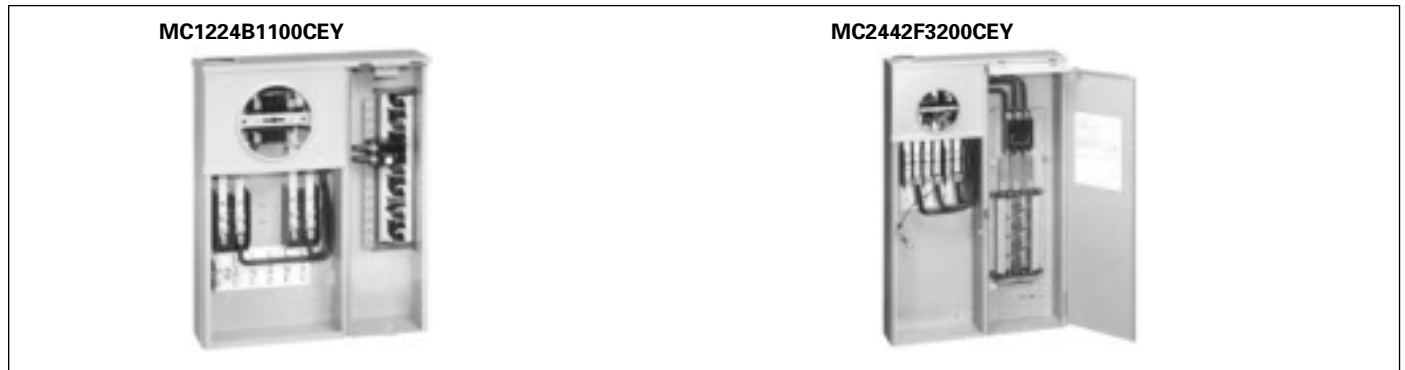
| 240V AC Max | Amps Cont. Duty | Max AIC | Tenant Main [®] | CB Provision | Service | Jaws | Catalog Number | Old Catalog Number | Service Feed | Dimensions (inches) [Ⓛ] | | | KO Fig. | Wire Range AL/CU | Hub Provision | List Price \$ |
|-------------|-----------------|----------------------------|--------------------------|--------------|----------------|------|----------------|--------------------|--------------|----------------------------------|-------|-------|---------|------------------|---------------|---------------|
| | | | | | | | | | | Height | Width | Depth | | | | |
| 100 | 65,000 | Circuit Breaker Provision | MP-T/MP-HT/MP-MT | None | 1 Phase-3 Wire | 4 | MM0202L1100EY | BY111GK | OH | 36.00 | 12.50 | 4.88 | 1 | #6-2/0 Box Lug | RX | 910.00 |
| | | | | | 3 Phase-4 Wire | 7 | MM0303L3100EY | BY111JK | OH | 36.00 | 12.50 | 4.88 | 1 | #6-2/0 Box Lug | RX | 1345.00 |
| | 100,000 | T-Fuse Puller [®] | None | None | 1 Phase-3 Wire | 4 | MM0202F1100EY | BY116GK | OH | 36.00 | 12.50 | 4.88 | 1 | #6-2/0 Box Lug | RX | 1847.00 |
| | | | | | | | MM0202F1100CEY | BY116GU | OH/UG | 24.00 | 20.13 | 4.88 | 3 | #6-2/0 Box Lug | | 1689.00 |
| | | | | | 3 Phase-4 Wire | 7 | MM0303F3100EY | BY116JK | OH | 36.00 | 12.50 | 4.88 | 1 | #6-2/0 Box Lug | | 2473.00 |
| | | | | | | | MM0303F3100CEY | BY116JU | OH/UG | 24.00 | 20.13 | 4.88 | 3 | #6-2/0 Box Lug | | 2259.00 |
| 200 | 35,000 | Circuit Breaker Provision | MQ/MQH/MQL | None | 1 Phase-3 Wire | 4 | MM0202L1200EY | BY125GK | OH | 45.00 | 14.25 | 6.38 | 2 | #1/0-250 kcmil | HC | 1769.00 |
| | | | | | | | MM0202L1200CEY | BY125GU | OH/UG | 30.00 | 24.25 | 6.38 | 4 | #1/0-250 kcmil | | 1776.00 |
| | | | | | 3 Phase-4 Wire | 7 | MM0303L3200EY | BY125JK | OH | 45.00 | 14.25 | 6.38 | 2 | #1/0-250 kcmil | | 2207.00 |
| | | | | | | | MM0303L3200CEY | BY125JU | OH/UG | 30.00 | 24.25 | 6.38 | 4 | #1/0-250 kcmil | | 2356.00 |
| | 100,000 | T-Fuse Puller [®] | None | None | 1 Phase-3 Wire | 4 | MM0202F1200EY | BY122GK | OH | 45.00 | 14.25 | 6.38 | 2 | #1/0-250 kcmil | HC | 2473.00 |
| | | | | | | | MM0202F1200CEY | BY122GU | OH/UG | 30.00 | 24.25 | 6.38 | 4 | #1/0-250 kcmil | | 2632.00 |
| | | | | | 3 Phase-4 Wire | 7 | MM0303F3200EY | BY122JK | OH | 45.00 | 14.25 | 6.38 | 2 | #1/0-250 kcmil | | 3199.00 |
| | | | | | | | MM0303F3200CEY | BY122JU | OH/UG | 30.00 | 24.25 | 6.38 | 4 | #1/0-250 kcmil | | 3461.00 |

[Ⓛ] Dimensions shown are representative of outside box length, width & depth (± 1/8") and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions. Consult factory for specific details if required.

[®] Price does not include breaker or fuses.
[®] Price does not include fuses.

EUSERC Commercial Metering

Commercial Type BY Meter-Load Center Combinations



Design/Performance Features

- Outdoor/Indoor—one design for either installation.
- Ring Type—meets requirements for various ring type locking provisions.
- Test Block Bypass Installed—easy servicing without interruption.
- Main Breakers Factory Installed.
- Main T-Fuse Pullers Factory Installed (less fuses).
- Compact wall-hung design reduces material and labor costs.

Systems

- 100A, 200A maximum meter
- 120/240V AC, 1 ϕ 3W, 4 jaws
- 240V AC, 3 ϕ 4W, 7 jaws
- 10,000 thru 100,000 AIC

Accessories — See below.

In addition to local code and National Electrical Code requirements, the serving utility may have special requirements for metering devices. Confirm meter socket acceptance prior to order placement.

Ring Type Commercial Meter-Load Center Combinations with Test Block Bypass

| 240 V AC Max. | | No. of Spaces | Max. Circuits | Service | Catalog Number | Old Catalog Number | AIC Rating | | Dimensions (inches) [Ⓞ] | | | Hub Prov. | Wire Range AL/CU | List Price \$ | Notes |
|-----------------|----------------------------|---------------|---------------|---------|----------------|--------------------|------------|---------|----------------------------------|-------|-------|-----------|------------------|---------------|-------|
| Amps Cont. Duty | Main Breaker Factory Inst. | | | | | | STD. AIC | MAX AIC | Height | Width | Depth | | | | |

1 Phase—3 Wire, 4 Jaws, Factory Installed Main Breaker

| | | | | | | | | | | | | | | | |
|-----|----------|----------|----------|-------------|---------------------------------|--------------------|------------------|------------------|----------------|----------------|--------------|----------|----------------------------------|--------------------|--------|
| 100 | MP2100 | 10 12 | 20 24 | OH OH/UG | MC1020B1100EY MC1224B1100CEY | BY119GK BY119GU | 10,000 10,000 | 65,000 42,000 | 36.00 24.00 | 12.50 20.13 | 4.88 4.88 | RX RX | #6-2/0 Box Lug #6-2/0 Box Lug | 1771.00 1839.00 | 2 2 |
| 200 | MPD200RH | 24 | 40 | OH/UG | MC2440B1200CEY | BY129GU | 10,000 | 22,000 | 30.00 | 25.75 | 6.38 | HC | #1/0-250 kcmil | 3692.00 | 2 |

3 Phase—4 Wire, 7 Jaws, Factory Installed T-Fuse Puller[Ⓢ]

| | | | | | | | | | | | | | | | |
|-----|--------------|----|----|-------|----------------|---------|---------|---------|-------|-------|------|----|----------------|---------|---|
| 100 | T-Fuse Prov. | 18 | 30 | OH/UG | MC1830F3100CEY | BY119JU | 100,000 | 100,000 | 26.00 | 24.25 | 4.88 | RX | #6-2/0 Box Lug | 3339.00 | 4 |
| 200 | T-Fuse Prov. | 24 | 42 | OH/UG | MC2442F3200CEY | BY129JU | 100,000 | 100,000 | 42.00 | 27.25 | 6.38 | HC | #1/0-250 kcmil | 3294.00 | 4 |

Safety Socket Accessories

| Description | Catalog Number | List Price \$ |
|----------------------------|-------------------|----------------|
| Hubs | | |
| Conduit Size | | |
| 1" | EC38596 | 37.81 |
| 1½" | EC38597 | 37.81 |
| 1½" | EC38598 | 23.96 |
| 2" | EC38599 | 23.96 |
| 2" | EHC200 | 77.00 |
| 2½" | EC38600 | 107.57 |
| 2½" | EHC250 | 115.00 |
| 3" | EHC300 | 186.00 |
| Closure Plates | EC38595 EHC000 | 38.34 25.50 |
| Adapter Plates Bottom Only | EHCXRA | 22.50 |

| Description | Catalog Number | List Price \$ |
|-------------|----------------|---------------|
| Fifth Jaw | | |
| 100A | UX001WL | 25.00 |
| 200A | UX005B | 110.00 |

[Ⓞ] Dimensions shown are representative of outside box length, width & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions.

[Ⓢ] UL Listed to field change main breaker to higher AIC.
[Ⓣ] Price does not include fuses.

EUSERC Commercial Metering

Type BY Dimensions & Knockout Data

Figure 1

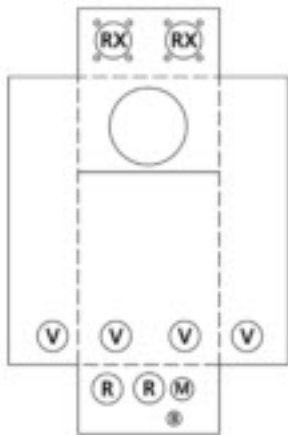


Figure 2

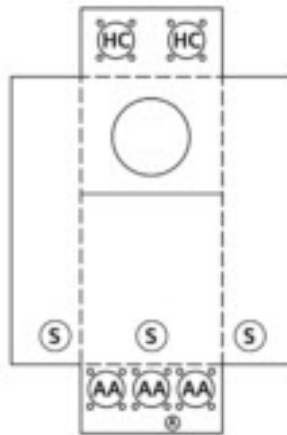


Figure 3

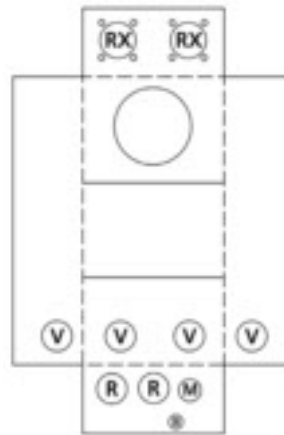


Figure 4

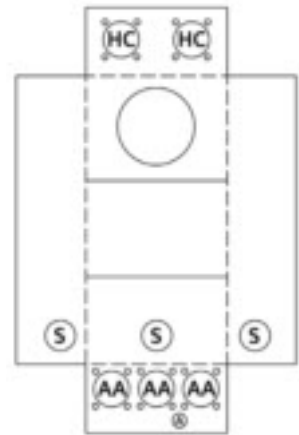


Figure 5

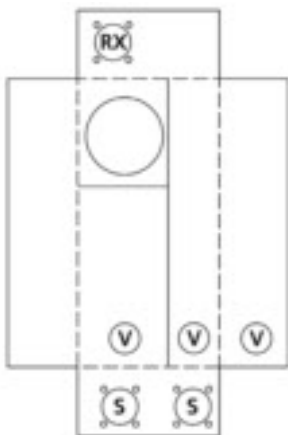


Figure 6

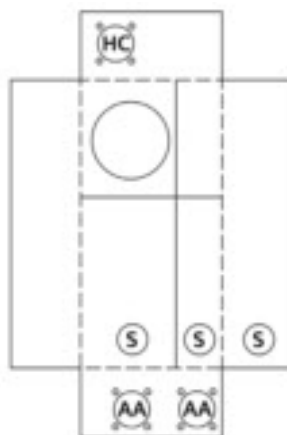


Figure 7

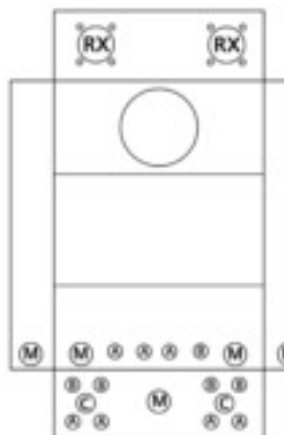
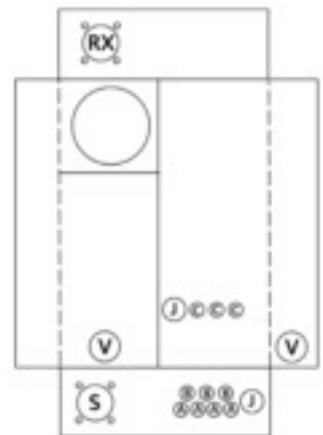


Figure 8

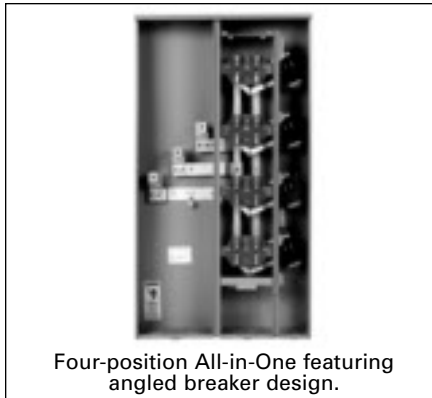


Knockout Code—Conduit Sizes

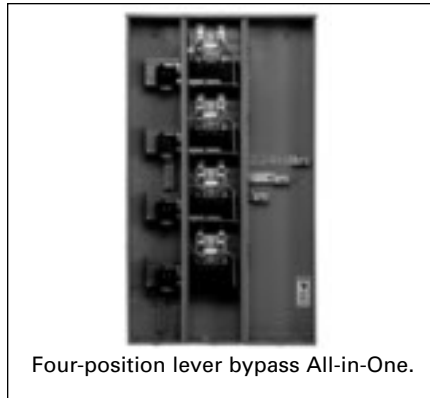
| | |
|-----------------------------|--------------------------------|
| ● = 3/8 | S = 1, 1 1/4, 1 1/2, 2, 2 1/2 |
| A = 1/2 | T = 1 1/4 |
| B = 5/8, 3/4 | U = 1 1/4, 1 1/2 |
| C = 1/2, 3/4, 1 | V = 1 1/4, 1 1/2, 2 |
| D = 1/2, 1 | W = 1 1/4, 2 |
| E = 1/2, 3/4, 1, 1 1/4 | X = 1 1/4, 1 1/2, 2, 2 1/2 |
| F = 1/2, 1 1/4, 1 1/2 | Y = 1 1/2, 2 |
| G = 3/4 | Z = 1 1/2, 2, 2 1/2 |
| H = 3/4, 1 | AA = 1 1/2, 2, 2 1/2, 3 |
| J = 3/4, 1, 1 1/4 | BB = 1 1/2, 2, 2 1/2, 3, 3 1/2 |
| K = 3/4, 1 1/4 | CC = 2, 2 1/2, 3, 3 1/2 |
| M = 3/4, 1, 1 1/4, 1 1/2 | EE = 2, 2 1/2, 3 |
| N = 3/4, 1, 1 1/4, 1 1/2, 2 | FF = 2 1/2, 3 |
| P = 1, 1 1/4 | GG = 2 1/2, 3, 3 1/2 |
| Q = 1, 1 1/4, 1 1/2 | HH = 2 1/2, 3, 3 1/2, 4 |
| R = 1, 1 1/4, 1 1/2, 2 | JJ = 3 1/2, 4 |
| | LL = 3 |
| | VV = 2 |

Meter Centers

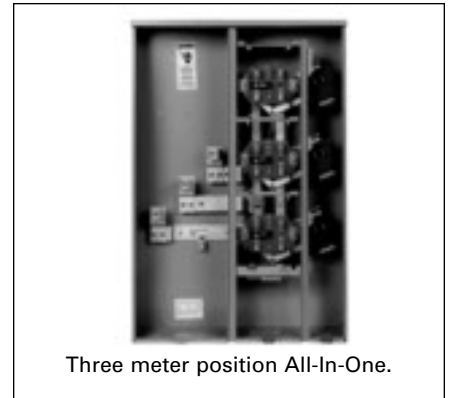
Uni-Pak Metering: Technical Information



Four-position All-in-One featuring angled breaker design.



Four-position lever bypass All-in-One.



Three meter position All-In-One.

General Information

Siemens' all new Uni-Pak Metering offers maximum flexibility and ease of installation to meet the service requirements of multiple position metering projects. The outdoor/indoor devices are available in two through six gang set-ups which consist of a pull section with main lugs or stud terminations, and 4/5 jaw meter sockets with tenant circuit breaker provisions.

The units operate on 120/240V AC 1Ø-3W systems and are available with either 125 or 200 ampere meter sockets to meet a wide variety of small apartment and commercial building applications. A fifth jaw accessory kit is available for use on 120/208YV AC 1Ø-3W network systems.

The attractive Uni-Pak devices accept overhead or underground service terminations and are designed for wall-hung surface or semi-flush mounting.

The devices are factory pre-bussed in a compact enclosure to ensure ease of handling and installation and to maximize wall-space efficiency.

In addition to local code and National Electrical Code requirements, the serving utility may have special requirements for metering devices. Confirm utility acceptance prior to order placement.

Design/Performance Features

- Siemens' exclusive 200 ampere/position non-lever bypass units feature angled breaker for faster & easier installations
- New Siemens' exclusive floating deadfront on 200 ampere devices eliminates need to line up breakers & covers
- UL Listed for Service Equipment
- UL Listed for use with 60/75°C wire
- UL Listed for short circuit ratings up to 100,000 RMS symmetrical amps at 240V AC
- Outdoor/indoor construction
- Overhead or underground service; load top, bottom or back
- Front accessible 4 or 5-jaw sockets with individual ring or ringless type meter covers
- 125 amp sockets feed plug-in tenant breakers through 125 amperes
- 200 amp sockets feed plug-in tenant breakers through 200 amps
- All unmetered bus is barriered and sealable to prevent unauthorized access
- Compact wall-hung design for ease of handling and installation
- Fifth jaw field installable at 3 or 9 o'clock
- NEW** Lever Bypass now available

- Electrodeposited paint provides uniform coverage for long-lasting protection and sharp appearance
- Meets EUSERC specifications when NEMA stud kit and flange kit (if required) are field-added (not available for lever bypass versions)

Technical Information

Uni-Pak devices are UL listed under file #E27100 as service entrance equipment.

Complete Selection

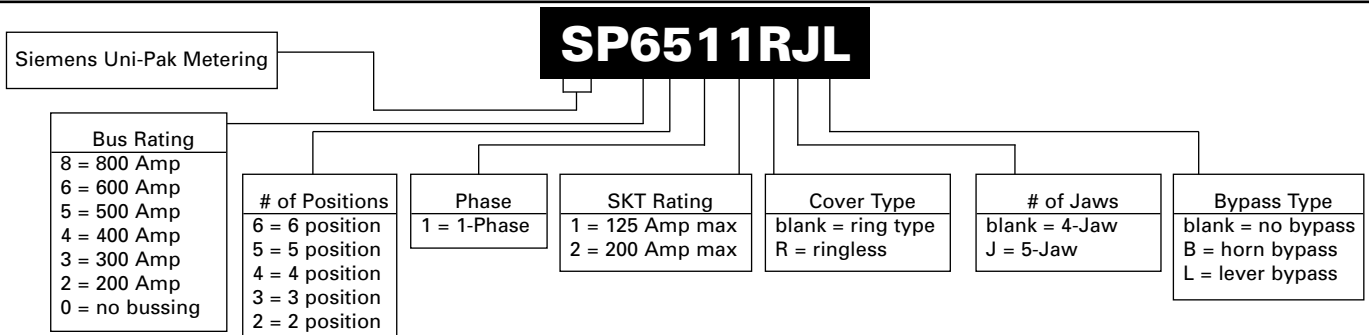
| | |
|------------------------------|---|
| Number of Meter Jaws | 4 or 5 |
| Voltage | 240V AC Maximum |
| Amperes (per Meter position) | 125 amp or 200 amp Maximum |
| Amperes (Bus) | 800 amps Maximum |
| Tenant Main Breakers | Provisions for plug-in tenant circuit breakers through 200A |
| Number of Meter Positions | 2, 3, 4, 5 or 6 |
| Service | Overhead or underground with load top, bottom or back |

Industry Specifications

All-In-One residential group metering units comply with the following industry standards.

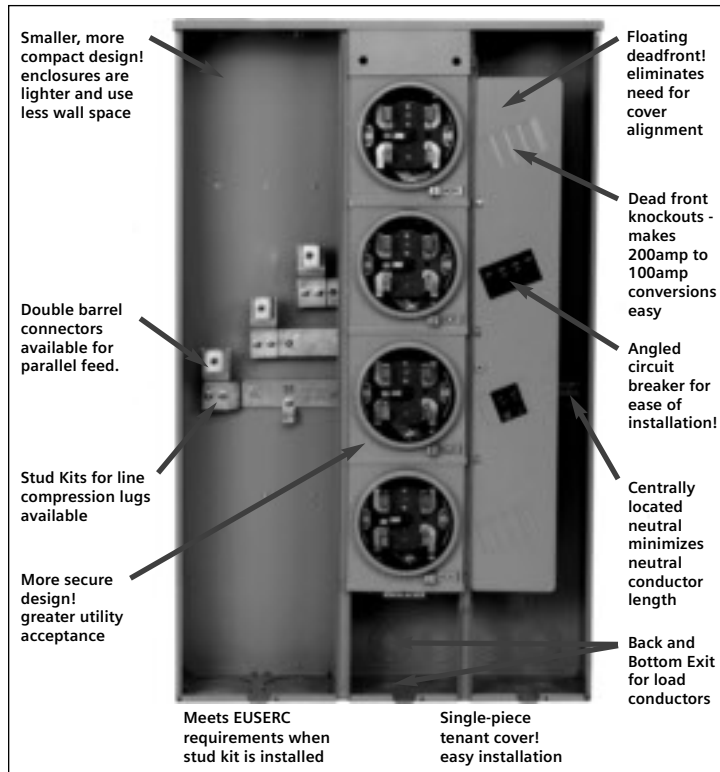
- ANSI — Standard #C 12.7-1987
- NEMA — Standard #250-1985
- UL — File #E27100
- UL — Standard #50, 67, 414

Catalog Number Logic



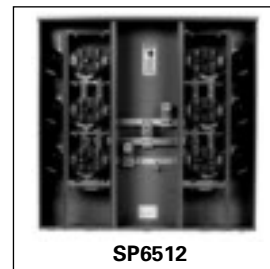
Meter Centers

Uni-Pak Metering: Selection-Ring Style



Features

- Individual split covers
- UL Listed for 60 / 75°C conductors. See equipment markings for applications
- For small apartment buildings, small professional and commercial buildings
- Completely self-contained meter centers
- Two to six 125A and 200A sockets breaker positions
- Outdoor surface mounted enclosures
- Compact, pre-bussed, easy to handle, hang and wire
- Barriered, sealable compartment for un-metered current-carrying parts
- Al/Cu lay-in lugs, except two socket units
- Top or bottom feed
- Bottom and rear branch wiring exits (Neutral and ground at bottom only)
- ANSI #61 light gray electrodeposited paint on zinc-coated G90 steel
- Meets EUSERC specifications when NEMA stud kit and flushing ring (if required) is field added



1-Phase, 3-Wire SN, Ring Type, Uni-Pak Meter Center

| Continuous Duty Amps Per Position | Bus Amperage | Meter Positions Per Pak | Catalog Number | Old Catalog Number | Breaker Provision | Maximum AIC | Dimensions ^① | | | 5th Jaw Assembly | Line Lugs Wire Range | List Price \$ |
|-----------------------------------|--------------|-------------------------|----------------|--------------------|-------------------|-------------|-------------------------|-------|-------|------------------|----------------------|---------------|
| | | | | | | | Height | Width | Depth | | | |

1-Phase, 4-Jaw Sockets, 120/240V AC Max.

| | | | | | | | | | | | | |
|-----|-----|---|---------------------|--------|---|---------|-------|-------|------|--------|---|---------|
| 125 | 200 | 2 | SP2211 | MP2211 | MP-T MP-HT MP-MT | 65,000 | 37.63 | 13.67 | 6.00 | ECMM5J | #6-300 kcmil | 1323.00 |
| | 300 | 3 | SP3311 | MP3311 | | 65,000 | 38.40 | 25.50 | 7.50 | ECMM5J | #6-300 kcmil | 1591.00 |
| | 400 | 4 | SP4411 | MP4411 | | 65,000 | 47.40 | 25.50 | 7.50 | ECMM5J | 1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU | 2260.00 |
| | 400 | 5 | SP4511 | MP4511 | | 65,000 | 38.40 | 39.20 | 7.50 | ECMM5J | | 2861.00 |
| | 400 | 6 | SP4611 | MP4611 | | 65,000 | 38.40 | 39.20 | 7.50 | ECMM5J | (2) #2-600 kcmil | 3315.00 |
| | 500 | 4 | SP5411 | MP5411 | | 65,000 | 47.40 | 31.50 | 7.50 | ECMM5J | | 2807.00 |
| | 600 | 5 | SP6511 | MP6511 | | 65,000 | 38.40 | 45.20 | 7.50 | ECMM5J | 3235.00 | |
| | 600 | 6 | SP6611 | MP6611 | | 65,000 | 38.40 | 45.20 | 7.50 | ECMM5J | 3877.00 | |
| 200 | 400 | 2 | SP4212 | MP4212 | MP-T MP-HT MP-MT MPP-T MPP-HT MPP-MT MPP-PT | 100,000 | 31.50 | 29.50 | 7.50 | ECMM5J | 1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU | 1863.00 |
| | 400 | 3 | SP4312 | MP4312 | | 100,000 | 38.44 | 29.50 | 7.50 | ECMM5J | | 2755.00 |
| | 400 | 4 | SP4412 | MP4412 | | 100,000 | 47.44 | 29.50 | 7.50 | ECMM5J | (2) #2-600 kcmil | 3612.00 |
| | 600 | 4 | SP6412 | MP6412 | | 100,000 | 47.44 | 35.50 | 7.50 | ECMM5J | | 3983.00 |
| | 600 | 5 | SP6512 | MP6512 | | 100,000 | 38.44 | 53.10 | 7.50 | ECMM5J | 4655.00 | |
| | 600 | 6 | SP6612 | MP6612 | | 100,000 | 38.44 | 53.10 | 7.50 | ECMM5J | 5460.00 | |
| | 800 | 6 | SP8612 ^② | — | | 100,000 | 38.44 | 53.10 | 7.50 | ECMM5J | 5991.00 | |

| Flushing Rail Kits: | Description | List Price \$ |
|---------------------|-------------|---------------|
|---------------------|-------------|---------------|

125 Amps per position

| | | |
|----------|----------------------|--------|
| SP221FK | 2 Gang 200 amp bus | 132.00 |
| SP331FK | 3 Gang 300 amp bus | 154.00 |
| SP441FK | 4 Gang 400 amp bus | 154.00 |
| SP4561FK | 5&6 Gang 400 amp bus | 154.00 |
| SP6561FK | 5&6 Gang 600 amp bus | 154.00 |

200 Amps per position

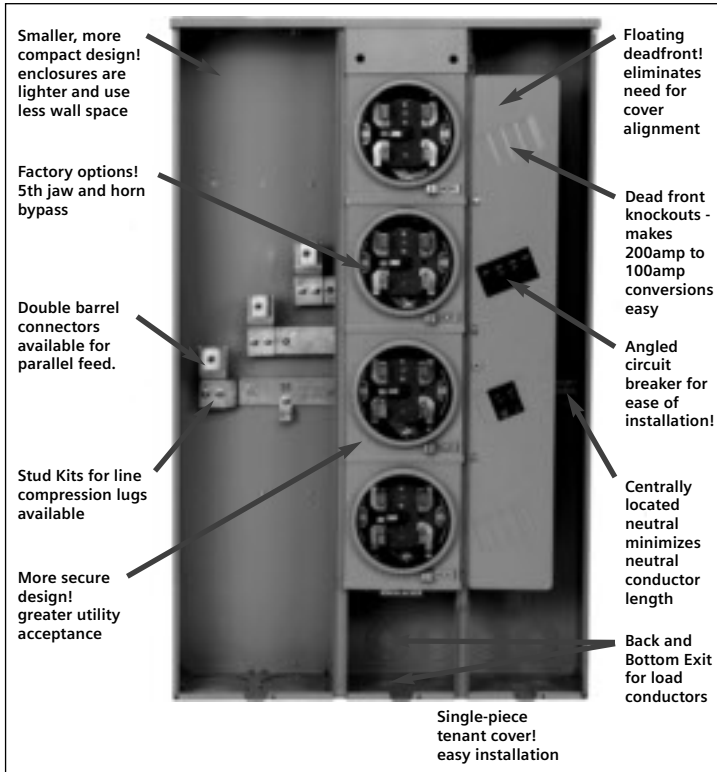
| | | |
|----------|----------------------|--------|
| SP422FK | 2 Gang 400 amp bus | 154.00 |
| SP432FK | 3 Gang 400 amp bus | 154.00 |
| SP442FK | 4 Gang 400 amp bus | 154.00 |
| SP642FK | 4 Gang 600 amp bus | 154.00 |
| SP6562FK | 5&6 Gang 600 amp bus | 154.00 |

① Dimensions shown are representative of outside box length, width, & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions.

② Order NSK600 stud kit for use with 800A device. Copper cable only.

Meter Centers

Uni-Pak Metering: Selection-Ringless Style^③



Features

- Ringless meter construction
- Individual split covers with barrel lock compatibility
- Available with horn bypass factory installed
- UL Listed for 60/75°C conductors See equipment markings for applications
- For small apartment buildings, small professional and commercial buildings
- Completely self-contained meter centers
- Two to six 125A and 200A sockets breaker positions
- Compact, pre-bussed, easy to handle, hang and wire
- Barriered, sealable compartment for unmetered current-carrying parts
- Al/Cu lay-in lugs, except two socket units
- Top or bottom feed
- Bottom and rear branch wiring exits (Neutral and ground at bottom only)
- ANSI #61 light grey electrodeposited paint on zinc-coated steel
- 5th jaw kit included with each unit



1-Phase, 3-Wire SN, Ringless Type, Uni-Pak Meter Center - No Bypass & Horn Bypass

| Continuous Duty Amps Per Position | Bus Amperage | Meter Positions Per Pak | Catalog Number | Old Catalog Number | Breaker Provision | Maximum AIC | Dimensions ^① | | | 5th Jaw Assembly ^② | Horn Bypass Kit | Line Lugs Wire Range | List Price \$ |
|-----------------------------------|--------------|-------------------------|----------------|--------------------|-------------------|-------------|-------------------------|-------|-------|-------------------------------|-----------------|----------------------|---------------|
| | | | | | | | Height | Width | Depth | | | | |

1-Phase, 5-Jaw Sockets, 120/240V AC Max.

| | | | | | | | | | | | | | | |
|-----|-----|---|-----------------------|-----------|--|---------|-------|-------|------|----------|-----------|--------------|---|---------|
| 125 | 200 | 2 | SP2211RJ | MP2211RJ | MP-T MP-HT MP-MT | 65,000 | 37.50 | 13.50 | 6.00 | Included | ECHBK | #6-300 kcmil | 1429.00 | |
| | 200 | 2 | SP2211RJB | MP2211RJB | | 65,000 | 37.50 | 13.50 | 6.00 | Included | Installed | | #6-300 kcmil | 1428.00 |
| | 300 | 3 | SP3311RJ | MP3311RJ | | 65,000 | 37.50 | 25.50 | 7.50 | Included | ECHBK | | #2-600 kcmil | 1782.00 |
| | 300 | 3 | SP3311RJB | MP3311RJB | | 65,000 | 37.50 | 25.50 | 7.50 | Included | Installed | | #2-600 kcmil | 1701.00 |
| | 400 | 4 | SP4411RJ | MP4411RJ | | 65,000 | 37.50 | 25.50 | 7.50 | Included | ECHBK | | | 2501.00 |
| | 400 | 4 | SP4411RJB | MP4411RJB | | 65,000 | 37.50 | 25.50 | 7.50 | Included | Installed | | | 2501.00 |
| | 400 | 5 | SP4511RJ | MP4511RJ | | 65,000 | 37.50 | 39.20 | 7.50 | Included | ECHBK | | 1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU | 3129.00 |
| | 400 | 5 | SP4511RJB | MP4511RJB | | 65,000 | 37.50 | 39.20 | 7.50 | Included | Installed | | | 3129.00 |
| | 400 | 6 | SP4611RJ | MP4611RJ | | 65,000 | 37.50 | 39.20 | 7.50 | Included | ECHBK | | | 3666.00 |
| | 400 | 6 | SP4611RJB | MP4611RJB | | 65,000 | 37.50 | 39.20 | 7.50 | Included | Installed | | | 3506.00 |
| | 600 | 5 | SP6511RJ | MP6511RJ | | 65,000 | 37.50 | 45.20 | 7.50 | Included | ECHBK | | | 3557.00 |
| | 600 | 5 | SP6511RJB | MP6511RJB | | 65,000 | 37.50 | 45.20 | 7.50 | Included | Installed | | (2) #2-600 kcmil | 3557.00 |
| | 600 | 6 | SP6611RJ | MP6611RJ | | 65,000 | 37.50 | 45.20 | 7.50 | Included | ECHBK | | | 4204.00 |
| | 600 | 6 | SP6611RJB | MP6611RJB | | 65,000 | 37.50 | 45.20 | 7.50 | Included | Installed | | | 4040.00 |
| 200 | 400 | 2 | SP4212RJ | MP4212RJ | MP-T MP-HT MP-MT MPP-T MPP-HT MPP-MT MPP-PT ^② | 100,000 | 31.50 | 29.50 | 7.50 | Included | ECHBK | | | 1997.00 |
| | 400 | 2 | SP4212RJB | MP4212RJB | | 100,000 | 31.50 | 29.50 | 7.50 | Included | Installed | | | 1940.00 |
| | 400 | 3 | SP4312RJ | MP4312RJ | | 100,000 | 38.44 | 29.50 | 7.50 | Included | ECHBK | | 1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU | 2943.00 |
| | 400 | 3 | SP4312RJB | MP4312RJB | | 100,000 | 38.44 | 29.50 | 7.50 | Included | Installed | | | 2861.00 |
| | 400 | 4 | SP4412RJ | MP4412RJ | | 100,000 | 47.44 | 29.50 | 7.50 | Included | ECHBK | | | 3822.00 |
| | 400 | 4 | SP4412RJB | MP4412RJB | | 100,000 | 47.44 | 29.50 | 7.50 | Included | Installed | | | 3692.00 |
| | 600 | 5 | SP6512RJ | MP6512RJ | | 100,000 | 38.44 | 53.10 | 7.50 | Included | ECHBK | | | 4789.00 |
| | 600 | 5 | SP6512RJB | MP6512RJB | | 100,000 | 38.44 | 53.10 | 7.50 | Included | Installed | | | 4655.00 |
| | 600 | 6 | SP6612RJ | MP6612RJ | | 100,000 | 38.44 | 53.10 | 7.50 | Included | ECHBK | | (2) #2-600 kcmil | 5645.00 |
| | 600 | 6 | SP6612RJB | MP6612RJB | | 100,000 | 38.44 | 53.10 | 7.50 | Included | Installed | | | 5458.00 |
| | 800 | 6 | SP8612RJ ^③ | — | | 100,000 | 38.44 | 53.10 | 7.50 | Included | ECHBK | | | 5991.00 |

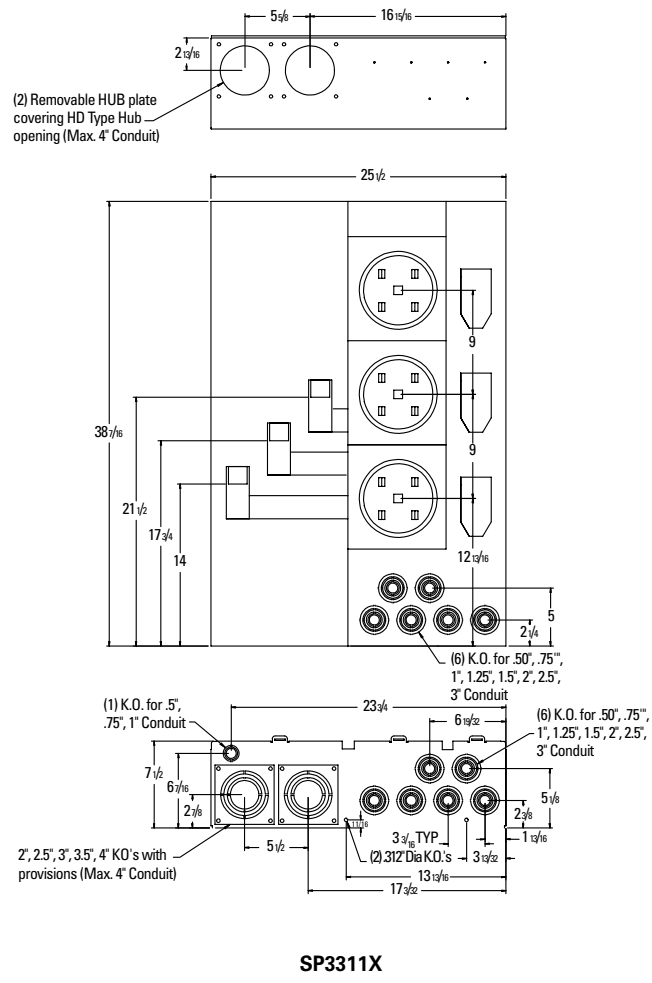
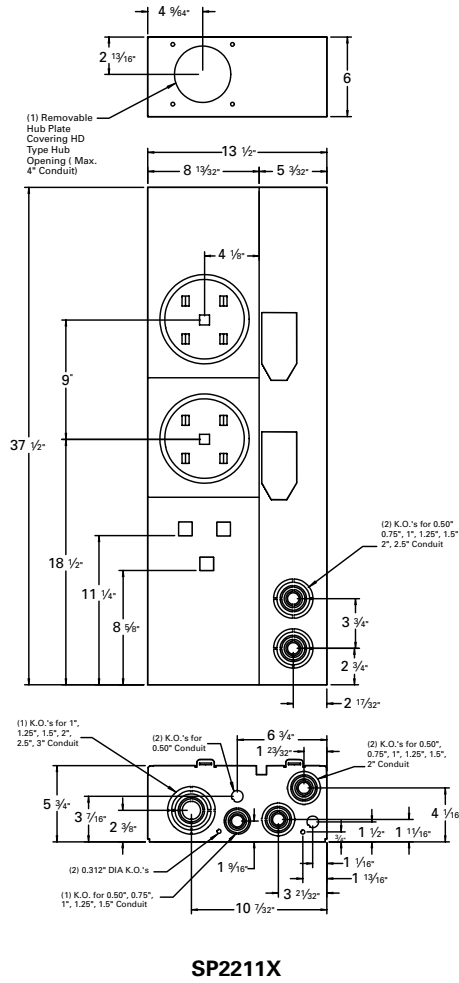
① Dimensions shown are representative of outside box length, width, & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions.

② Order ECMI5J for insulated 5th jaw. Fifth terminal for RJ devices is included, but not installed.

③ Order NSK600 stud kit for use with 800A device. Copper Cable only.

Meter Centers

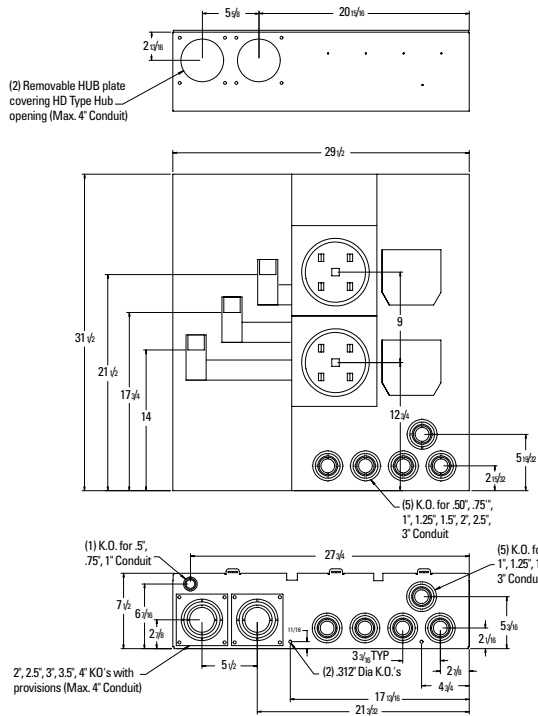
Uni-Pak Metering: Wiring, Dimensional, & Knockout Diagrams



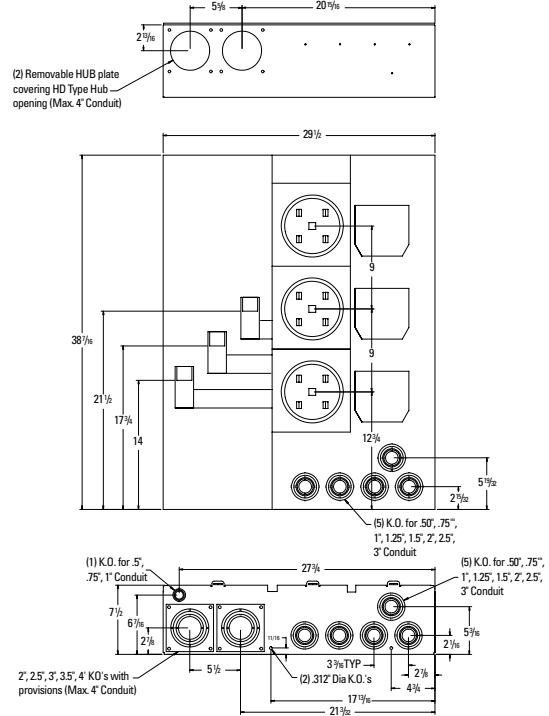
Meter Centers

Uni-Pak Metering: Wiring, Dimensional, & Knockout Diagrams

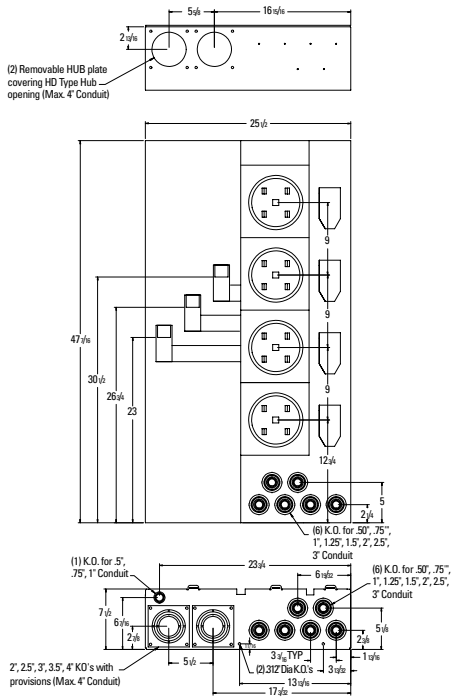
3
METERING



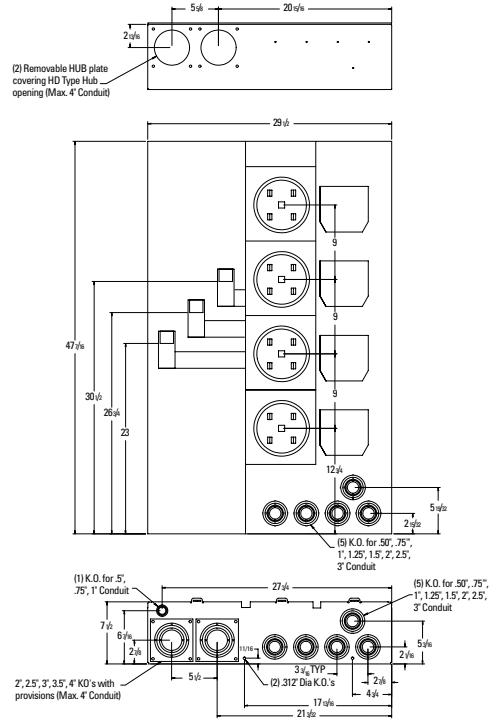
SP4212R/RJ/RJB



SP4312R/RJ/RJB



SP4411X

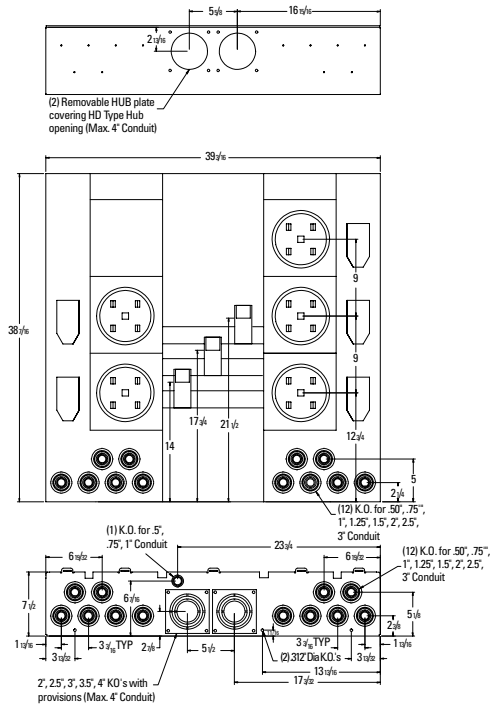


SP4412R/RJ/RJB

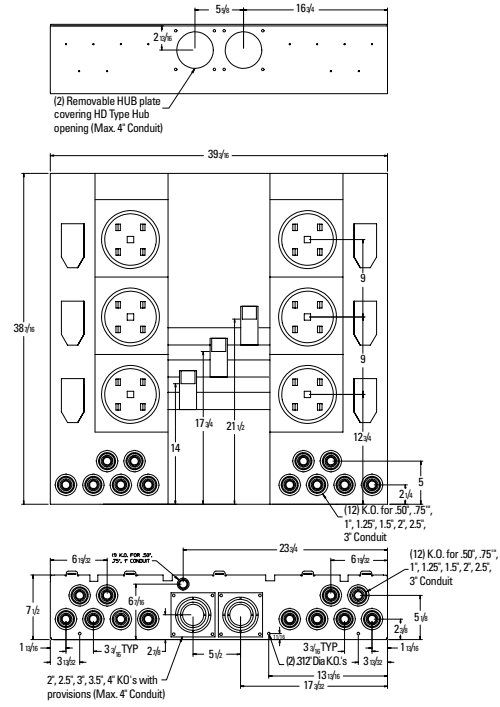
Group Metering

Meter Centers

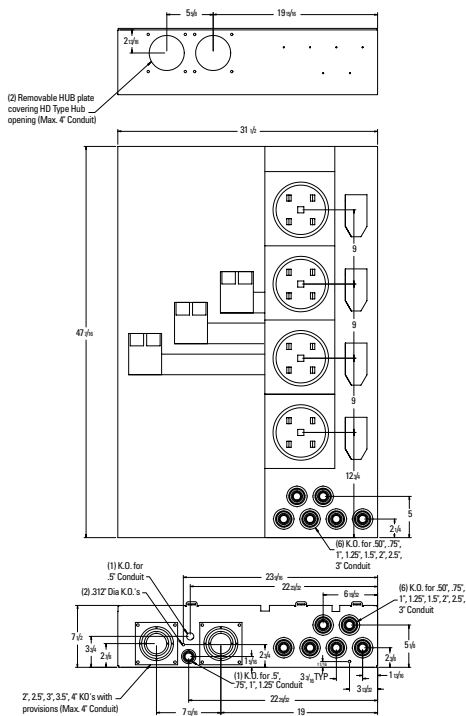
Uni-Pak Metering: Wiring, Dimensional, & Knockout Diagrams



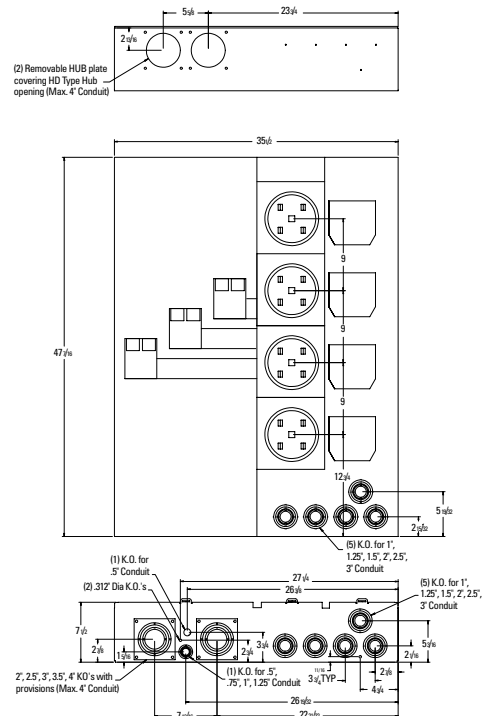
SP4511X



SP4611X



SP5411X

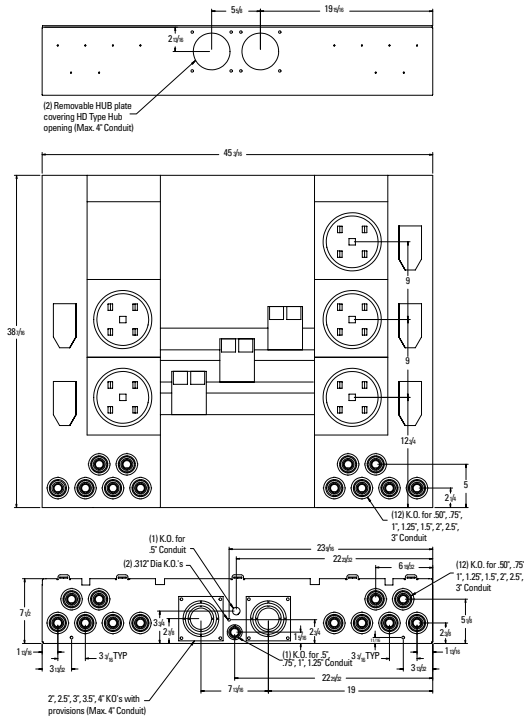


SP6412R/RJ/RJB

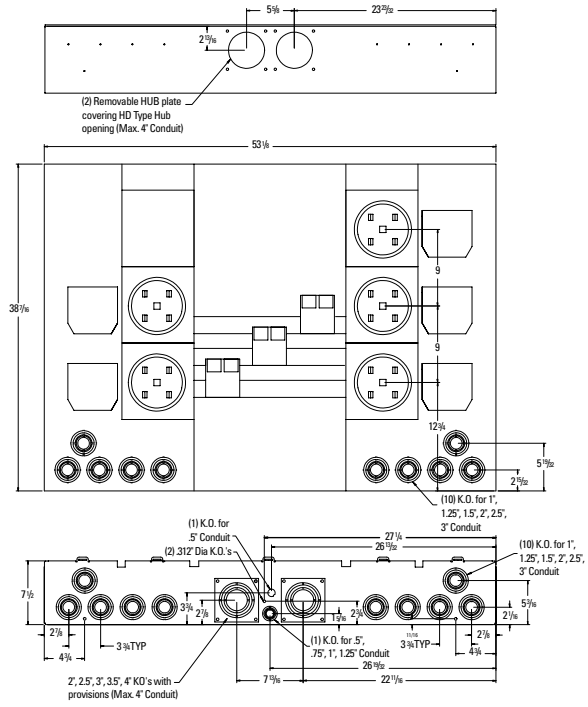
Meter Centers

Uni-Pak Metering: Wiring, Dimensional, & Knockout Diagrams

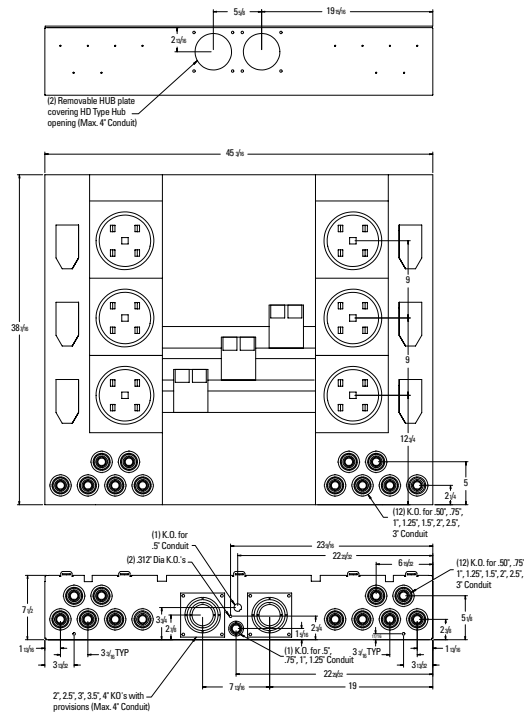
3
METERING



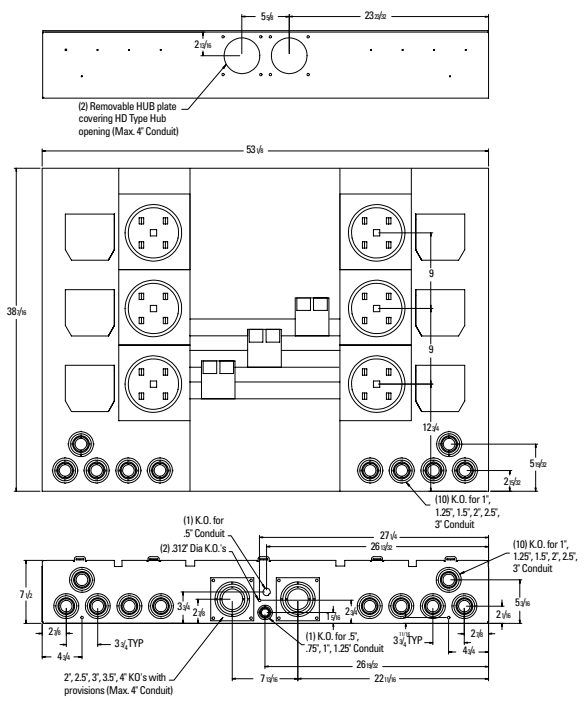
SP6511X



SP6512R/RJ/RJB



SP6611X

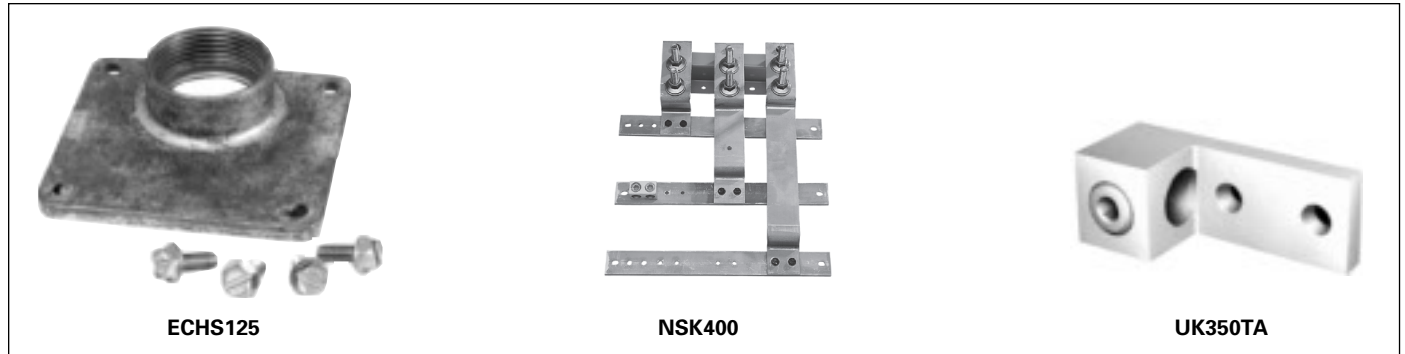


**SP6612R/RJ/RJB
SP8612R/RJ/RJB**

Group Metering

Meter Centers

Uni-Pak Metering: Accessories



ECHS125

NSK400

UK350TA

Accessories for All-In-One Units

| Description | Catalog Number | List Price \$ |
|-------------|----------------|---------------|
|-------------|----------------|---------------|

5th Jaw Kit^①

| | | | |
|-----------|-----------|---------|-------|
| All Types | Grounded | ECMM5J | 25.00 |
| | Insulated | ECMMI5J | 22.00 |

Bypass Kits^①

| | | |
|-----------------|-------|--------|
| Horn Bypass Kit | ECHBK | 159.00 |
|-----------------|-------|--------|

Cover Plate

| | | |
|-------------------------|------|-------|
| Ring Style ^② | ECPP | 20.00 |
| Ringless Style | ECP3 | 20.00 |

Sealing Rings

| | | |
|---|------|-------|
| Snap-On Type Aluminum | SRSS | 19.38 |
| Screw Type Stainless Steel ^③ | SRSW | 25.03 |

Filler Plates

| | | |
|-----------------|-------|-------|
| 1" Filler Plate | ECQF3 | 15.10 |
|-----------------|-------|-------|

NEMA Stud Kits (Meets EUSERC Requirements)^①

| | | |
|---------------------------|---------------------|--------|
| 400 Amp Bus NEMA Stud Kit | NSK400 | 167.00 |
| 600 Amp Bus NEMA Stud Kit | NSK600 ^② | 220.00 |

| Description | Catalog Number | List Price \$ |
|-------------|----------------|---------------|
|-------------|----------------|---------------|

Lugs for NEMA Stud Kits^①

| | | |
|---------------------|----------|-------|
| (2) #6-350 kcmil | UK350TA | 59.00 |
| (1) #2-600 kcmil | UK600TA | 53.00 |
| (2) #500-1000 kcmil | UK1000TA | 68.00 |

Alternate Lug Kits^①

| | | |
|----------------------------|---------------------|--------|
| 400 Amp Bus Lug Kit #6-250 | PLK400 | 195.00 |
| 600 Amp Bus Lug Kit #6-250 | PLK600 ^② | 195.00 |

Type "HD" Conduit Hubs

| | | |
|-----------------|----------|--------|
| 2" Conduit Hub | EC56854 | 178.92 |
| 2½" Conduit Hub | EC56855 | 178.92 |
| 3" Conduit Hub | EC56856 | 178.92 |
| 3½" Conduit Hub | EC56857 | 263.06 |
| 4" Conduit Hub | EC56858 | 119.28 |
| Closure Plate | EC56933S | 76.68 |

Type "RX" Conduit Hubs

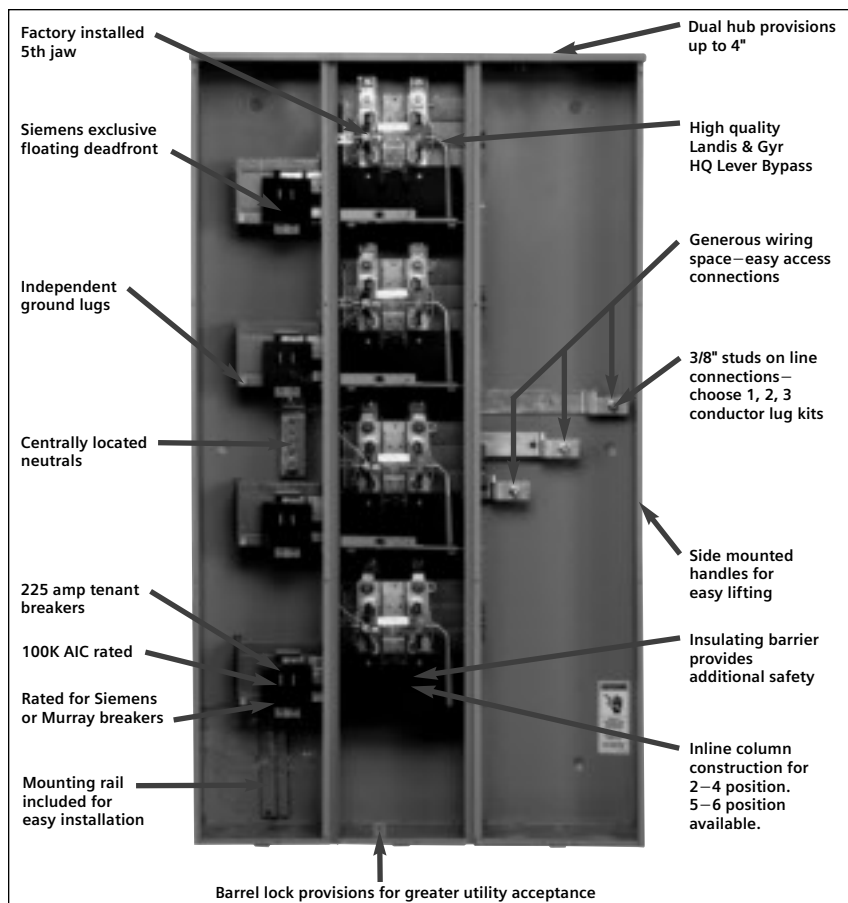
| | | |
|-------------------------------------|-------------|--------|
| ¾" Conduit Hub | EC38594 | 22.90 |
| 1" Conduit Hub | EC38596 | 37.81 |
| 1¼" Conduit Hub | EC38597 | 37.81 |
| 1½" Conduit Hub | EC38598 | 23.96 |
| 2" Conduit Hub | EC38599 | 23.96 |
| 2½" Conduit Hub | EC38600 | 107.57 |
| Closure Plate | EC38595 | 38.34 |
| HD to RX Adapter plate ^③ | EC9747-1113 | 28.76 |

① Not for use on lever bypass units.

② PLK600 and NSK600 can be used with 800A PAK with copper cables only.

③ Adapter plate converts HD mounting to RX.

Uni-Pak Metering: Ringless Style with Lever Bypass



The newly designed line of PAK metering from Siemens is now available for those utilities that require a lever bypass for residential & commercial applications. PAK Metering provides an all-in-one solution for applications needing from 2–6 meter positions. The products are designed for easy installation and include features not found on competitors, including:

- Side mounted handles to help in lifting
- "Floating" deadfront to help breaker alignment
- Provisions for one, two, or three incoming conductors per phase and neutral
- Hanging bracket to suspend the unit during installation
- 225 amp branch tenant provisions @ 100,000 AIC
- Full line of 2–6 position devices
- "In-line" (column) construction for 2–4 position devices

Siemens PAK metering has passed rigorous testing and has been accepted by many of those utilities that require a lever bypass.

Note: KO diagrams located on page 3-51.

| Continuous Duty Amps Per Position | Maximum Tenant Breaker | Bus Amperage | Meter Positions Per Pak | Catalog [®] Number | List Price \$ | Breaker Provision | Maximum AIC | Dimensions (inches) ^① | | | 5th Jaw @ 9:00 | Line Lugs ^② |
|--|------------------------|--------------|-------------------------|-----------------------------|---------------|-------------------|-------------|----------------------------------|-------|-------|----------------|------------------------|
| | | | | | | | | Height | Width | Depth | | |
| 1-Phase 5-Jaw sockets, 120/240V AC Max. | | | | | | | | | | | | |
| 200 | 225 | 400 | 2 | SP4212RJL | 3274.00 | MP-T, MP-HT, | 100,000 | 36.75 | 35.90 | 9.00 | Installed | 3/8" |
| | | | 3 | SP4312RJL | 4911.00 | MP-MT, MP-T, | 100,000 | 49.75 | 35.90 | 9.00 | Installed | Stud |
| | | | 4 | SP4412RJL | 6548.00 | MPP-T, MPP-HT, | 100,000 | 62.75 | 35.90 | 9.00 | Installed | Field |
| | | 600 | 5 | SP6512RJL | 8185.00 | MPP-MT, | 100,000 | 49.75 | 57.68 | 9.00 | Installed | Installed |
| | | | 6 | SP6612RJL | 9652.00 | MPP-PT | 100,000 | 49.75 | 57.68 | 9.00 | Installed | Lugs |

① Dimensions shown are representative of outside box length, width, and depth and do not include allowances for mounting bumps, endwalls, covers, hubs, or hardware protrusions.

② Line lugs are not included. Please order lugs from chart below.

③ A barrel lock provision is included with each metered position.

Lug Kits

| Lug Catalog Number | Wire Range | List Price \$ |
|--------------------|--|---------------|
| H56476 | 3/0-800/94 kcmil | 46.86 |
| H60162 | (2) 1/0-250 kcmil OR (1) #4-600 kcmil | 46.86 |
| H68752-1 | (3) #6-250 kcmil | 78.81 |
| H56732-2 | (2) #4-350 kcmil | 37.28 |
| H56732-M | (2) #4-500 kcmil | 56.00 |

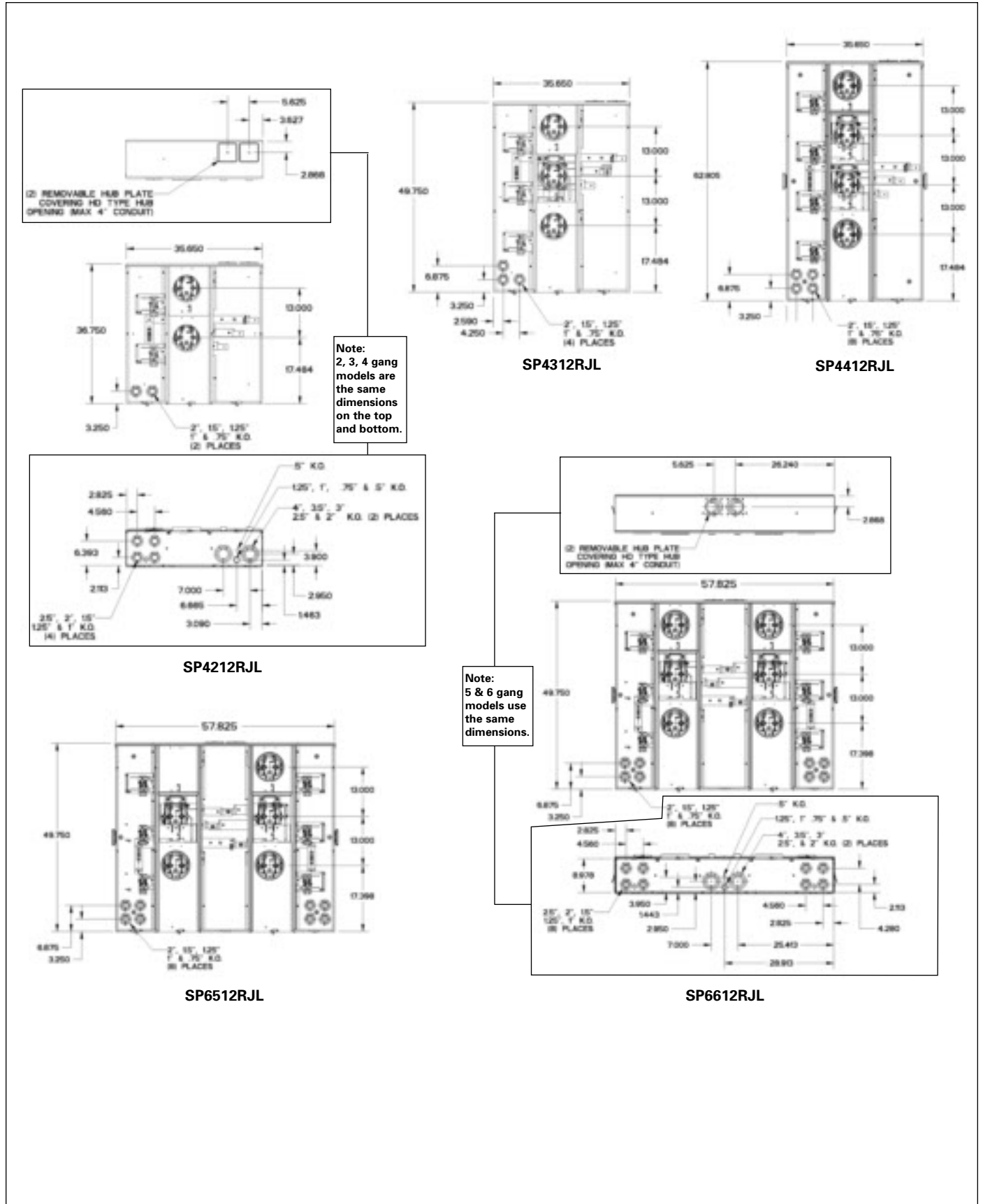
Note: Lug kits should be chosen based on the wire size being run to the unit. Wire should be sized according to the National Electrical Code. A total of 3 lugs are required to wire the line side of the device.

Hub Kits

| Size (inches) | Catalog Number | List Price \$ |
|---------------|----------------|---------------|
| 2 | EC56854 | 178.92 |
| 2.5 | EC56855 | 178.92 |
| 3 | EC56856 | 178.92 |
| 3.5 | EC56857 | 263.06 |
| 4 | EC56858 | 119.28 |
| Closure Plate | EC56933S | 76.68 |

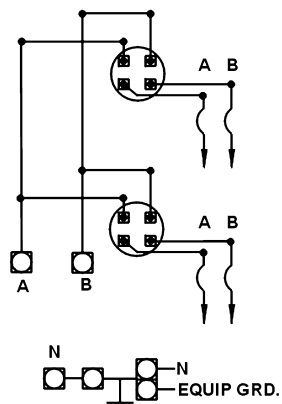
Meter Centers

Uni-Pak Metering: Lever Bypass - Wiring, Dimensional, & Knockout Diagrams

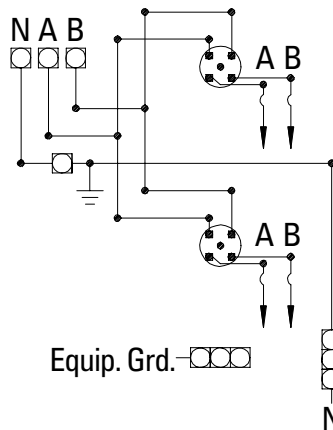


Group Metering: All-in-One Units

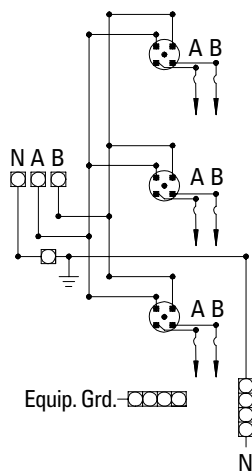
All-in-One Units: Wiring Diagrams



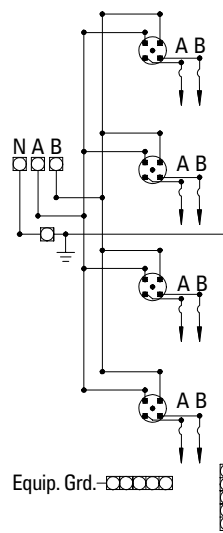
Neutral is permanently bonded to enclosure
2 position 125 Amp



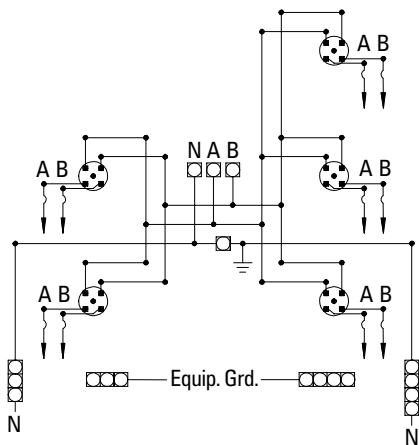
2 position 200 Amp



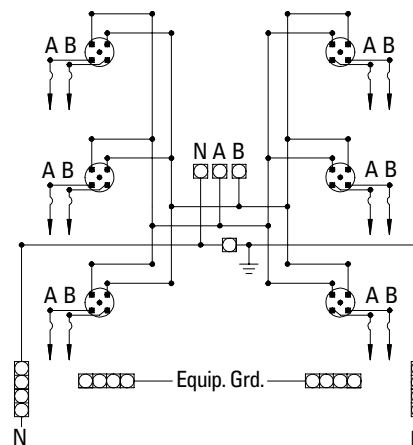
3 position 125 & 200 Amp



4 position 125 & 200 Amp



5 position 125 & 200 Amp



6 position 125 & 200 Amp

Meter Centers

Modular Metering: Common Series Rating Charts

Use the tables below to determine the correct combination of equipment and circuit breakers for the available fault current. This chart provides series rating information for the most common applications. For a complete series rating chart please contact your local sales office.

Residential / Commercial^①

| Available Fault Current RMS Symmetrical Amps at 120/240 Volts Maximum | Service Entrance ^② Modules | Metering Branch Circuit Breakers | Load Center Branch Circuit Breakers |
|---|---------------------------------------|--------------------------------------|-------------------------------------|
| to 10,000 | Series WMPOU WMSU WMC | MP-T (15—125A) MPP-T (125—200A) | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-T (15—125A) MPP-T (125—200A) | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| to 22,000 | Series WMSU WMC | MP-HT (15—125A) MPP-HT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-HT (15—125A) MPP-HT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| to 42,000 | Series WMSU ^① WMC | MP-HT (15—125A) MPP-MT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-MT (15—125A) MPP-MT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| to 65,000 | Series WMSU WMC | MP-HT (15—125A) MPP-MT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-MT (15—125A) MPP-MT (125—200A) | MP-T, MH-T, MP-GT, MP-ET |
| to 100,000 | Series WMSU | MPP-PT (100—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MPP-PT (100—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |

Commercial

| Available Fault Current RMS Symmetrical Amps at 120/240 Volts Maximum 1-phase, 240 Volts Maximum 3-phase | Service Entrance ^② Modules | Metering Branch Circuit Breakers | Load Center Branch Circuit Breakers |
|--|---------------------------------------|--|-------------------------------------|
| to 10,000 | Series WMPOU WMSU WMC | MP-T (15—125A) 2-pole (15—100A) 3-pole MPP-T (125—200A) 2-pole | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| | | QJ2 (60—200A) 3-pole | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-T (15—125A) 2-pole (15—100A) 3-pole MPP-T (125—200A) 2-pole | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| | | QJ2 (60—200A) 3-pole | MP-T, QPJ, MH-T, MP-GT, MP-ET |
| to 22,000 | Series WMSU WMC | MP-HT (15—125A) 2-pole (15—100A) 3-pole MPP-HT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | QJH2 (60—200A) 3-pole | MP-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-HT (15—125A) 2-pole (15—100A) 3-pole MPP-HT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | QJH2 (60—200A) 3-pole | MP-T, MP-GT, MP-ET |
| to 42,000 | Series WMSU WMC | MP-HT (15—125A) 2-pole (15—100A) 3-pole MPP-MT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | QJ2-H (60—200A) 3-pole | MP-T |
| | WMTBU ^④ | MP-MT (15—125A) 2-pole (15—100A) 3-pole MPP-MT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | QJ2-H (60—200A) 3-pole | MP-T |
| to 65,000 | Series WMSU WMC | MP-HT (15—125A) 2-pole (15—100A) 3-pole MPP-MT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | HQJ2H | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MP-MT (15—125A) 2-pole (15—100A) 3-pole MPP-MT (125—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | HQJ2H | MP-T, MH-T, MP-GT, MP-ET |
| to 100,000 | Series WMSU | MPP-PT (100—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | HQJ2H | MP-T, MH-T, MP-GT, MP-ET |
| | WMTBU ^④ | MPP-PT (100—200A) 2-pole | MP-T, MH-T, MP-GT, MP-ET |
| | | HQJ2H | MP-T, MH-T, MP-GT, MP-ET |

① This chart is applicable only with residential unified meter modules. (Siemens/Murray sockets, 1-phase outgoing) on pages 3-60 thru 3-61.

② WMSU fusible switch modules use Class T fuses only. WMPOU pullouts also use Class T fuses.

③ Service entrance modules may not have suffix U in number.

④ No overcurrent protection.

Listed by Underwriters' Laboratories, Inc., under file #E10848(N).

Meter Centers

Modular Metering: Introduction

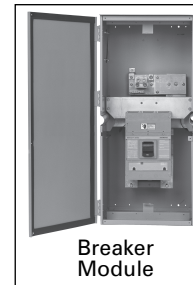
Siemens Modular Metering can be adapted to almost every requirement in residential and commercial group metering applications. The design of each module was completed with easy handling, fast installation, and simplified layout in mind.

The complete line can be furnished for single phase three wire 120/240V AC and three phase, four wire 120/Y208V AC. Meter modules containing three phase thru bussing and three phase tenant mains are also rated for 240V AC Delta Systems. All service entrance devices are rated for 240V AC Max.

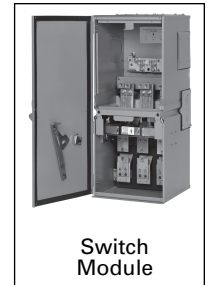
The incoming utility service can be terminated in breaker, switch, or tap box "service entrance modules". Tap boxes may be used when the total number of meters is 6 or less. For those areas that need to meet EUSERC requirements for underground feed a separate pullbox is available to attach to breaker devices up to 1200amps. Switch devices with an integral pullbox are available up to 800amps.

All 200amp meter modules offer short circuit ratings up to 100,000A IR. Modules are available to meet the wide variety of bypass requirements from utilities nationwide including horn bypass, lever bypass, and test block bypass. Residential modules (those with no bypass or horn bypass) are available in 2-6 positions. Commercial modules with a lever bypass are available in 1-4 positions. Commercial modules with a test block bypass are available in 1-3 positions.

All 320amp meter modules offer short circuit ratings up to 42,000A IR if fully rated. Higher ratings may be achieved thru series ratings and are dependent upon the breaker used as the service disconnect.



Breaker Module



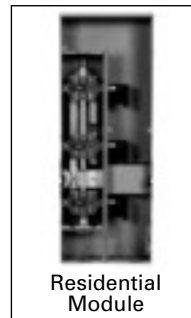
Switch Module



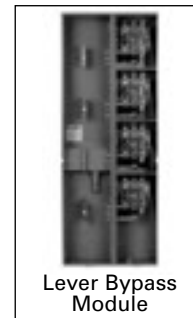
Pull Box Module



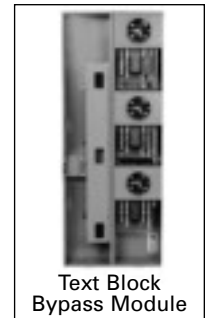
Tap Box Module



Residential Module



Lever Bypass Module



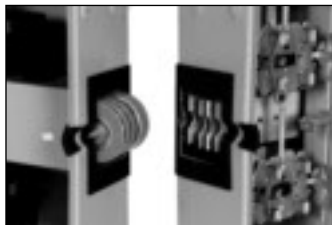
Text Block Bypass Module

3 METERING

Features

Single Bolt Joint

The time-saving single bolt joint (SBJ) provides for a single electrical connection between meter modules- a Siemens exclusive feature. The SBJ slips into one module with the adjacent unit being drawn towards it. The SBJ locks into place via a bracket on the back of each module- this keeps the SBJ stationary and is the primary means of grounding between modules.



Beveled edges on the SBJ allow for easy positioning of the joint. Field installed studs are located just above and below the SBJ opening to compress the surrounding gaskets together to form a water-tight seal. For extra stability

additional nuts and bolts are included as a means of physically joining the meter stacks together both above and below the SBJ opening.

Bus Construction



Un-metered bus is surrounded by a barrier and all in-accessible bus connections are welded for maximum strength. All other connections- single bolt joint and meter socket connections, are bolted and accessible.

Neutral & Ground Provisions



Grounds and Neutrals are located on the bottom end of the meter modules. All grounds and neutrals may be re-located to the top of the enclosure if a top-exit is needed (A siemens exclusive feature). Each meter module has small indents to help locate a field-cut knockout if a top exit is preferred.

Tenant Breaker Provisions



Each single phase 200amp meter socket has a provision for a 4-pole plug-in type MPP circuit breaker. A 2-pole plug-in 125amp max may be used in these positions with the use of a filler plate. No other conversion kits are necessary for this transition. Each single phase 125amp meter socket has a provision for a 2-pole plug-in type MP circuit breaker. Each breaker is adjacent to each meter position. Generous gutter space allows for wiring from top, bottom, or back of the meter module. Each meter cover is embossed to provide a location for the unit (apartment) number.

Group Metering

Meter Centers

Modular Metering: Selection Information

1 Pullbox w/ Landing Lugs

2 Main Device

3 Spacer[ⓐ]

4 Meter Stack

5 Meter Stack

6 Tap Box

1

2

3

4

5

6

A single bolt joint is required to connect all thru bussing. The application above requires (4) SBJ's, one between each bussed module. Two SBJ's would be included (one with each meter stack) and two would have to be purchased for the load side tap box and one for the spacer module to main breaker connection.

Selection Information

- ① Pullboxes have provisions to field install lugs to accept incoming and outgoing conductors. The modules should be used for underground service feeds when inspecting authorities require the service to be split or used in conjunction with a circuit breaker module when a EUSERC specification for underground feed is needed. Pullboxes are not meant for stand-alone use- they must be used with a service entrance breaker module.
- ② Most breaker and switch devices accept incoming feeds from the top or bottom. 400-800amp switches are invertible for top or bottom feed. 1200amp switches utilize a molded case switch (looks like a breaker) and are bottom feed only. Breaker modules are available in separate top and bottom feed versions. A "BF" suffix on a breaker module catalog number designates bottom feed. Tap boxes may be used as a main when 6 or less meter positions are present. Tap boxes offer a direct connection to the thru bus with no overcurrent protection. Tap boxes are not

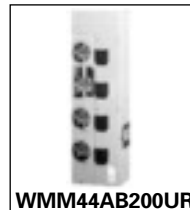


intended to feed breaker or switch modules via the thru bus. Breaker, switch, and tap box modules do not come with a single bolt joint.

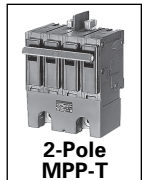
- ③ A spacer is required between meter stack and main disconnect or tap box when installation is in EUSERC metering jurisdictions. The spacer can also be used to extend the length of the lineup when needed.



- ④ Meter stacks should be selected to coincide with the number of meter positions required. All thru bussing must be the same as the service entrance device (all single phase or all three phase). Each stack comes with a single bolt joint coupler and mounting rail. A single bolt joint coupler is needed for each thru bus connection. Utilities have varying requirements on height restrictions, cover types, and bypass types for each application therefore utility acceptance should be obtained prior to installation of any modules.



- ⑤ Order a circuit breaker tenant main for each meter position. Circuit breakers must match phase of meter socket. Determine proper breaker from series rating chart.



- ⑥ Tapboxes allow for a direct connection to the thru bussing. This is typically used to feed meter modules when 6 or less meters are present, but it can also be used to feed remote equipment from a modular meter installation such as a current transformer cabinet. As this is un-metered power it is the installer's responsibility to ensure utility approval prior to installation.

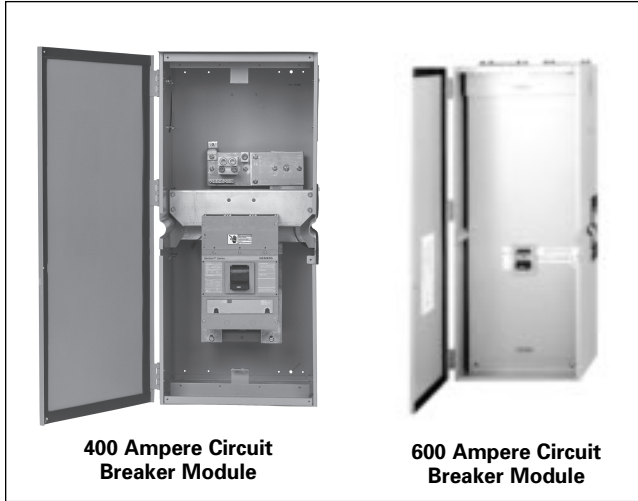


Various accessories are available to help customize the products to fit your application. All breaker, switch, and tapbox modules include (2) thru bus cover plates (cat # WMEP) meant to cover the ends of the installation. Additional cover plates are available for order if needed. For applications using a load-side tap box or breaker module an additional single bolt joint coupler will be needed (cat #'s SBJ1 for single phase, SBJ4 for three phase). Other accessories can be found on page 3-67.

ⓐ Spacers are required between meter stack and main disconnect or tap box when installation is in EUSERC metering jurisdictions. Check with other utilities prior to installation.

Meter Centers

Modular Metering: Circuit Breaker Service Entrance Modules



Features

- 65,000 AIC Rated, 100,000 AIC Available[Ⓞ]
- Devices available in top feed or bottom feed construction[Ⓞ]
- Alternate amperage units available[Ⓞ]
- All standard enclosures are Nema 3R rated[Ⓞ]
- Devices equipped for bus duct entry are available[Ⓞ], see page 3-69
- Breaker modules include hanging bracket and end plates. Order extra single bolt joint coupler if used as a load side disconnect, see page 3-67 for accessories

3 METERING

Check local utility requirements prior to installation.

Circuit Breaker Modules

| Ampere Rating | Maximum Interrupt Rating | Outdoor Enclosure | | | | | | | Breaker Type [Ⓞ] | Line Terminal Lugs No. & Size Per Line & Neutral [Ⓞ] | Dimensions (inches) [Ⓞ] | | |
|---------------|--------------------------|-------------------|--------------------|---------------|---------|-------------|---------------|---------|---------------------------|---|----------------------------------|-------|-------|
| | | Top Feed | Old Catalog Number | List Price \$ | KO Fig. | Bottom Feed | List Price \$ | KO Fig. | | | Height | Width | Depth |

1-Phase, 3-Wire SN, Incoming, 120/240V AC Max.

| | | | | | | | | | | | | | |
|------|--------|-------|--------|----------|-----|---------|----------|-----|------|--------------------|-------|-------|-------|
| 400 | 65,000 | WMC4 | DB042W | 7471.00 | A4A | WMC4BF | 7471.00 | A4B | JXD6 | (2) #1-500 kcmil | 33.00 | 15.09 | 15.00 |
| 600 | 65,000 | WMC6 | DB062W | 11332.00 | A4C | WMC6BF | 11332.00 | A4D | LXD6 | (2) #1-500 kcmil | 37.00 | 15.09 | 15.00 |
| 700 | 65,000 | WMC7 | — | 14266.00 | A5A | WMC7BF | 14266.00 | A5B | MD6 | (3) #1/0-500 kcmil | 43.00 | 20.09 | 15.00 |
| 800 | 65,000 | WMC8 | DB082W | 14266.00 | A5A | WMC8BF | 14266.00 | A5B | MD6 | (3) #1/0-500 kcmil | 43.00 | 20.09 | 15.00 |
| 1000 | 65,000 | WMC10 | DB102W | 19469.00 | A6A | WMC10BF | 19469.00 | A6B | ND6 | (4) #2-500 kcmil | 50.00 | 20.09 | 15.00 |
| 1200 | 65,000 | WMC12 | DB122W | 27691.00 | A6A | WMC12BF | 27691.00 | A6B | ND6 | (4) #2-500 kcmil | 50.00 | 20.09 | 15.00 |
| 1400 | 65,000 | WMC14 | DB142W | 37449.00 | A7A | WMC14BF | 37449.00 | A7B | PD6 | (5) 300-600 kcmil | 62.00 | 24.88 | 16.48 |
| 1600 | 65,000 | WMC16 | DB162W | 37449.00 | A7A | WMC16BF | 37449.00 | A7B | PD6 | (5) 300-600 kcmil | 62.00 | 24.88 | 16.48 |

3-Phase, 4-Wire SN, Incoming, 240V AC Max.

| | | | | | | | | | | | | | |
|------|--------|---------------------|--------|----------|-----|-----------------------|----------|-----|------|--------------------|-------|-------|-------|
| 400 | 65,000 | WMC44 | DB043W | 8552.00 | A4A | WMC44BF | 8552.00 | A4B | JXD6 | (2) #1-500 kcmil | 33.00 | 15.09 | 15.00 |
| 600 | 65,000 | WMC64 | DB063W | 13468.00 | A4C | WMC64BF | 13468.00 | A4D | LXD6 | (2) #1-500 kcmil | 37.00 | 15.09 | 15.00 |
| 700 | 65,000 | WMC74 | — | 17567.00 | A5A | WMC74BF | 17567.00 | A5B | MD6 | (3) #1/0-500 kcmil | 43.00 | 20.09 | 15.00 |
| 800 | 65,000 | WMC84 | DB083W | 17567.00 | A5A | WMC84BF | 17567.00 | A5B | MD6 | (3) #1/0-500 kcmil | 43.00 | 20.09 | 15.00 |
| 1000 | 65,000 | WMC104 | DB103W | 22072.00 | A6A | WMC104BF | 22072.00 | A6B | ND6 | (4) #2-500 kcmil | 50.00 | 20.09 | 15.00 |
| 1200 | 65,000 | WMC124 | DB123W | 31012.00 | A6A | WMC124BF | 31012.00 | A6B | ND6 | (4) #2-500 kcmil | 50.00 | 20.09 | 15.00 |
| 1400 | 65,000 | WMC144 [Ⓞ] | DB143W | 45846.00 | A7A | WMC144BF [Ⓞ] | 45846.00 | A7B | PD6 | (5) 300-600 kcmil | 62.00 | 24.88 | 16.48 |
| 1600 | 65,000 | WMC164 [Ⓞ] | DB163W | 45846.00 | A7A | WMC164BF [Ⓞ] | 45846.00 | A7B | PD6 | (5) 300-600 kcmil | 62.00 | 24.88 | 16.48 |

| Ampere Rating | Maximum Interrupt Rating | Indoor Enclosure | | | | | | Breaker Type [Ⓞ] | Line Terminal Lugs No. & Size Per Line & Neutral [Ⓞ] | Dimensions (inches) [Ⓞ] | | |
|---------------|--------------------------|-------------------|---------------|---------|---------------------|---------------|---------|---------------------------|---|----------------------------------|-------|-------|
| | | Top Feed | List Price \$ | KO Fig. | Bottom Feed | List Price \$ | KO Fig. | | | Height | Width | Depth |
| 2000 | 65,000 | MC20 [Ⓞ] | 43272.00 | A30A | MC20BF [Ⓞ] | 43272.00 | A30B | RD6 | (5) 300-600 kcmil | 62.00 | 24.88 | 16.48 |

[Ⓞ] Dimensions shown are representative of outside box dimensions and do not include allowances for mounting bumps, covers, hubs, or hardware protrusions.

[Ⓞ] Wire range is the maximum allowable.

[Ⓞ] 1200amp maximum feed per side.

[Ⓞ] Contact sales office for ordering information on 100K rated units. 10% adder applies.

[Ⓞ] Devices are top or bottom, not combination. Both constructions use the same enclosure size and knockout patterns.

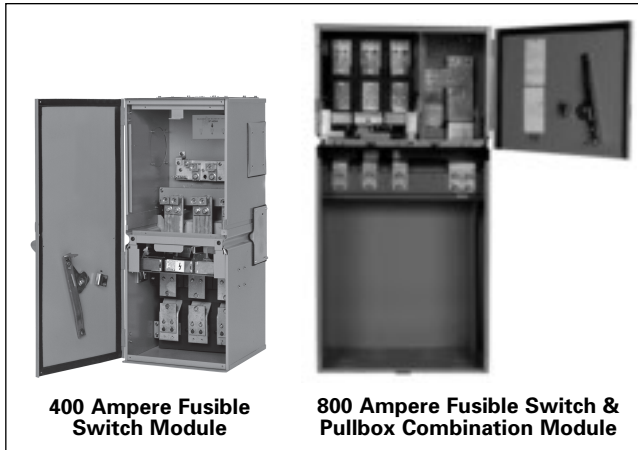
[Ⓞ] Contact sales office for ordering information. Lead time may apply.

[Ⓞ] Bus Duct devices and 2000amp device are indoor, type N1, only.

[Ⓞ] Breaker types listed are for top feed units. All bottom feed units use non-interchangeable trip breakers.

Meter Centers

Modular Metering: Main Switch Service Entrance Modules



Features

- 400-800Amp Standard Switches (Non-EUSERC) are invertible for top or bottom feed
- 1200Amp device uses a molded case switch (looks like a breaker)
- All switches are setup for class T fuses
- 100,000 AIC Rating
- Small Compact Size
- Bus Duct entry available for 400-800Amp standard switches, see page 3-69

Check local utility requirements prior to installation.

Fusible Switch Modules

| Ampere Rating | Maximum Interrupt Rating | Outdoor Enclosure | | | Fuse Type ^③ | Service Feed | Line Terminal Lugs No. & Size Per Line & Neutral ^④ | Dimensions (inches) ^⑤ | | | KO Fig. |
|---|--------------------------|----------------------|--------------------|---------------|------------------------|--------------|---|----------------------------------|-------|-------|---------|
| | | Catalog Number | Old Catalog Number | List Price \$ | | | | Height | Width | Depth | |
| 1-Phase, 3-Wire SN, Incoming, 120/240V AC Max. | | | | | | | | | | | |
| 200 | 100,000 | WMP02U ^⑥ | DT022W | 1430.00 | T | OH | (1) #6-250 kcmil | 33.00 | 12.00 | 13.00 | A3 |
| 400 | 100,000 | WMS4U | DT042W | 4352.00 | T | OH/UG | (2) #4-500 kcmil | 35.50 | 15.00 | 16.00 | A1A |
| 600 | 100,000 | WMS6U | DT062W | 8267.00 | T | OH/UG | (2) #4-500 kcmil | 41.50 | 15.00 | 16.00 | A1B |
| 800 | 100,000 | WMS8U | DT082W | 12668.00 | T | OH/UG | (3) #4-500 kcmil | 41.50 | 15.00 | 16.00 | A1C |
| 1200 | 100,000 | WMS12U ^⑥ | DT122W | 27172.00 | T | UG | (4) #250-500 kcmil | 50.00 | 20.00 | 15.00 | A1D |
| 3-Phase, 4-Wire SN, Incoming, 240V AC Max. | | | | | | | | | | | |
| 200 | 100,000 | WMP024U ^⑥ | DT023W | 2176.00 | T | OH/UG | (1) #6-250 kcmil | 33.00 | 12.00 | 13.00 | A3 |
| 400 | 100,000 | WMS44U | DT043W | 4945.00 | T | OH/UG | (2) #4-500 kcmil | 35.50 | 15.00 | 16.00 | A1A |
| 600 | 100,000 | WMS64U | DT063W | 10096.00 | T | OH/UG | (2) #4-500 kcmil | 41.50 | 15.00 | 16.00 | A1B |
| 800 | 100,000 | WMS84U | DT083W | 18392.00 | T | OH/UG | (3) #4-500 kcmil | 41.50 | 15.00 | 16.00 | A1C |
| 1200 | 100,000 | WMS124U ^⑥ | DT123W | 30471.00 | T | UG | (4) #250-500 kcmil | 50.00 | 20.00 | 15.00 | A1D |

Combination Fusible Switch & Pull Box Modules (Meets EUSERC Requirements)

| Ampere Rating | Maximum Interrupt Rating | Outdoor Enclosure | | | Fuse Type | Service Feed | Line Terminal Lugs No. & Size Per Line & Neutral | Dimensions (inches) ^⑤ | | | KO Fig. |
|---|--------------------------|-------------------|--------------------|---------------|-----------|--------------|--|----------------------------------|-------|-------|---------|
| | | Catalog Number | Old Catalog Number | List Price \$ | | | | Height | Width | Depth | |
| 1-Phase, 3-Wire SN, Incoming, 120/240V AC Max. | | | | | | | | | | | |
| 400 | 100,000 | WMS4UPBU | DT042UW | 5330.00 | T | UG | 1 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |
| 600 | 100,000 | WMS6UPBU | DT062UW | 9862.00 | T | UG | 2 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |
| 800 | 100,000 | WMS8UPBU | DT082UW | 14243.00 | T | UG | 3 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |
| 3-Phase, 4-Wire SN, Incoming, 240V AC Max. | | | | | | | | | | | |
| 400 | 100,000 | WMS44UPBU | DT043UW | 7287.00 | T | UG | 1 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |
| 600 | 100,000 | WMS64UPBU | DT063UW | 12952.00 | T | UG | 2 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |
| 800 | 100,000 | WMS84UPBU | DT083UW | 21300.00 | T | UG | 3 Set of 2 Studs | 50.06 | 25.50 | 15.00 | A2A |

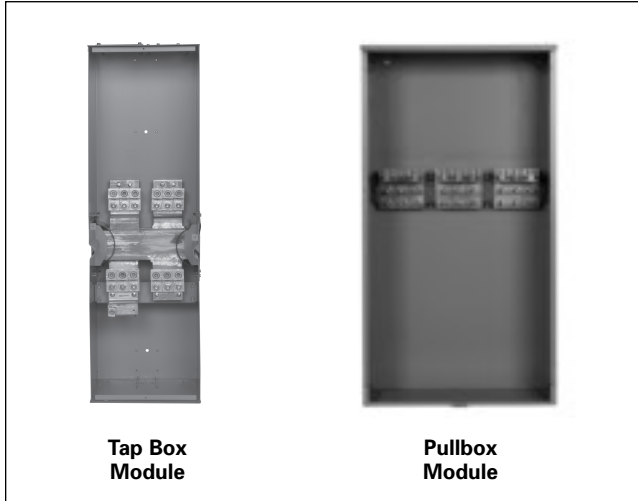
① Dimensions shown are representative of outside box dimensions and do not include allowances for mounting bumps, covers, hubs, or hardware protrusions.
 ② Wire range listed is the maximum allowable.

③ Fuses not included.
 ④ Fusible pull-out switch.
 ⑤ Lugs not included. NEMA II Stud Pattern lugs must be installed by user or utility.

⑥ Device uses a molded case switch (looks like a breaker). Class T fuses must be installed in conjunction with the molded case switch for proper operation.

Meter Centers

Modular Metering: Tap Box and Pullbox Modules



Features

Tap Boxes

- 1200Amp thru bussing included for line side feed or load side tap and are invertible for top or bottom feed
- 100,000 AIC Rating
- Compact Construction

Pullboxes

- EUSERC-compliant construction for cable entry and exit (no thru bus connection)
- Can be used with breaker modules (up to 1200amps) for EUSERC compliance for underground feed or when extra conductor length needed (aligns with 6" KO on both modules)
- 65,000 AIC Rating

3 METERING

Check local utility requirements prior to installation.

Tap Box Modules³

| Ampere Rating | Maximum Interrupt Rating | Outdoor Enclosure | | | Service Feed | Line Terminal Lugs No. & Size Per Line & Neutral ² | Dimensions (inches) ¹ | | | KO Fig. |
|---------------|--------------------------|-------------------|--------------------|---------------|--------------|---|----------------------------------|-------|-------|---------|
| | | Catalog Number | Old Catalog Number | List Price \$ | | | Height | Width | Depth | |

1-Phase, 3-Wire SN, Incoming, 120/240V AC Max.

| | | | | | | | | | | |
|------|---------|---------|---------|---------|-------|-------------------|-------|-------|-------|----|
| 800 | 100,000 | WMTB8U | DTB082W | 1605.00 | OH/UG | (3) 1/0-400 kcmil | 39.00 | 12.00 | 12.00 | A2 |
| 1200 | 100,000 | WMTB12U | DTB122W | 2422.00 | OH/UG | (4) 250-600 kcmil | 41.00 | 15.00 | 13.00 | A8 |
| 1600 | 100,000 | WMTB16U | DTB162W | 5194.00 | OH/UG | (5) 300-600 kcmil | 41.75 | 25.00 | 14.00 | A9 |

3-Phase, 4-Wire SN, Incoming, 240V AC Max.

| | | | | | | | | | | |
|------|---------|----------|---------|---------|-------|-------------------|-------|-------|-------|----|
| 800 | 100,000 | WMTB84U | DTB083W | 1738.00 | OH/UG | (3) 1/0-400 kcmil | 39.00 | 12.00 | 12.00 | A2 |
| 1200 | 100,000 | WMTB124U | DTB123W | 2703.00 | OH/UG | (4) 250-600 kcmil | 41.00 | 15.00 | 13.00 | A8 |
| 1600 | 100,000 | WMTB164U | DTB163W | 5620.00 | OH/UG | (5) 300-600 kcmil | 41.75 | 25.00 | 14.00 | A9 |

Pullbox Modules (no thru-bus, includes lug landings)

| Ampere Rating | Maximum Interrupt Rating ³ | Outdoor Enclosure | | | Service Feed | Line Terminal Lugs No. & Size Per Line & Neutral | Load Side Lugs Per Phase | Dimensions (inches) ¹ | | | KO Fig. |
|---------------|---------------------------------------|-------------------|--------------------|---------------|--------------|--|--------------------------|----------------------------------|-------|-------|---------|
| | | Catalog Number | Old Catalog Number | List Price \$ | | | | Height | Width | Depth | |

1-Phase, 3-Wire SN, Incoming, 120/240V AC Max.

| | | | | | | | | | | | |
|------|--------|-----------|----------|---------|----|-------------------|------------------|-------|-------|-------|------|
| 400 | 65,000 | WMMB1400 | DPB042W | 1472.00 | UG | 1 Set of 2 Studs | (2) #1-500 kcmil | 37.50 | 16.69 | 9.34 | A10A |
| 800 | 65,000 | WMMB1800 | DPB082W | 1634.00 | UG | 2 Sets of 2 Studs | (2) #1-500 kcmil | 45.50 | 19.44 | 12.72 | A10B |
| 1200 | 65,000 | WMMB11200 | DPB0122W | 3393.00 | UG | 3 Sets of 2 Studs | (4) #1-500 kcmil | 47.50 | 25.94 | 12.72 | A10C |

3-Phase, 4-Wire SN, Incoming, 240V AC Max.

| | | | | | | | | | | | |
|------|--------|-----------|---------|---------|----|-------------------|------------------|-------|-------|-------|------|
| 400 | 65,000 | WMMB3400 | DPB043W | 2333.00 | UG | 1 Set of 2 Studs | (4) #1-500 kcmil | 37.50 | 16.69 | 9.34 | A10A |
| 800 | 65,000 | WMMB3800 | DPB083W | 2943.00 | UG | 2 Sets of 2 Studs | (6) #1-500 kcmil | 45.50 | 25.94 | 12.72 | A10B |
| 1200 | 65,000 | WMMB31200 | DPB123W | 6123.00 | UG | 3 Sets of 2 Studs | (6) #1-500 kcmil | 47.50 | 33.83 | 12.72 | A10C |

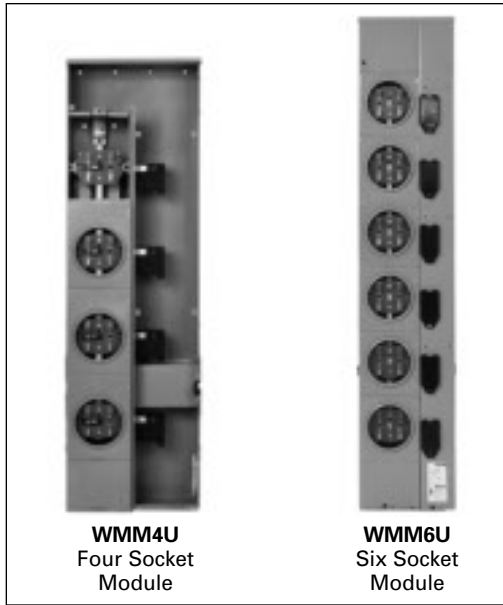
¹ Dimensions shown are representative of outside box dimensions and do not include allowances for mounting bumps, hubs, or hardware protrusions.
² Wire range listed is the maximum allowable.

³ Single bolt joint coupler not included. If used for load side application an additional coupler must be ordered.

⁴ Devices rated for 22,000, 65,000 rating requires cables to be tied together. Please see instructions with pullbox for details.

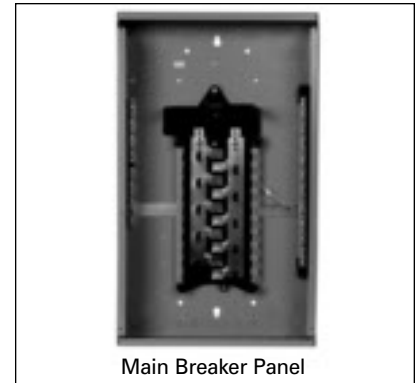
Meter Centers

Modular Metering: Residential Modules—Ring Style



Features

- UL Listed for 60/75° C conductors. See equipment markings for applications
- 1200 Amp thru bus
- Factory phased 3ø units saves on installation time
- 200A units UL Listed for use on systems capable of delivering up to 100,000 RMS symmetrical amperes maximum short circuit current
- Single bolt joint coupler included. Order additional couplers as needed. Use closure plates from main device to seal openings on side for thru bus.



Main Breaker Panel

Series Tested Systems—Specify Siemens Modular Metering equipment in conjunction with Rock Solid Load Centers.

Check local utility requirements prior to installation.

1-Phase, 3-Wire SN, Incoming & Outgoing, Ring Type Gangable Meter Stack

| Continuous Duty Amps Per Position | Meter Positions Per Stack | Catalog Number | Old Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Field Installed 5th Jaw Assembly ^② | KO Fig. |
|--|---------------------------|----------------|--------------------|---------------|---|--------------------------|-------------------------|-------|-------|---|---------|
| | | | | | | | Height | Width | Depth | | |
| 1-Phase 4-Jaw Sockets, 1 Phase-3 Wire Thru-Bus 120/240V AC Max. | | | | | | | | | | | |
| 125 | 2 | WMM2U | — | 1509.00 | MP-T, MP-HT, MP-MT | 65,000 | 32.41 | 13.44 | 7.84 | ECMM5J | A12 |
| | 3 | WMM3U | DG331W | 1690.00 | | 65,000 | 41.41 | 13.44 | 7.84 | ECMM5J | A12 |
| | 4 | WMM4U | DG431W | 2218.00 | | 65,000 | 50.41 | 13.44 | 7.84 | ECMM5J | A13 |
| | 5 | WMM5U | DG531W | 2858.00 | | 65,000 | 59.41 | 13.44 | 7.84 | ECMM5J | A14 |
| | 6 | WMM6U | DG631W | 3516.00 | | 65,000 | 68.41 | 13.44 | 7.84 | ECMM5J | A15 |
| 200 | 2 | WMM2200U | DG232W | 3362.00 | MPP-T, MPP-H, MPP-MT, MPP-PT, MP-T, MP-HT, MP-MT ^② | 100,000 | 36.41 | 17.44 | 7.84 | ECMM5J | A16 |
| | 3 | WMM3200U | DG332W | 3599.00 | | 100,000 | 47.41 | 17.44 | 7.84 | ECMM5J | A17 |
| | 4 | WMM4200U | DG432W | 4960.00 | | 100,000 | 58.41 | 17.44 | 7.84 | ECMM5J | A18 |

3-Phase, 4-Wire SN, Incoming and 1-Phase, 3-Wire SN Outgoing, Ring Type Gangable Meter Stacks

| Continuous Duty Amps Per Position | Meter Positions Per Stack | Catalog Number | Old Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | 5th Jaw Assembly | Stack Phasing: Phases/Socket | KO Fig. |
|--|---------------------------|----------------|--------------------|---------------|---|--------------------------|-------------------------|-------|-------|------------------|------------------------------|---------|
| | | | | | | | Height | Width | Depth | | | |
| 1-Phase 5-Jaw Sockets, 3 Phase-4 Wire Thru-Bus 208Y/120V AC^③ | | | | | | | | | | | | |
| 125 | 3 | WMM34U | DG341W | 1798.00 | MP-T, MP-HT, MP-MT | 65,000 | 41.41 | 13.44 | 7.84 | Installed | 1-AB, 1-BC, 1-CA | A12 |
| | 4 | WMM44ABU | DG441W | 2401.00 | | 65,000 | 50.41 | 13.44 | 7.84 | Installed | 2-AB, 1-BC, 1-CA | A13 |
| | 4 | WMM44BCU | — | 2401.00 | | 65,000 | 50.41 | 13.44 | 7.84 | Installed | 2-BC, 1-AC, 1-AB | A13 |
| | 4 | WMM44CAU | — | 2401.00 | | 65,000 | 50.41 | 13.44 | 7.84 | Installed | 2-AB, 1-BC, 1-CA | A13 |
| | 5 | WMM54ABU | DG541W | 3097.00 | | 65,000 | 59.41 | 13.44 | 7.84 | Installed | 1-AB, 2-BC, 2-CA | A14 |
| | 6 | WMM64U | DG641W | 3806.00 | | 65,000 | 68.41 | 13.44 | 7.84 | Installed | 2-AB, 2-BC, 2-CA | A15 |
| 200 | 2 | WMM24AB200U | DG242W | 3417.00 | MPP-T, MPP-H, MPP-MT, MPP-PT, MP-T, MP-HT, MP-MT ^② | 100,000 | 36.41 | 17.44 | 7.84 | Installed | 1-BC, 1-CA | A16 |
| | 3 | WMM34200U | DG342W | 3806.00 | | 100,000 | 47.41 | 17.44 | 7.84 | Installed | 1-AB, 1-BC, 1-CA | A17 |
| | 4 | WMM44AB200U | DG442W | 4852.00 | | 100,000 | 58.41 | 17.44 | 7.84 | Installed | 2-AB, 1-BC, 1-CA | A18 |
| | 4 | WMM44BC200U | — | 4852.00 | | 100,000 | 58.41 | 17.44 | 7.84 | Installed | 2-BC, 1-AC, 1-AB | A18 |
| | 4 | WMM44CA200U | — | 4852.00 | | 100,000 | 58.41 | 17.44 | 7.84 | Installed | 2-AB, 1-BC, 1-CA | A18 |
| | 5 | WMM54AB200U | — | 5660.00 | | 100,000 | 69.41 | 17.44 | 7.84 | Installed | 2-AC, 2-BC, 1-AB | A19 |
| | 5 | WMM54BC200U | — | 5660.00 | | 100,000 | 69.41 | 17.44 | 7.84 | Installed | 2-AC, 2-AB, 1-BC | A19 |
| | 6 | WMM54CA200U | — | 5660.00 | | 100,000 | 69.41 | 17.44 | 7.84 | Installed | 2-AB, 2-BC, 1-AC | A19 |

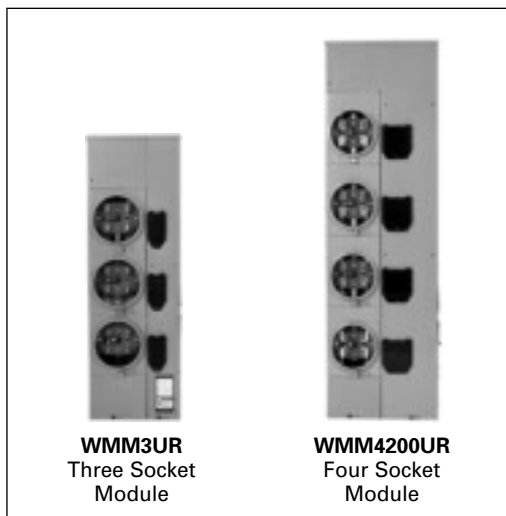
① Dimensions shown are representative of outside box length, width, & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions.

② Order filler plate ECPC3U if using standard 2" wide circuit breaker (QP/MP-T).
③ NOT for use on 3 phase-4 wire delta systems.
④ Order ECMM5J for insulated 5th jaw.

⑤ Max. AIC determined by maximum AIC of tenant breakers. Higher ratings may be achieved thru approved series rating combinations.

Meter Centers

Modular Metering: Residential Modules—Ringless Style



Features

- UL Listed for 60/75°C conductors. See equipment markings for applications
- Individual split covers with barrel lock compatibility
- Available with and without factory installed horn bypass - field install horn bypass kit available (#ECHBK)
- 1200 Amp Thru Bus
- Factory phased 3 ϕ units saves on installation time
- Single bolt joint coupler included. Order additional couplers as needed. Use closure plates from main device to seal openings for thru bus on side.
- 200A units UL Listed for use on systems capable of delivering up to 100,000 RMS symmetrical amperes maximum short circuit current

Series Tested Systems—Specify Siemens Modular Metering equipment in conjunction with Rock Solid Load Centers.

Check local utility requirements prior to installation.

1-Phase, 3-Wire SN, Incoming & Outgoing, Ringless Type Gangable Meter Stacks^⑥

| Thru-Bus Rating (amps) | Cont. Amps/Pos | Meter Positions Per Stack | Catalog Number | | | | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Field Installed 5th Jaw Assembly ^④ | KO Fig. | |
|------------------------|----------------|---------------------------|----------------|--------------------|---------------|-----------|-------------------|--|-------------------------|--------|-------|---|---------|-------|
| | | | Horn Bypass | Old Catalog Number | List Price \$ | No Bypass | | | List Price \$ | Height | Width | | | Depth |
| 1200 | 125 | 2 | WMM2UR | — | 1589.00 | WMM2URNJ | 1640.00 | MP-T, MP-HT, MP-MT | 65,000 | 32.41 | 13.44 | 7.84 | ECMM5J | A11 |
| | | 3 | WMM3UR | DC331W | 1786.00 | WMM3URNJ | 1852.00 | | 65,000 | 41.41 | 13.44 | 7.84 | ECMM5J | A12 |
| | | 4 | WMM4UR | DC431W | 2338.00 | WMM4URNJ | 2481.00 | | 65,000 | 50.41 | 13.44 | 7.84 | ECMM5J | A13 |
| | | 5 | WMM5UR | DC532W | 2988.00 | WMM5URNJ | 3126.00 | | 65,000 | 59.41 | 13.44 | 7.84 | ECMM5J | A14 |
| | | 6 | WMM6UR | — | 3650.00 | WMM6URNJ | 3987.00 | | 65,000 | 68.41 | 13.44 | 7.84 | ECMM5J | A15 |
| | | 2 | WMM2200UR | DC232W | 3417.00 | WMM22URNJ | 1715.00 | | 100,000 | 36.41 | 17.44 | 7.84 | ECMM5J | A16 |
| | 200 | 3 | WMM3200UR | DC332W | 3675.00 | WMM32URNJ | 3806.00 | MP-T, MP-HT, MP-MT, MPP-T, MPP-HT, MPP-MT, MPP-PT ^⑤ | 100,000 | 47.41 | 17.44 | 7.84 | ECMM5J | A17 |
| | | 4 | WMM4200UR | DC432W | 5093.00 | WMM42URNJ | 5195.00 | | 100,000 | 58.41 | 17.44 | 7.84 | ECMM5J | A18 |

3-Phase, 4-Wire^③ SN, Incoming and 1-Phase, 3-Wire SN Outgoing, 5-Jaw^④ Ringless Type Gangable Meter Stacks^⑥

| Thru-Bus Rating (amps) | Cont. Amps/Pos | Meter Positions Per Stack | Catalog Number | | | | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Stack Phasing Phases/Socket | KO Fig. | | | |
|------------------------|----------------|---------------------------|----------------|--------------------|---------------|--------------|-------------------|--------------------------|-------------------------|--|---------|-----------------------------|------------------|------------------|------------------|-----|
| | | | Horn Bypass | Old Catalog Number | List Price \$ | No Bypass | | | List Price \$ | Height | Width | | | Depth | | |
| 1200 | 125 | 3 | WMM34UR | DC341W | 1875.00 | WMM34URNJ | 1960.00 | MP-T, MP-HT, MP-MT | 65,000 | 41.41 | 13.44 | 7.84 | 1-AB, 1-BC, 1-AC | A12 | | |
| | | 4 | WMM44ABUR | DC441W | 2533.00 | WMM44ABURNJ | 2647.00 | | 65,000 | 50.41 | 13.44 | 7.84 | 2-AB, 1-BC, 1-AC | A13 | | |
| | | | WMM44BCUR | DC441W | 2533.00 | WMM44BCURNJ | 2647.00 | | 65,000 | 50.41 | 13.44 | 7.84 | 1-AB, 2-BC, 1-AC | A14 | | |
| | | | WMM44CAUR | DC441W | 2533.00 | WMM44CAURNJ | 2647.00 | | 65,000 | 50.41 | 13.44 | 7.84 | 1-AB, 1-BC, 2-AC | A14 | | |
| | | | WMM54ABUR | — | 3226.00 | WMM54ABURNJ | 3417.00 | | 65,000 | 59.41 | 13.44 | 7.84 | 1-AB, 2-BC, 2-AC | A14 | | |
| | | 5 | WMM54BCUR | — | 3226.00 | WMM54BCURNJ | 3417.00 | | 65,000 | 59.41 | 13.44 | 7.84 | 2-AB, 1-BC, 2-AC | A15 | | |
| | | | WMM54CAUR | — | 3226.00 | WMM54CAURNJ | 3417.00 | | 65,000 | 59.41 | 13.44 | 7.84 | 2-AB, 2-BC, 1-AC | A15 | | |
| | | | 6 | WMM64UR | — | 3987.00 | WMM64URNJ | | 4019.00 | 65,000 | 68.41 | 13.44 | 7.84 | 2-AB, 2-BC, 2-AC | A15 | |
| | | | 2 | — | — | — | WMM24AB2URNJ | | 3582.00 | 100,000 | 36.41 | 17.44 | 7.84 | 1-BC, 1-AC | A16 | |
| | | 200 | 3 | WMM34200UR | DC342W | 3886.00 | WMM342URNJ | | 3962.00 | MP-T, MP-HT, MP-MT, MPP-T, MPP-HT, MPP-MT, MPP-PT ^⑤ | 100,000 | 47.41 | 17.44 | 7.84 | 1-AB, 1-BC, 1-AC | A17 |
| | | | 4 | WMM44AB200UR | DC442W | 4960.00 | WMM44AB2URNJ | | 5093.00 | | 100,000 | 58.41 | 17.44 | 7.84 | 2-AB, 1-BC, 1-AC | A18 |
| | | | | WMM44BC200UR | DC442W | 4960.00 | WMM44BC2URNJ | | 5093.00 | | 100,000 | 58.41 | 17.44 | 7.84 | 1-AB, 2-BC, 1-AC | A18 |
| | WMM44CA200UR | | | DC442W | 4960.00 | WMM44CA2URNJ | 5093.00 | 100,000 | 58.41 | | 17.44 | 7.84 | 1-AB, 1-BC, 2-AC | A18 | | |
| | — | | | — | — | WMM54AB2URNJ | 5750.00 | 100,000 | 69.41 | | 17.44 | 7.84 | 1-AB, 2-BC, 2-AC | A19 | | |
| | — | | — | — | WMM54BC2URNJ | 5750.00 | 100,000 | 69.41 | 17.44 | | 7.84 | 2-AB, 1-BC, 2-AC | A19 | | | |
| | — | | — | — | WMM54CA2URNJ | 5750.00 | 100,000 | 69.41 | 17.44 | | 7.84 | 2-AB, 2-BC, 1-AC | A19 | | | |

① Dimensions shown are representative of outside box length, width, & depth and do not include allowances for mounting bumps, endwalls, covers, hubs or hardware protrusions.

② Order filler plate ECPC3U if using standard 2" wide circuit breaker (QP/MP-T).
 ③ NOT for use on 3 phase-4 wire delta systems.
 ④ Order ECMMI5J for insulated 5th jaw.
 ⑤ Max. AIC determined by maximum AIC of tenant

breakers. Higher ratings may be achieved thru approved series rating combinations.
 ⑥ Only "NJ" suffix should be used within the Florida Meter Group territory.

Meter Centers

Modular Metering: Commercial Modules—Introduction

Commercial metering applications using 240volts, such as shopping centers, office buildings, and small commercial buildings frequently require different meter sockets from those used in residential applications. In many instances a 3-phase meter socket and tenant circuit breaker must be used. Siemens is proud to offer a complete line of commercial metering to meet the majority of the vast array of utility specifications for commercial meter services.

For those utilities requiring a lever bypass Siemens has a complete line of 100-320amp/position lever bypass meter modules using the high-quality Landis & Gyr HQ lever bypass block. These modules offer several Siemens exclusive features to help installation.

If a EUSERC-approved commercial service is needed Siemens is now proud to offer our line of test-block bypass (TBB) commercial meter modules. These devices eliminate the labor intensive bussed gutter solution that was used in the past.

Some utilities require a bolt-in meter for 400amp applications. The bolt-in meter socket (also called K base) was designed and still originates with Landis & Gyr. Siemens offers the widest array of K base meter modules in the industry. The socket used in these modules is utility specific so please check for approval prior to installation.

The versatility and capability of the Siemens line of commercial meter modules has been designed to fit the majority of application and utility requirements and can be inter-connected with residential meter modules for maximum versatility.

Lever Bypass

Siemens lever bypass meter modules are designed to stand up to the heavy demands of commercial services. Siemens features the Landis & Gyr HQ meter block at each position. Modules are available with 3-phase or single phase thru bus coupled with 3-phase or single phase tenant circuit breakers. Applications requiring 240/120V AC 3-phase 4-wire Delta should only use those modules with a 3-phase tenant main provision.

Features include:

- 1-4 positions on 100 and 200amp devices
- 1-2 positions on 320amp(400amp max) devices
- 100,000 AIC on 200amp devices
- Factory installed tenant breakers on 320amp devices
- 3-Phase 100amp devices- saves on cost of 3-phase tenant mains
- 5th jaw included, standard, on all single phase meter modules
- 1200amp thru-bus, NEMA 3R outdoor construction
- Siemens exclusive floating deadfront on 200amp devices- eliminates the need for filler plates when using a 100amp breaker in a 200amp provision
- Centrally located neutrals and ground lugs by each breaker provision
- Factory phased sockets reduces installation time
- Horizontal 3-phase breaker mounting- reduces install time and effort

Test Block Bypass

Siemens line of test-block-bypass (TBB) meter modules are designed to provide a solution for commercial group metering applications in utility service areas that follow the EUSERC specification. Each position features the same meter block used on Siemens' commercial switchboards to maintain high quality standards. Modules are available with 3-phase or single phase thru bus coupled with 3-phase or single phase tenant circuit breakers. Applications requiring 240/120V AC 3-phase 4-wire Delta should only use those modules with a 3-phase tenant main provision.

Features include:

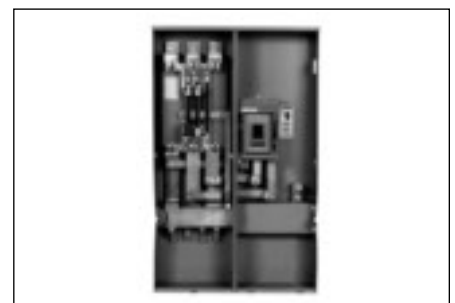
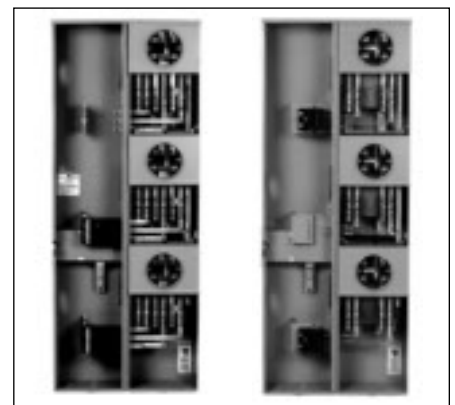
- 1-3 positions on 200amp devices
- Field conversion from 200amp to 100amp breakers with no additional kits
- 225 max tenant breaker capability
- Horizontal breaker mounting reduces install time and effort
- Centrally located neutral lugs

K Base

Siemens line of modules featuring the Landis & Gyr bolt-in meter socket (K base) is the most extensive in the industry. These modules are available in 1 position only and are available with 3-phase or single phase thru bus coupled with 3-phase or single phase tenant circuit breakers. Applications requiring 240/120V AC 3-phase 4-wire Delta should only use those modules with a 3-phase tenant main provision. These modules should not be installed until the local utility has given approval.

Features include:

- factory installed 400amp Siemens circuit breaker
- 400amp continuous/400amp max Landis & Gyr K base meter socket (K7 for three phase, type K5 for single phase)



Meter Centers

Commercial Meter Modules: Single Phase Lever Bypass



W1MM4225U

Features

- High-quality Landis & Gyr HQ lever bypass block
- Ground lugs mounted by each position
- 225amp tenant main provisions
- Floating deadfront eliminates need for 100amp conversion kits or filler plates
- Centrally located neutral lugs
- Compact size
- 100,000 AIC Rating



W1MM2400

Features

- High-quality Landis & Gyr HQ lever bypass block
- Factory installed 400amp tenant main breaker
- 225amp tenant main provisions
- One & Two position units now available
- 42,000 AIC Rating

3
METERING

1-Phase, 3-Wire SN[Ⓢ], Incoming and Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | Old Catalog Number | List Price \$ | Breaker Provision | Maximum AIC [Ⓢ] | Dimensions [Ⓢ] | | | Bypass Type | KO Fig. |
|--|---------------------------|---------------------------|-----------------------|--------------------|---------------|---|--------------------------|-------------------------|-------|-------|-------------|---------|
| | | | | | | | | Height | Width | Depth | | |
| <i>1-Phase 4-Jaw Sockets, 1 Phase-3 Wire Thru-Bus 120/240V AC Max. -Lever Bypass</i> | | | | | | | | | | | | |
| 1200 | 225 | 1 | W1MM1225U | DL135W4 | 3176.00 | MP-T, MP-HT, MP-MT MPP-T, MPP-HT, MPP-MT, MPP-PT [Ⓢ] | 100,000 | 23.75 | 23.50 | 9.13 | Lever | A20 |
| | | 2 | W1MM2225U | DL235W4 | 6535.00 | | 100,000 | 36.75 | 23.50 | 9.13 | Lever | A21 |
| | | 3 | W1MM3225U | DL335W4 | 9792.00 | | 100,000 | 49.75 | 23.50 | 9.13 | Lever | A22 |
| | | 4 | W1MM4225U | DL435W4 | 13174.00 | | 100,000 | 62.75 | 23.50 | 9.13 | Lever | A23 |
| | 400 | 1 | W1MM1400 [Ⓢ] | DL133W4 | 8901.00 | JXD22B400 Factory inst. | 42,000 | 57.00 | 26.00 | 8.66 | Lever | A24 |
| | 400 | 2 | W1MM2400 | — | 13547.00 | JXD22B400 Factory inst. | 42,000 | 70.38 | 23.00 | 9.69 | Lever | A26 |

Group Metering

[Ⓢ] Dimensions shown are representative of box dimensions and do not include allowances for mounting bumps, hubs or hardware protrusions.
[Ⓢ] Not for use on 3 phase-4 wire delta systems.

[Ⓢ] Max. AIC determined by maximum AIC of tenant breakers when used in conjunction with a meter socket. Higher overall ratings may be achieved thru approved series rating combinations.

[Ⓢ] Alternate trip amperages available. To order, add -amperage after catalog number (350amp becomes W1MM1400-350). List price remains the same. Contact sales office for lead time.
[Ⓢ] Order filler plate ECCP3U if using standard 2" wide circuit breaker (MP-T).

Meter Centers

Commercial Meter Modules: 3-Phase Input with 1-Phase Output Lever Bypass



W2MM4AB225U

Features

- High-quality Landis & Gyr HQ lever bypass block
- Ground lugs mounted by each position
- 225amp tenant main provisions
- Floating deadfront eliminates need for 100amp conversion kits or filler plates
- Centrally located neutral lugs
- Compact size
- 100,000 AIC Rating



W2MM2400AB

Features

- High-quality Landis & Gyr HQ lever bypass block
- Factory installed 400amp tenant main breaker
- One & Two position units now available
- 42,000 AIC Rating

3-Phase, 4-Wire SN, Incoming and 1-Phase, 3-Wire SN^② Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | Old Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Bypass Type | Stack Phasing: Phases/Socket ^④ | KO Fig. |
|---|---------------------------|---------------------------|-------------------------|--------------------|---------------|---|--------------------------|-------------------------|-------|-------|-------------|---|---------|
| | | | | | | | | Height | Width | Depth | | | |
| 1-Phase 5-Jaw Sockets, 3 Phase-4 Wire Thru-Bus 208Y/120V AC-Lever Bypass | | | | | | | | | | | | | |
| 1200 | 225 | 1 | W2MM1225U | DL145W5 | 3255.00 | MP-T, MP-HT, MP-MT MPP-T, MPP-HT, MPP-MT, MPP-PT ^⑤ | 65,000 | 23.75 | 23.50 | 9.13 | Lever | 1-AB | A20 |
| | | 2 | W2MM2AB225U | DL245W5 | 6486.00 | | 65,000 | 36.75 | 23.50 | 9.13 | Lever | 1-AC,1-BC | A21 |
| | | 2 | W2MM2BC225U | — | 6486.00 | | 65,000 | 36.75 | 23.50 | 9.13 | Lever | 1-AC,1-AB | A22 |
| | | 2 | W2MM2CA225U | — | 6486.00 | | 65,000 | 36.75 | 23.50 | 9.13 | Lever | 1-AB,1-BC | A23 |
| | | 3 | W2MM3225U | DL345W5 | 9608.00 | | 100,000 | 49.75 | 23.50 | 9.13 | Lever | 1-AB,1-BC,1-CA | A20 |
| | | 4 | W2MM4AB225U | DL445W5 | 12781.00 | | 100,000 | 62.75 | 23.50 | 9.13 | Lever | 2-AB,1-BC,1-CA | A21 |
| | | 4 | W2MM4BC225U | — | 12781.00 | | 100,000 | 62.75 | 23.50 | 9.13 | Lever | 1-AB,2-BC,1-CA | A22 |
| | | 4 | W2MM4CA225U | — | 12781.00 | | 100,000 | 62.75 | 23.50 | 9.13 | Lever | 1-AB,1-BC,2-CA | A23 |
| | 400 | 1 | W2MM1400AB ^⑥ | DL143W5 | 8901.00 | JXD22B400 Factory inst. | 42,000 | 57.00 | 26.00 | 8.66 | Lever | 1-AB | A24 |
| | 400 | 2 | W2MM2400AB | — | 14902.00 | JXD22B400 Factory inst. | 42,000 | 70.38 | 23.00 | 9.69 | Lever | 1-AB,1-BC | A26 |

① Dimensions shown are representative of box dimensions and do not include allowances for mounting bumps, hubs, or hardware protrusions.

② Not for use on 3 phase-4 wire delta systems.

③ Max. AIC determined by maximum AIC of tenant breakers when used in conjunction with a meter socket. Higher overall ratings may be achieved thru approved series rating combinations.

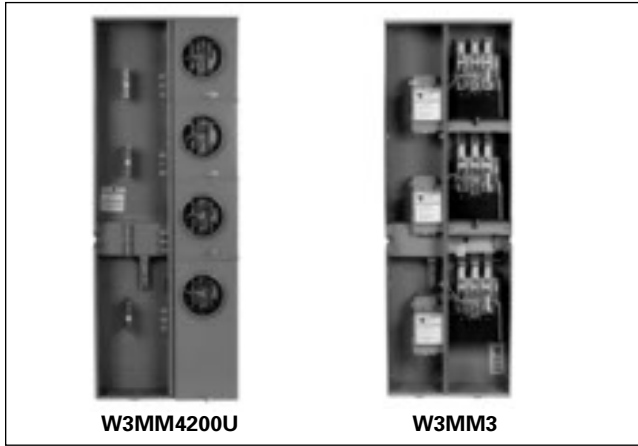
④ Alternate trip amperages available. To order, add -amperage after catalog number (350amp becomes W1MM1400-350). List price remains the same. Contact sales office for lead time.

⑤ Modules are factory phased. End user is responsible for balancing each phase by selecting the correct model number.

⑥ Order filler plate ECCP3U if using standard 2" wide circuit breaker (MP-T).

Meter Centers

Commercial Meter Modules: Three Phase with Lever Bypass



Features

- High-quality Landis & Gyr HQ lever bypass block
- Ground lugs mounted by each position
- Centrally located neutral lugs
- Horizontal breaker mounting reduces install time and effort
- 100amp modules save on tenant main cost



Features

- High-quality Landis & Gyr HQ lever bypass block
- 400amp tenant main breaker factory installed
- One & Two position units now available
- 42,000 AIC Rating

3
METERING

3-Phase, 4-Wire SN, Incoming and Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | Old Catalog Number | List Price \$ | Breaker Provision | Maximum AIC [Ⓢ] | Dimensions [Ⓢ] | | | Bypass Type | KO Fig. |
|---|---------------------------|---------------------------|-----------------------|--------------------|---------------|--------------------------------------|--------------------------|-------------------------|-------|-------|-------------|---------|
| | | | | | | | | Height | Width | Depth | | |
| 3-Phase 7-Jaw Sockets, 3 Phase-4 Wire Thru-Bus 208Y/120V AC Max. -Lever Bypass[Ⓢ] | | | | | | | | | | | | |
| 1200 | 100 | 1 | W3MM1 | DL141W7 | 3570.00 | MP-T, MP-HT, MP-MT [Ⓢ] | 65,000 | 29.11 | 20.21 | 8.93 | Lever | A31 |
| | | 2 | W3MM2 | DL241W7 | 6981.00 | | 65,000 | 44.70 | 20.21 | 8.93 | Lever | A32 |
| | | 3 | W3MM3 | DL341W7 | 10310.00 | | 65,000 | 61.20 | 20.21 | 8.93 | Lever | A33 |
| | | 4 | W3MM4 | DL441W7 | 13783.00 | | 65,000 | 77.70 | 20.21 | 8.93 | Lever | A34 |
| 3-Phase 7-Jaw Sockets, 3 Phase-4 Wire Thru-Bus 240V AC Max. -Lever Bypass | | | | | | | | | | | | |
| 1200 | 200 | 1 | W3MM1200U | DL142W7 | 3570.00 | QJ, QH2, QJ2-H, HQJ2-H, MQ, MQH, MQL | 100,000 | 23.75 | 23.50 | 9.13 | Lever | A20 |
| | | 2 | W3MM2200U | DL242W7 | 6981.00 | | 100,000 | 36.75 | 23.50 | 9.13 | Lever | A21 |
| | | 3 | W3MM3200U | DL342W7 | 10310.00 | | 100,000 | 49.75 | 23.50 | 9.13 | Lever | A22 |
| | | 4 | W3MM4200U | DL442W7 | 13783.00 | | 100,000 | 62.75 | 23.50 | 9.13 | Lever | A23 |
| | 400 | 1 | W3MM1400 [Ⓢ] | DL143W7 | 8901.00 | JXD22B400 Factory inst. | 42,000 | 57.00 | 26.00 | 8.66 | Lever | A24 |
| | 400 | 2 | W3MM2400 | — | 16369.00 | JXD22B400 Factory inst. | 42,000 | 70.38 | 23.00 | 9.69 | Lever | A26 |

Ⓢ Dimensions shown are representative of outside box dimensions and do not include allowances for mounting bumps, hubs, or hardware protrusions.
 Ⓢ Accepts 3-pole 100amp maximum circuit breaker.

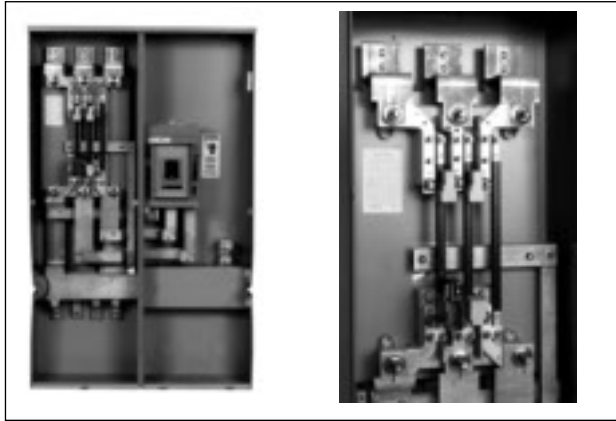
Ⓢ Max. AIC determined by maximum AIC of tenant breakers used in conjunction with meter socket. Higher ratings may be achieved overall thru approved series rating combinations.

Ⓢ Alternate trip amperages available. To order, add -amperage after catalog number (350amp becomes W3MM1400-350). List price remains the same. 1 high units only.
 Ⓢ Accepts 2-pole 100A max plug-in breaker.

Group Metering

Meter Centers

Commercial Meter Modules: K Base Bolt-In^④ Meter Modules



Features

- All modules feature the Landis & Gyr K5 (single phase) or K7 (three phase) Bolt-on Meter Base
- 22,000 AIC Rating

Note: Users are advised to contact utility PRIOR to installation to verify approval. User assumes all responsibility for ensuring utility acceptance prior to installation.

1-Phase, 3-Wire SN, Incoming and Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Stack Phasing: Phases/Socket | KO Fig. |
|--|---------------------------|---------------------------|----------------|---------------|-------------------------|--------------------------|-------------------------|-------|-------|------------------------------|---------|
| | | | | | | | Height | Width | Depth | | |
| <i>1-Phase 5 Terminal Landis & Gyr K5 Bolt-In Socket, 1 Phase-3 Wire Thru-Bus 120/240V AC Max.-No Bypass</i> | | | | | | | | | | | |
| 1200 | 400 | 1 | W1MM1400B | 10681.00 | JXD22B400 Factory inst. | 22,000 | 47.94 | 29.83 | 8.66 | — | A25 |

3-Phase, 4-Wire SN, Incoming and 1-Phase, 3-Wire SN Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Stack Phasing: Phases/Socket | KO Fig. |
|--|---------------------------|---------------------------|----------------|---------------|-------------------------|--------------------------|-------------------------|-------|-------|------------------------------|---------|
| | | | | | | | Height | Width | Depth | | |
| <i>1-Phase 5 Terminal Landis & Gyr K5 Bolt-In Socket, 1 Phase-3 Wire Thru-Bus 120/240V AC Max.-No Bypass</i> | | | | | | | | | | | |
| 1200 | 400 | 1 | W2MM1400BAB | 10681.00 | JXD22B400 Factory inst. | 22,000 | 47.94 | 29.83 | 8.66 | 1-AB | A25 |

3-Phase, 4-Wire SN, Incoming and Outgoing, Ringless Type Lever Bypass Gangable Meter Stacks

| Thru-Bus Rating (amps) | Max Tenant Breaker (amps) | Meter Positions Per Stack | Catalog Number | List Price \$ | Breaker Provision | Maximum AIC ^③ | Dimensions ^① | | | Stack Phasing: Phases/Socket | KO Fig. |
|--|---------------------------|---------------------------|------------------------|---------------|-------------------------|--------------------------|-------------------------|-------|-------|------------------------------|---------|
| | | | | | | | Height | Width | Depth | | |
| <i>3-Phase 7 Terminal Landis & Gyr K7 Bolt-In Socket, 3 Phase-4 Wire Thru-Bus 240V AC Max.-No Bypass</i> | | | | | | | | | | | |
| 1200 | 400 | 1 | W3MM1400B ^④ | 10681.00 | JXD22B400 Factory inst. | 22,000 | 47.94 | 29.83 | 8.66 | — | A25 |

① Dimensions shown are representative of outside box dimensions and do not include allowances for mounting bumps, hubs, or hardware protrusions.

② Not for use on 3 phase-4 wire delta systems.

③ Maximum AIC determined by maximum AIC of tenant breakers when used in conjunction with a meter socket. Higher ratings may be achieved thru approved series rating combinations.

④ Alternate trip amperages available. To order, add -amperage after catalog number (350amp becomes W3MM1400-350). List price remains the same. Lead time applies.

Meter Centers

Modular Metering: Commercial Modules—Test Block Bypass



Features

- EUSERC Compliant Test Block Bypass
- Ground lugs mounted by each position
- 225amp tenant breaker provisions (breakers not included)
- Single phase modules available with three phase thru bussing
- Horizontal breaker mounting reduces install time and effort
- Floating deadfront eliminates need for 100amp conversion kits or filler plates
- Replaces gangable BY devices

3

METERING

| Thru-Bus Rating (Amps) | Maximum Tenant Breaker | Socket Continuous Duty Amps | Meter Positions Per Stack | Catalog Number | List Price \$ | Breaker Provisions ^③ | Max. AIC | Dimensions (inches) | | | Stack Phasing Phases/Socket | KO Fig. |
|--|------------------------|-----------------------------|---------------------------|----------------|---------------|---------------------------------|----------|---------------------|------|-----|-----------------------------|---------|
| | | | | | | | | H | W | D | | |
| 1-Phase, 3-Wire Feed & Tenant Mains 120/240V AC Max.^{①②} | | | | | | | | | | | | |
| 1200 | 225 | 200 | 1 | W1MM1225USS | 1563.00 | MP-T, MP-HT, MP-MT, | 100,000 | 26.5 | 25.5 | 9.0 | — | A27 |
| 1200 | 225 | 200 | 2 | W1MM2225USS | 3006.00 | MPP-T, MPP-HT, | 100,000 | 46.0 | 25.5 | 9.0 | — | A28 |
| 1200 | 225 | 200 | 3 | W1MM3225USS | 4489.00 | MPP-MT, MPP-PT | 100,000 | 65.5 | 25.5 | 9.0 | — | A29 |
| 3-Phase, 4-Wire Feed & 1-Phase, 3-Wire Tenant Mains 120Y/208V AC Max.^① | | | | | | | | | | | | |
| 1200 | 225 | 200 | 1 | W2MM1225USS | 1714.00 | MP-T, MP-HT, MP-MT, | 100,000 | 26.5 | 25.5 | 9.0 | 1-AB | A27 |
| 1200 | 225 | 200 | 2 | W2MM2AB225USS | 3157.00 | MPP-T, MPP-HT, | 100,000 | 46.0 | 25.5 | 9.0 | 1-AC, 1-BC | A28 |
| 1200 | 225 | 200 | 2 | W2MM2BC225USS | 3157.00 | MPP-MT, MPP-PT | 100,000 | 46.0 | 25.5 | 9.0 | 1-AC, 1-AB | A28 |
| 1200 | 225 | 200 | 2 | W2MM2CA225USS | 3157.00 | | 100,000 | 46.0 | 25.5 | 9.0 | 1-AB, 1-BC | A28 |
| 1200 | 225 | 200 | 3 | W2MM3225USS | 4639.00 | | 100,000 | 65.5 | 25.5 | 9.0 | 1-AB, 1-BC, 1-AC | A29 |
| 3-Phase, 4-Wire Feed & Tenant Mains 240V Max.^② | | | | | | | | | | | | |
| 1200 | 225 | 200 | 1 | W3MM1225USS | 1895.00 | QJ, QJH2, | 100,000 | 26.5 | 25.5 | 9.0 | — | A27 |
| 1200 | 225 | 200 | 2 | W3MM2225USS | 3561.00 | QJ2H, HQJ2H | 100,000 | 46.0 | 25.5 | 9.0 | — | A28 |
| 1200 | 225 | 200 | 3 | W3MM3225USS | 5271.00 | | 100,000 | 65.5 | 25.5 | 9.0 | — | A29 |

① Not rated for use with 240/120V Delta systems.

② Rated for use with 240/120V Delta systems.

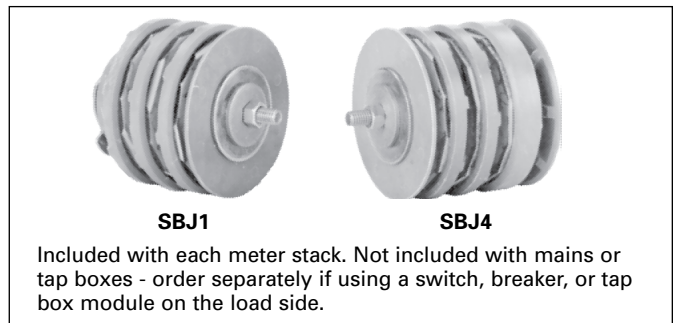
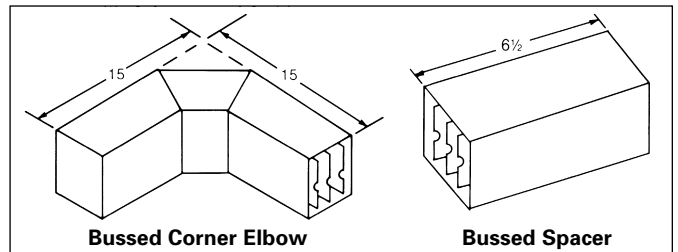
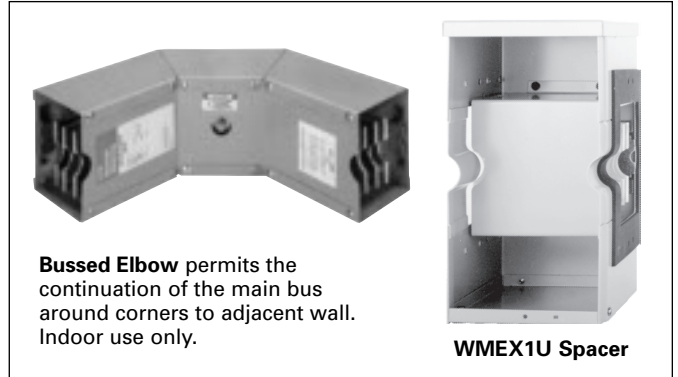
③ Stacks will accept equivalent Murray circuit breakers.

④ Order part number "FIFTHJAW" for field installable fifth jaw on single phase devices.

Meter Centers

Accessories: Modular & PAK Metering

| Description | Catalog Number | List Price \$ |
|--|----------------------------|----------------|
| Modular Metering Accessories | | |
| Single Bolt Joint, 1-Phase, 3-Wire, 1200A maximum | SBJ1 | 388.00 |
| Single Bolt Joint, 3-Phase, 4-Wire, 1200A maximum | SBJ4 | 427.00 |
| Indoor Bussed Elbow, 1-Phase, 3-Wire, 1200A maximum | BE1[®] | 1566.00 |
| Indoor Bussed Elbow, 3-Phase, 4-Wire, 1200A maximum | BE4[®] | 1689.00 |
| Outdoor Bussed Extension, 1-Phase, 3-Wire, 1200A maximum | WMEX1U | 930.00 |
| Outdoor Bussed Extension, 3-Phase, 4-Wire, 1200A maximum | WMEX4U | 1159.00 |
| Pass-Thru Bushing for use with Underground Pull Box | WMMBK[®] | 230.00 |
| End Closure Plate | WMEP[®] | 45.50 |
| 3/4" HR Type Hub for Service Entrance Module | ECHR075 | 42.50 |
| 1" HR Type Hub for Service Entrance Module | ECHR100 | 42.00 |
| 1-1/4" HR Type Hub for Service Entrance Module | ECHR125 | 42.00 |
| 1-1/2" HR Type Hub for Service Entrance Module | ECHR150 | 42.50 |
| 2" HR Type Hub for Service Entrance Module | ECHR200 | 74.00 |
| 2" HV Type Hub for Service Entrance Module | ECHV200 | 97.00 |
| 2-1/2" HV Type Hub for Service Entrance Module | ECHV250 | 133.00 |
| 3" HV Type Hub for Service Entrance Module | ECHV300 | 193.00 |
| 3-1/2" HV Type Hub for Service Entrance Module | ECHV350 | 291.00 |
| 4" HV Type Hub for Service Entrance Module | ECHV400 | 385.00 |
| PAK Metering Accessories | | |
| 2" HD Type Hub for New Uni-PAK | EC56854[®] | 178.92 |
| 2-1/2" HD Type Hub for New Uni-PAK | EC56855[®] | 178.92 |
| 3" HD Type Hub for New Uni-PAK | EC56856 | 178.92 |
| 3-1/2" HD Type Hub for New Uni-PAK | EC56857 | 263.06 |
| 4" HD Type Hub for New Uni-PAK | EC56858 | 119.28 |
| Closure Plate for HD Hub Opening | EC56933S | 76.68 |
| Nema Stud Kit for New 400A Uni-PAK | NSK400 | 167.00 |
| Nema Stud Kit for New 600A Uni-PAK | NSK600 | 220.00 |
| Parallel Lug Kit for New 400A Uni-PAK (2) 250 kcmil | PLK400 | 195.00 |
| Parallel Lug Kit for New 600A Uni-PAK (3) 250 kcmil | PLK600 | 195.00 |



| Description | Catalog Number | List Price \$ |
|---|---------------------------|---------------|
| Universal PAK & MOD Access. | | |
| Sealing Ring- Snap-on, Stainless Steel | SRSS | 19.38 |
| Sealing Ring- Screw-type, Stainless Steel | SRSW | 25.03 |
| Sealing Ring- Snap-on, Aluminum | SRSTD | 17.47 |
| 2-pole Bank Filler Plate [®] | ECCP1U | 15.10 |
| MP 125A Max Breaker [®] | | |
| 4-pole Blank Filler Plate [®] | ECCP2U | 15.10 |
| MPP 225A Max Breaker [®] | | |
| 4-pole Blank Filler Plate [®] | ECCP3U[®] | 15.10 |
| With MP (2" wide) 125A breaker installed | | |
| Plastic Cover Plate- for ring style socket | ECPP | 20.00 |
| Plastic Cover Plate- for ringless style socket | ECCP3U | 15.10 |
| Meter By-pass Jumper 4&5 Jaw | ECJS[®] | 36.74 |
| 5th Jaw Kit for Modular Metering - 3, 6, 9 O'clock Positions | ECMM5J[®] | 25.00 |
| Ins. 5th Jaw Kit for Modular Metering - 3, 6, 9 O'clock Positions | ECMM5J[®] | 22.00 |

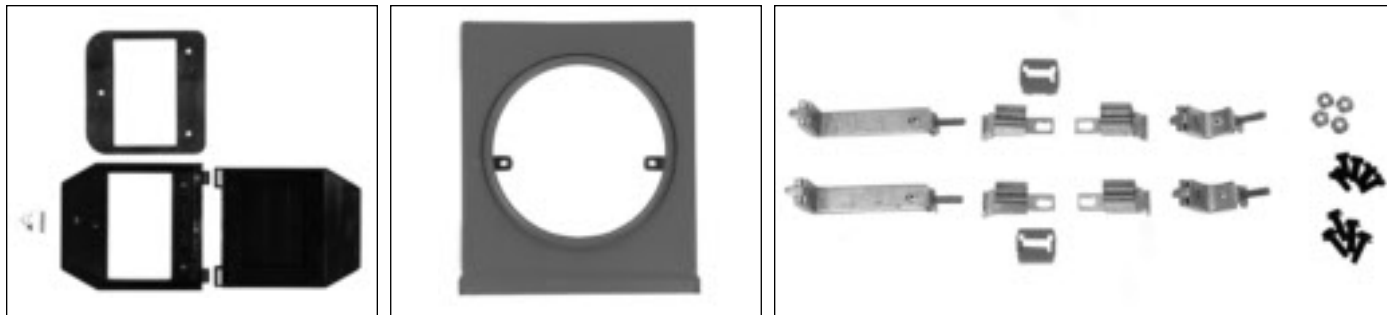
① For use on 125 & 200Amp sockets only.
 ② One pass thru bushing supplied with each WMMB device
 ③ When adding modular metering modules to old installation, replace metal end closure plate with plastic end closure plate.
 ④ Item is a kit consisting of adapter plate & RX type hub.

⑤ For use on old and new style pak units.
 ⑥ Filler plate is not needed for NEW PAK.
 ⑦ (2) Required per 1-Phase meter socket. Residential type ring and ringless- 200amp max. Meter cannot be installed while in use. For use with ECPP cover plate.

⑧ Add "12" suffix for 12" elbow (BE112, BE412).
 ⑨ Modular units only.

Meter Centers

Modular Metering Replacement Parts Kits



- Eliminate the need for Special orders
- Stocked and ready for shipment
- All kits come with appropriate hardware and instruction sheet for safe installation
- Packages are stocked in specified Quantities and cannot be substituted or changed

3

METERING

| Part Number | Description | Contents | List Price \$ |
|--------------------------------------|--|--|---------------|
| Breaker Covers | | | |
| GMBC1 | Group Metering Breaker Cover - 125Amp Positions | Top and bottom black plastic breaker cover pieces, gasket, and locking clip | 10.00 |
| GMBC2 | Group Metering Breaker Cover - 200Amp Positions | | 6.00 |
| Meter Covers^① | | | |
| MMCVR1 | Modular Metering Tenant Covers 125A Ring Style | 1 Ringstyle meter cover welded with support brackets and painted | 10.00 |
| MMCVR1R | Modular Metering Tenant Covers 125A Ringless | 1 Ringless style meter cover welded with support brackets and painted | 10.00 |
| MMCVR2 | Modular Metering Tenant Covers 200A Ring Style | 1 Ringstyle meter cover welded with support brackets and painted | 10.00 |
| MMCVR2R | Modular Metering Tenant Covers 200A Ringless | 1 Ringless style meter cover welded with support brackets and painted | 10.00 |
| MMCVRSCR | Modular Metering Meter Cover Screws | 10 per bag | 10.00 |
| MMCVRLOW | Modular Metering Lower Tenant Cover (neutral access cover) | 1 Cover and screw per bag | 14.00 |
| PAKMCVRR | Tenant cover for Ring Style Uni-Pak Meter Center | 1 Ringstyle meter cover welded with support brackets and painted | 58.00 |
| PAKMCVRL | Tenant cover for RingLess Uni-Pak Meter Center | 1 Ringless style meter cover welded with support brackets and painted | 58.00 |
| Meter Socket/Breaker Mounting | | | |
| MMBMT1 | Modular Metering Breaker Mounting S/A 125A | Interior only Jaws, straps, and hardware | 14.00 |
| MMSCK1 | Modular Metering Meter Socket Assembly 125A | | 22.00 |
| MMBMT2 | Modular Metering Breaker Mounting S/A 200A | | 24.00 |
| MMSCK2 | Modular Metering Meter Socket Assembly 200A | | 22.00 |
| Loose Parts Kits | | | |
| MMPK11 | Modular Metering Loose Parts Kit 125A 1 PHASE | All loose screw bags, labels, instruction sheet and aluminum sealing ring (No SBJ) | 16.00 |
| MMPK13 | Modular Metering Loose Parts Kit 125A 3 PHASE | | 16.00 |
| MMPK21 | Modular Metering Loose Parts Kit 200A 1 PHASE | | 16.00 |
| MMPK23 | Modular Metering Loose Parts Kit 200A 3 PHASE | | 16.00 |

① Order CCK (200A) or CCK1 (125A) for ring to ringless conversion kit.

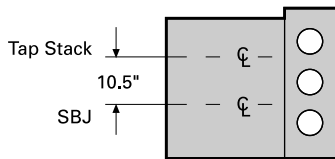
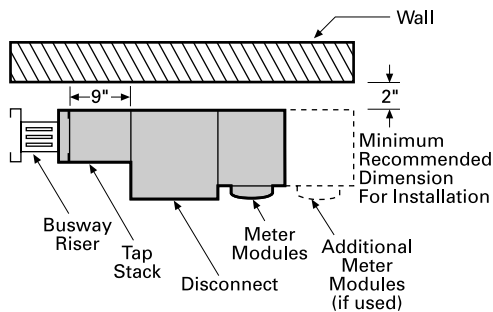
Meter Centers

Modular Metering: Bus Duct Modules

Busway Application

Siemens offers a direct busway to modular metering connection. When six or less disconnects are present a connection can be made directly to the meter module. If a main is needed Siemens offers breaker options up to 1200amps and switch options up to 800amps.

All breaker and switch modules are available with up to 100,000 AIC ratings, are UL listed, and carry a Nema 1 (indoor) rating. Common service entrance modules are listed to the right. Lead time may apply. See below for spacing considerations.



| Common Bus Duct Units (1) | | | | | |
|---------------------------|-------|----------------|----------------|----------------|---------------|
| Amperes (3) | Phase | Mechanism Type | Catalog Number | AIC Rating (2) | List Price \$ |
| 400 | 1 | JXD2 Breaker | MC4BD | 65,000 | 4777.00 |
| | 3 | | MC44BD | | 8017.00 |
| | 1 | Class T Fuse | MS4UBD | 100,000 | 2679.00 |
| | 3 | | MS44UBD | | 5023.00 |
| 600 | 1 | LXD6 Breaker | MC6BD | 65,000 | 7250.00 |
| | 3 | | MC64BD | | 12062.00 |
| | 1 | Class T Fuse | MS6UBD | 100,000 | 5231.00 |
| | 3 | | MS64UBD | | 9336.00 |
| 800 | 1 | JXD6 Breaker | MC8BD | 65,000 | 12264.00 |
| | 3 | | MC84BD | | 15773.00 |
| | 1 | Class T Fuse | MS8UBD | 100,000 | 8630.00 |
| | 3 | | MS84UBD | | 16254.00 |
| 1000 | 1 | NXD6 Breaker | MC10BD | 65,000 | 13348.00 |
| | 3 | | MC104BD | | 19686.00 |
| 1200 | 1 | NXD6 Breaker | MC12BD | 65,000 | 19445.00 |
| | 3 | | MC124BD | | 29152.00 |

1 - All devices are build to order. Tap stack & SBJ sold separately.
 2 - 100K AIC Breaker Units available - contact sales office for more information.
 3 - Alternate amperages for breaker modules available. Contact sales office for more info.

Tap Stacks[Ⓞ]

Tap stacks save space by connection Siemens' Sentron Busway directly to specially-designed Siemens circuit breaker, switch, or tap box modules. Common modules are listed above. Tap stacks require end-user to purchase an additional single bolt joint coupler and are for indoor use on end-feed applications only.



For inches / millimeters conversion, see Application Data section.

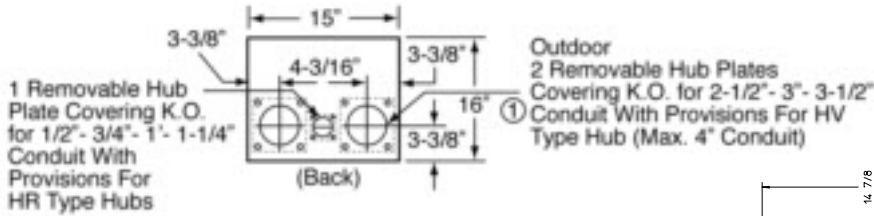
[Ⓞ] Tap stacks are produced with the busway. Contact sales office for more information.

Meter Centers

Modular Metering: Main Switch Service Entrance Modules - Knockout Diagrams

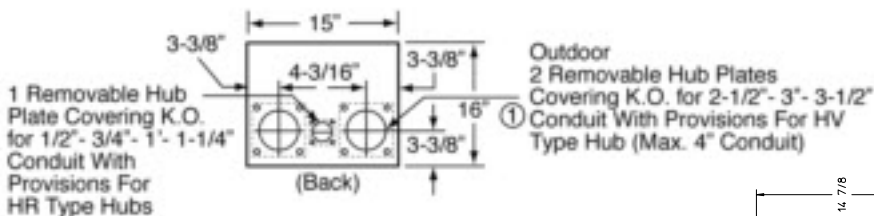
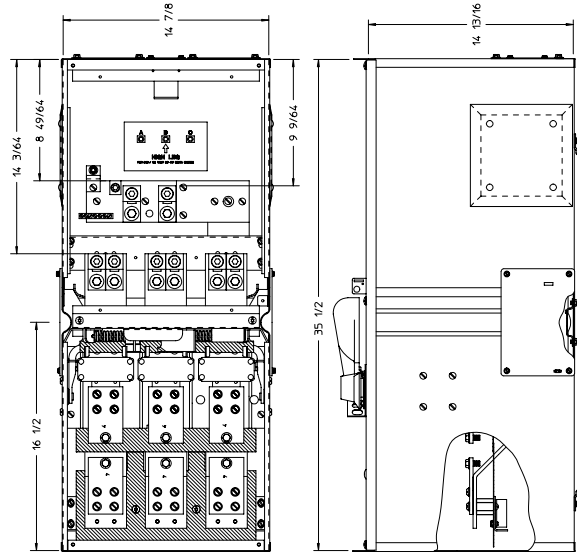
Installation Dimensions

No knockouts on sides of any modules.



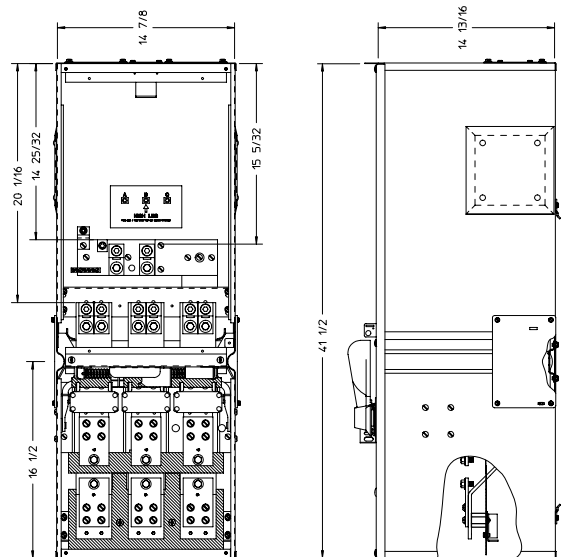
A1A

| |
|----------------|
| Catalog Number |
| WMS4U |
| WMS44U |



A1B

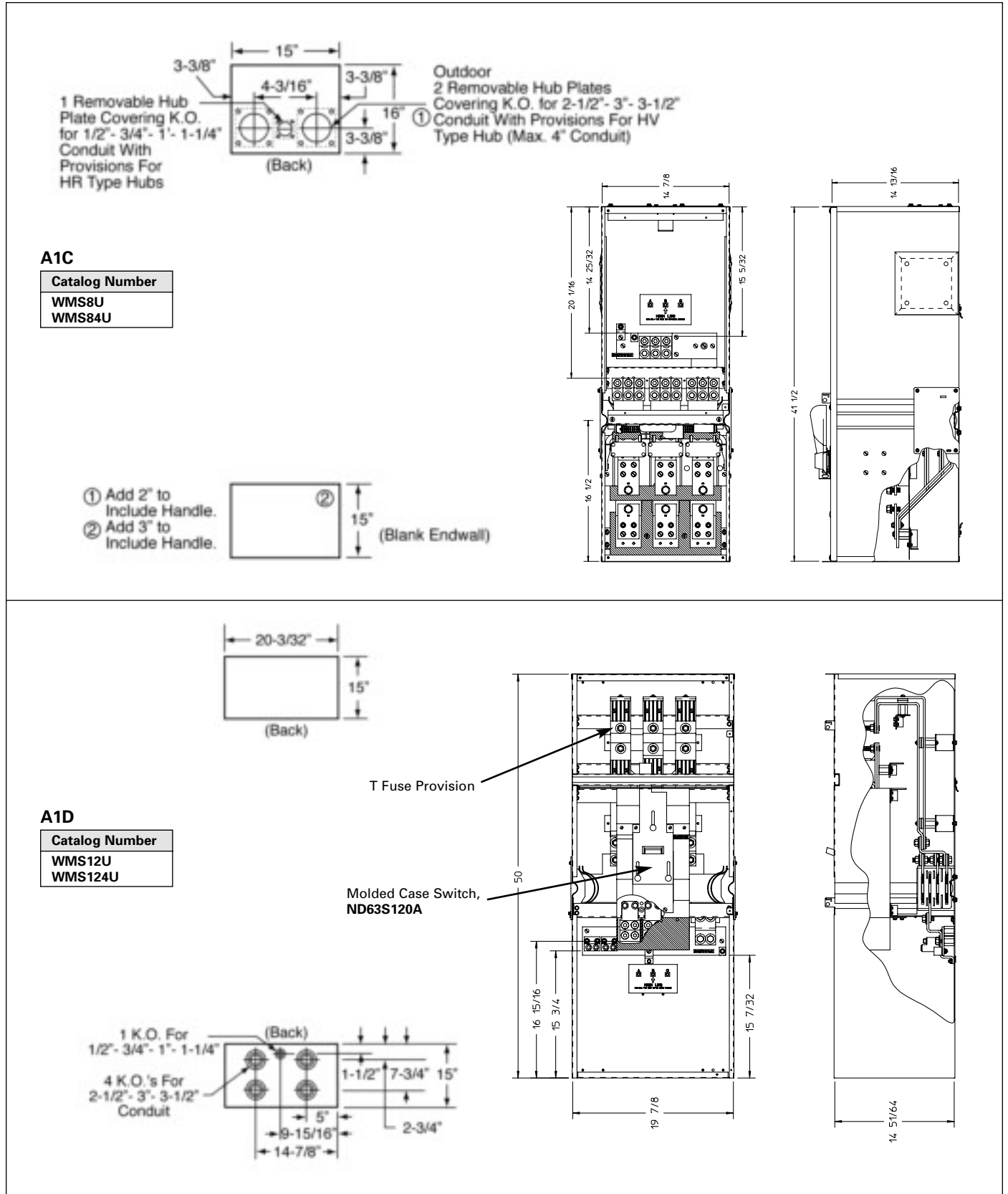
| |
|----------------|
| Catalog Number |
| WMS6U |
| WMS64U |



For inches / millimeters conversion, see Application Data section.

Meter Centers

Service Entrance Modules: Main Switch - Knockout Diagrams



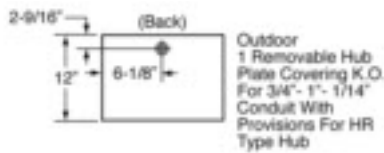
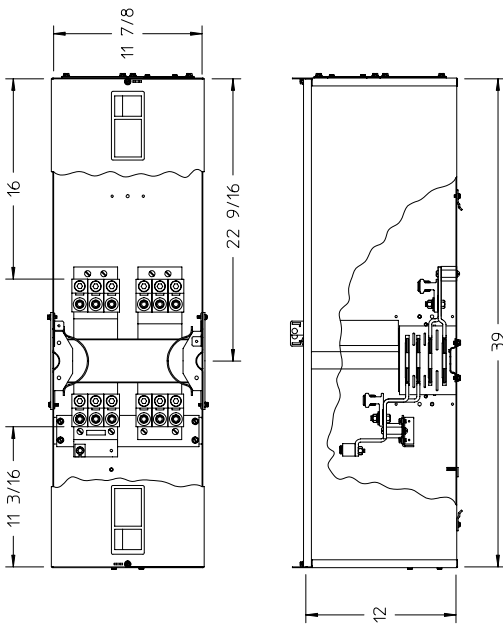
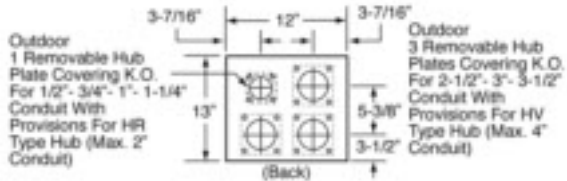
For inches / millimeters conversion, see Application Data section.

Meter Centers

Modular Metering: Tap Box & Main Switch Modules - Knockout Diagrams

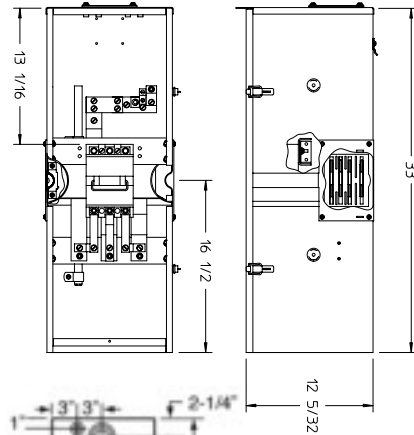
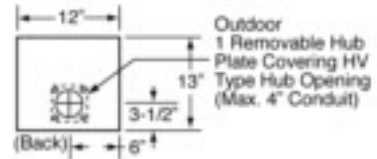
A2

| Catalog Number |
|----------------|
| WMTB8U |
| WMTB84U |



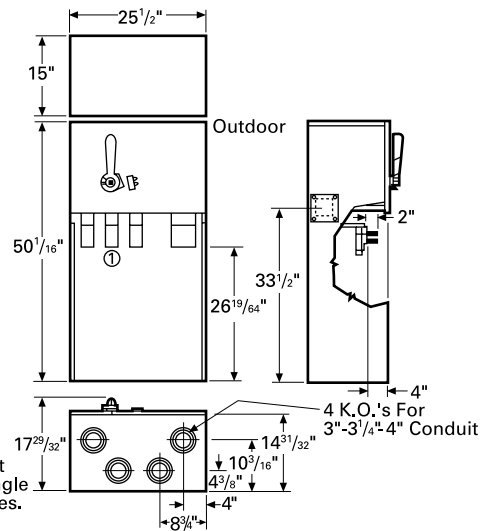
A3

| Catalog Number |
|----------------|
| WMP02U |
| WMP024U |



A2A

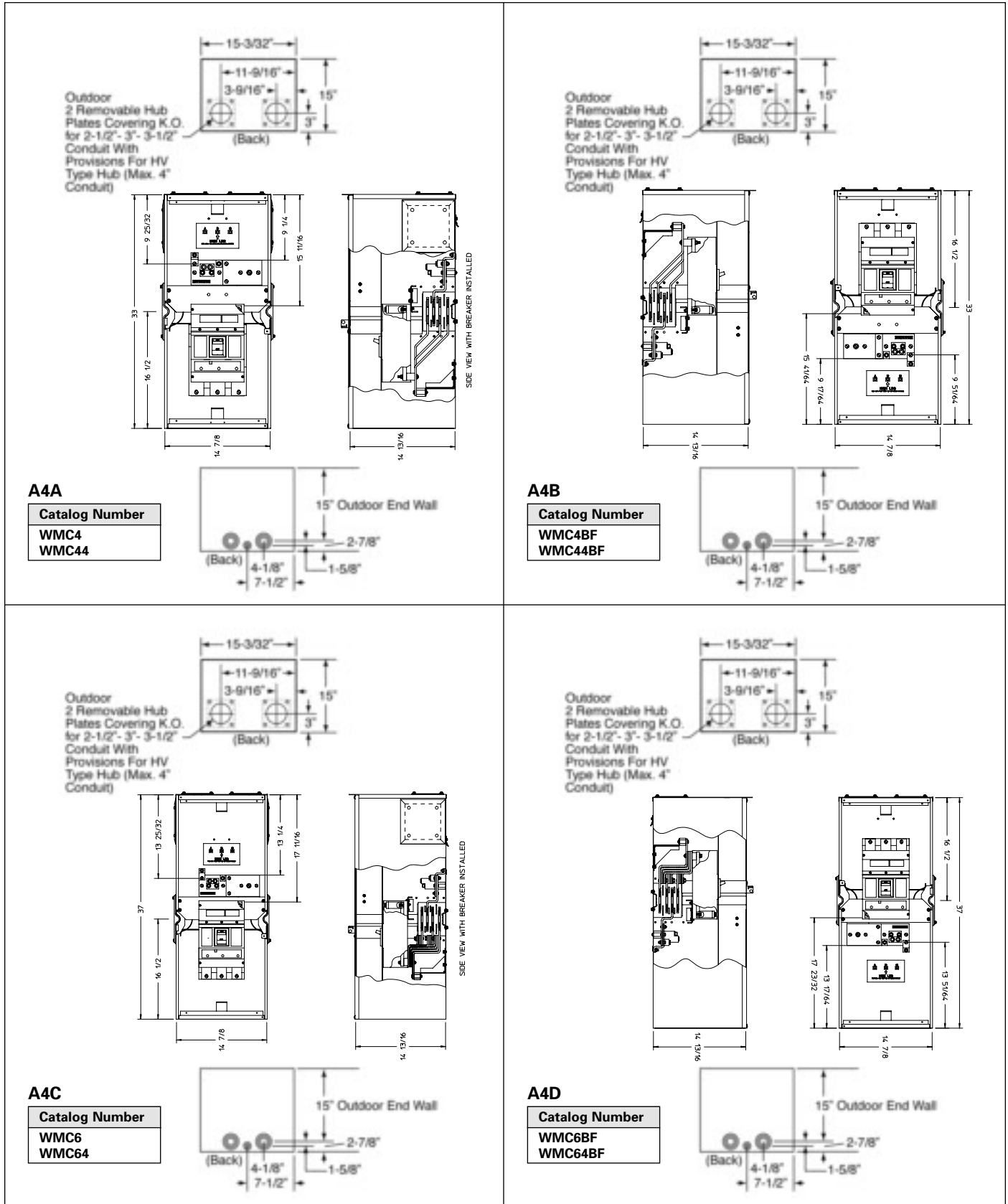
| Catalog Number |
|----------------|
| WMS4UPBU |
| WMS44UPBU |
| WMS6UPBU |
| WMS64UPBU |
| WMS8UPBU |
| WMS84UPBU |



For inches / millimeters conversion, see Application Data section.

Meter Centers

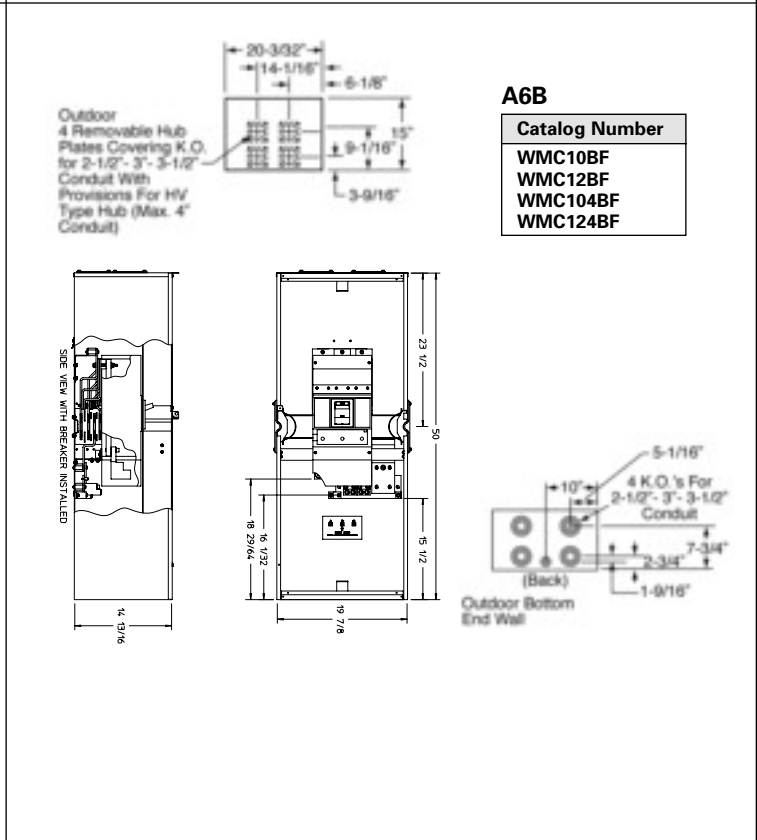
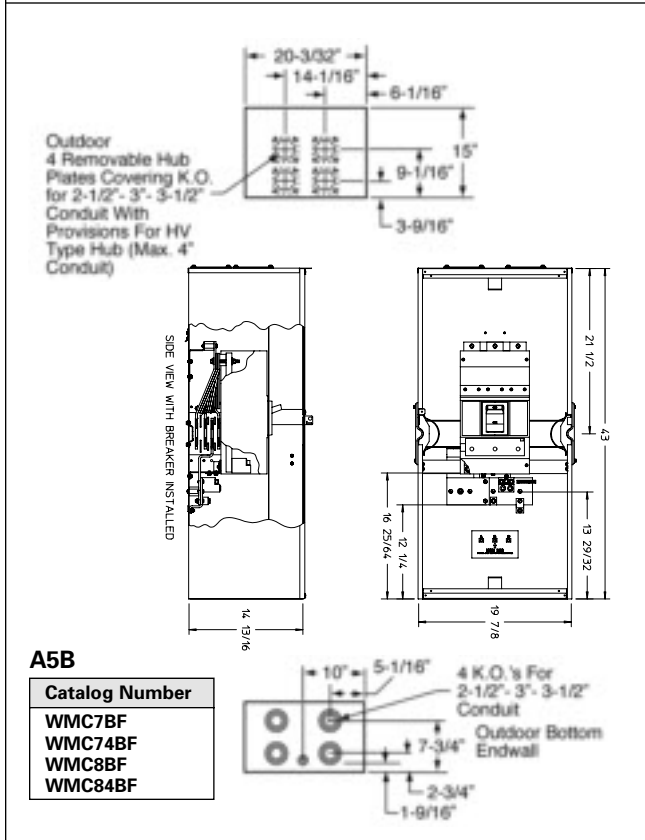
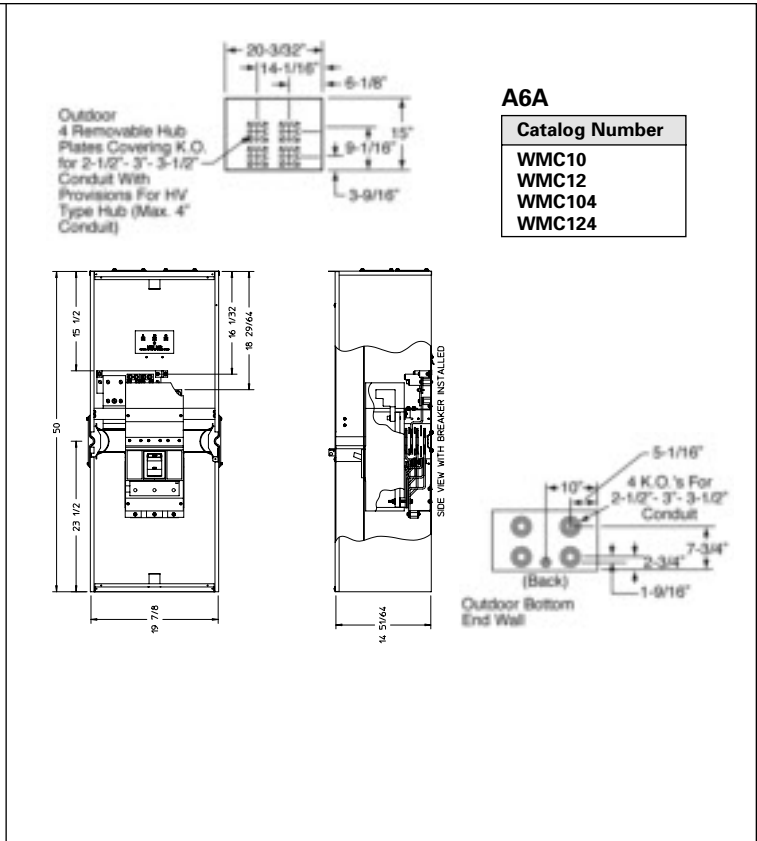
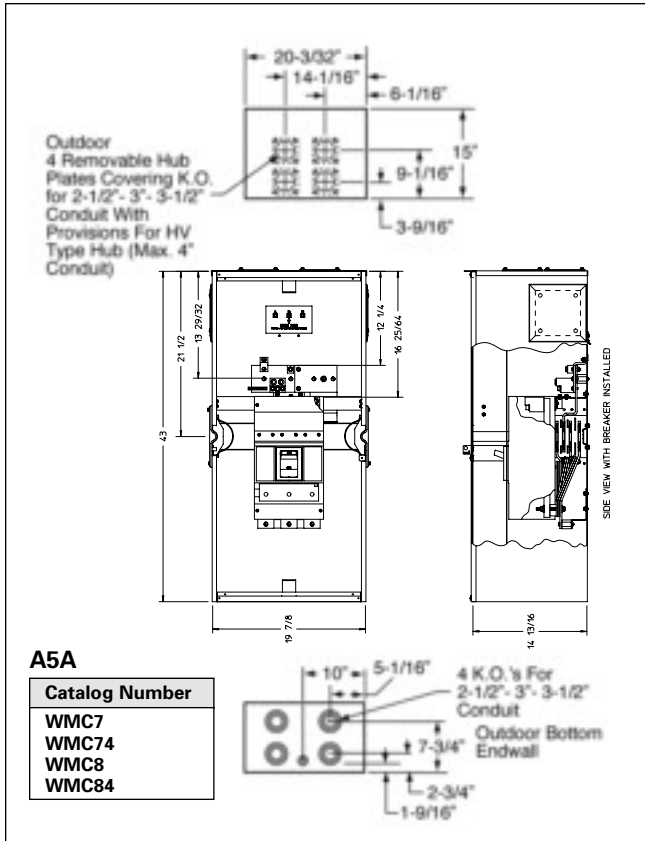
Service Entrance Modules: Main Circuit Breaker - Knockout Diagrams



For inches / millimeters conversion, see Application Data section.

Meter Centers

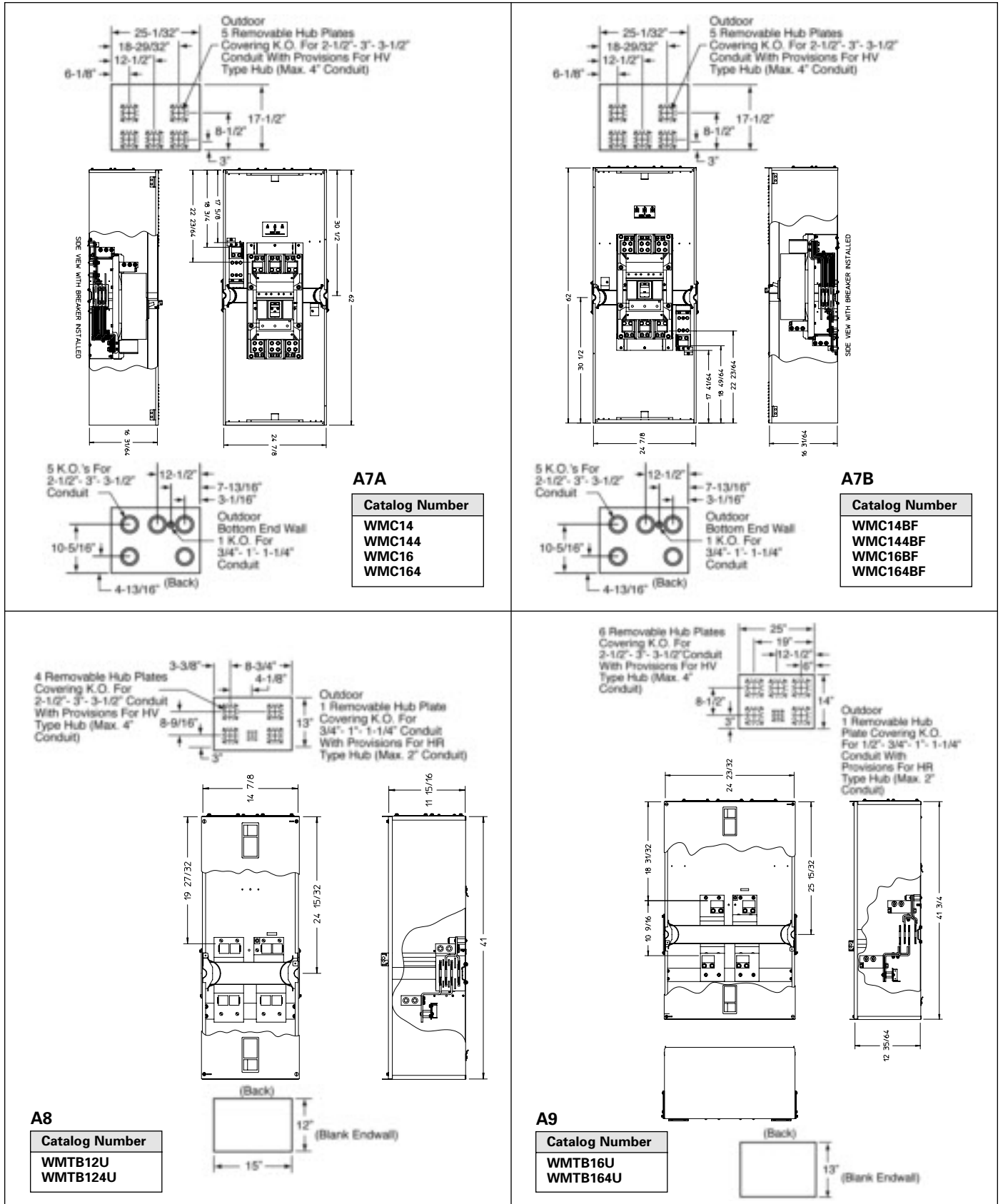
Modular Metering: Main Breaker Modules - Knockout Diagrams



For inches / millimeters conversion, see Application Data section.

Meter Centers

Modular Metering: Main Breaker & Tap Box Modules - Knockout Diagrams



METERING
3

Group Metering

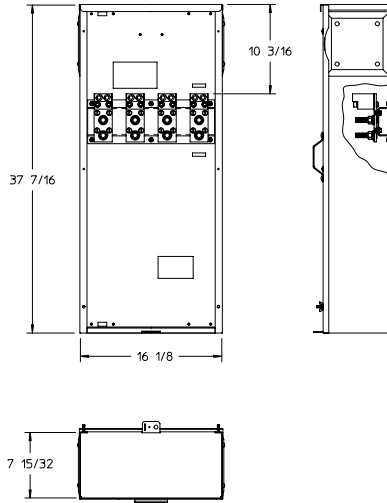
For inches / millimeters conversion, see Application Data section.

Meter Centers

Modular Metering: Pullbox & Lever Bypass Modules - Knockout Diagrams

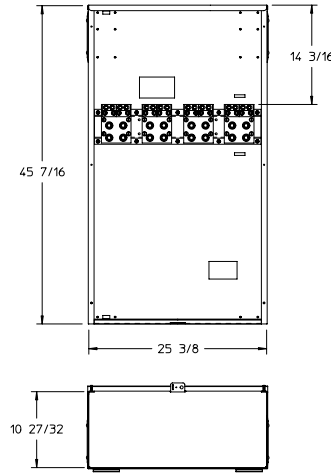
A10A

| Catalog Number |
|----------------|
| WMMB1400 |
| WMMB3400 |



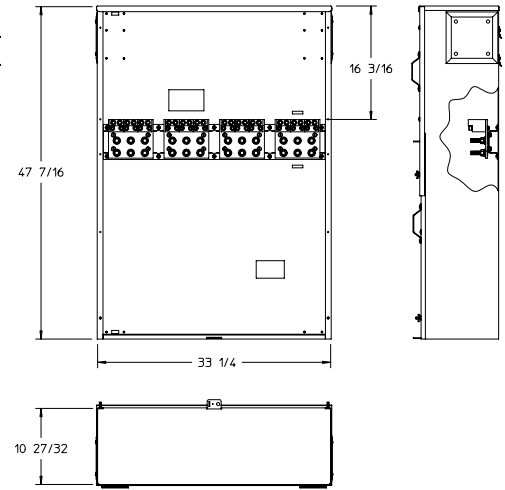
A10B

| Catalog Number |
|----------------|
| WMMB1800 |
| WMMB3800 |



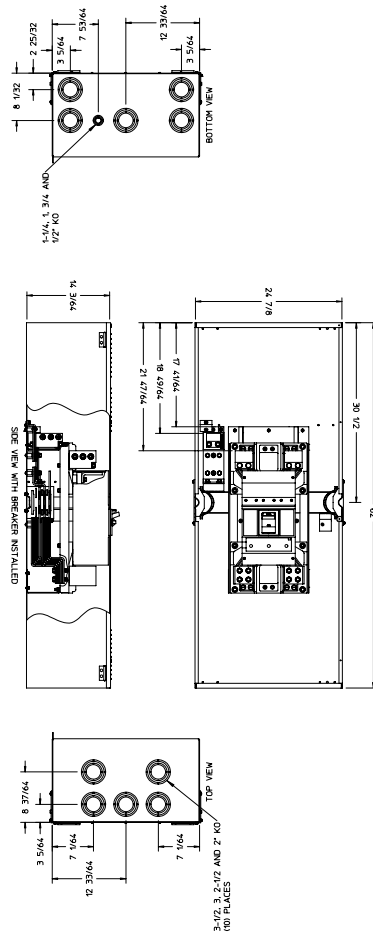
A10C

| Catalog Number |
|----------------|
| WMMB11200 |
| WMMB31200 |



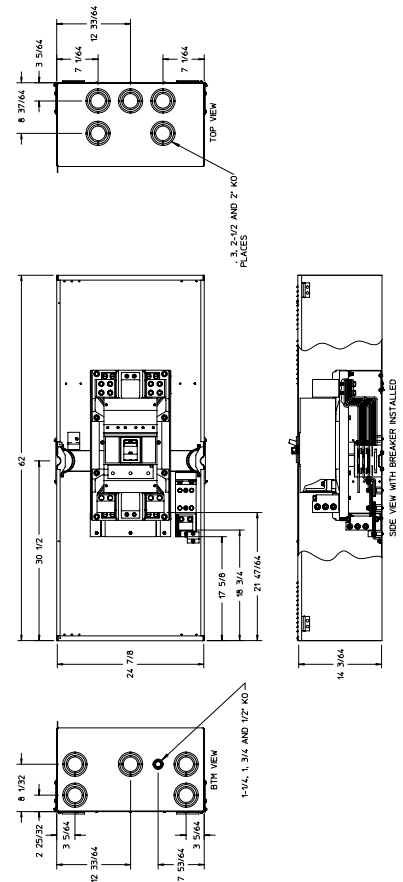
A30A

| Catalog Number |
|----------------|
| MC20 |



A30B

| Catalog Number |
|----------------|
| MC20BF |



For inches / millimeters conversion, see Application Data section.

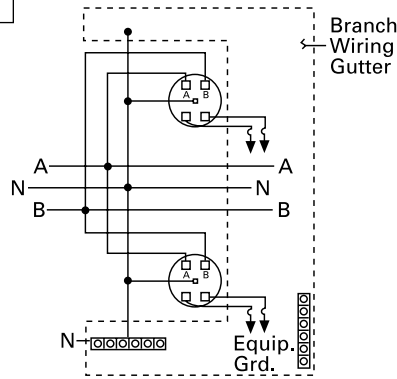
Meter Centers

Modular Metering: Residential Modules^① - Knockout Diagrams

Residential Meter Modules — 125A, 200A - 2 Gang

Wiring Diagrams

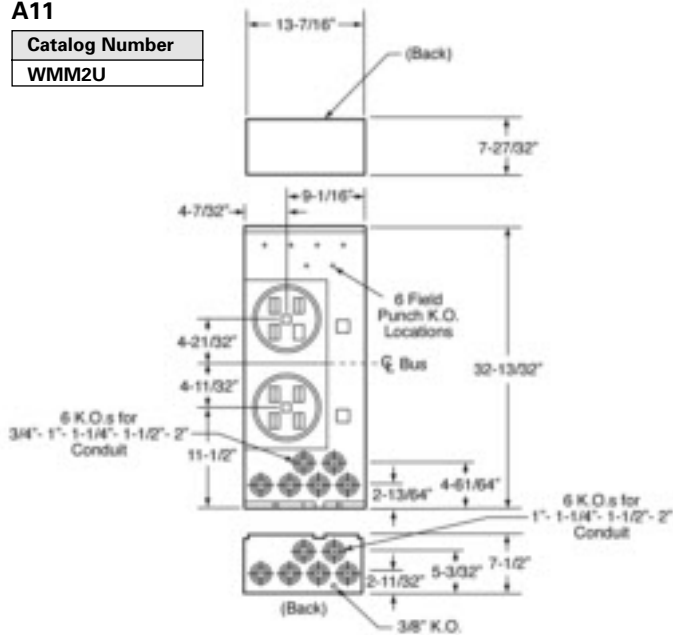
| |
|-----------------------------|
| Catalog Number [®] |
| WMM2U |
| WMM2200U |



Knockout Diagrams

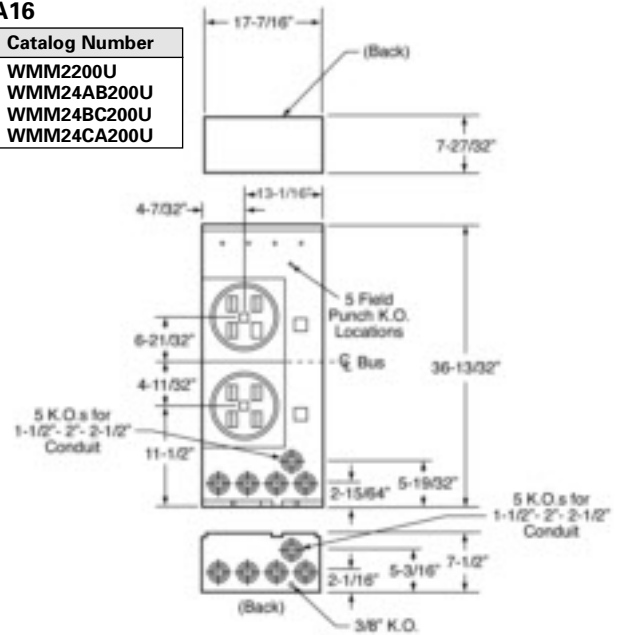
A11

| |
|----------------|
| Catalog Number |
| WMM2U |



A16

| |
|----------------|
| Catalog Number |
| WMM2200U |
| WMM24AB200U |
| WMM24BC200U |
| WMM24CA200U |



① Diagrams also applicable for suffix R, RC and RNJ products.

© Diagrams also applicable for 200A product.

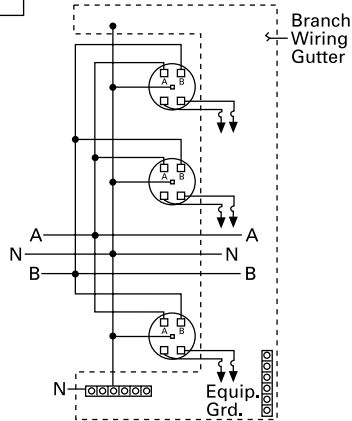
Meter Centers

Modular Metering: Residential Modules[Ⓢ] - Wiring & Knockout Diagrams

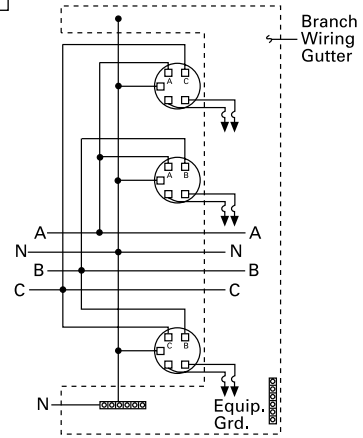
- 2-high modules — suffix indicates phases not used
- 4-high modules — suffix indicates phase with two sockets
- 5-high modules — suffix indicates phase with one socket in the module

Wiring Diagrams

| Catalog Number |
|----------------|
| WMM3U |
| WMM3200U |



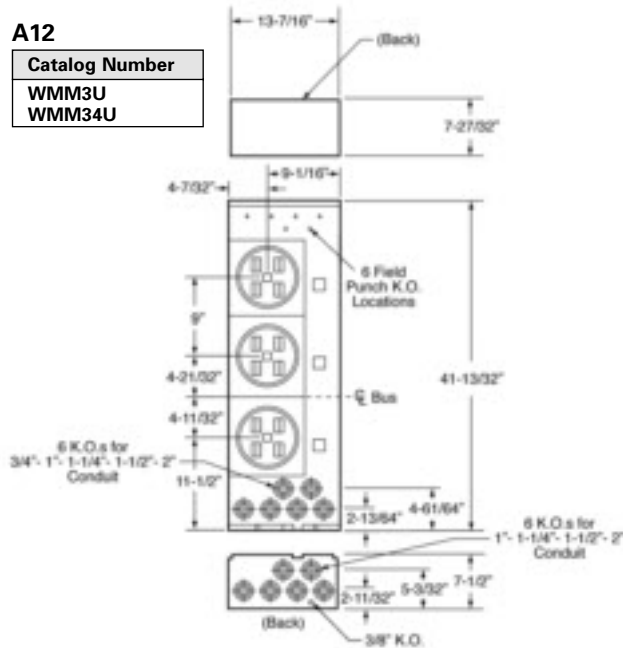
| Catalog Number |
|----------------|
| WMM34U |



Knockout Diagrams

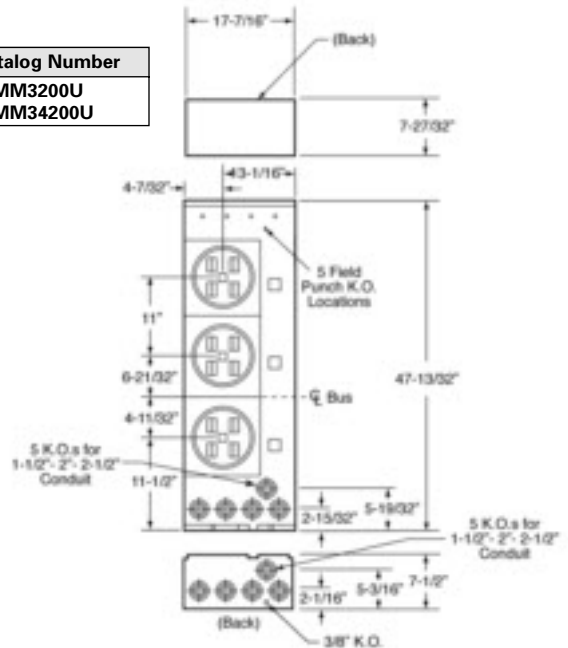
A12

| Catalog Number |
|----------------|
| WMM3U |
| WMM34U |



A17

| Catalog Number |
|----------------|
| WMM3200U |
| WMM34200U |



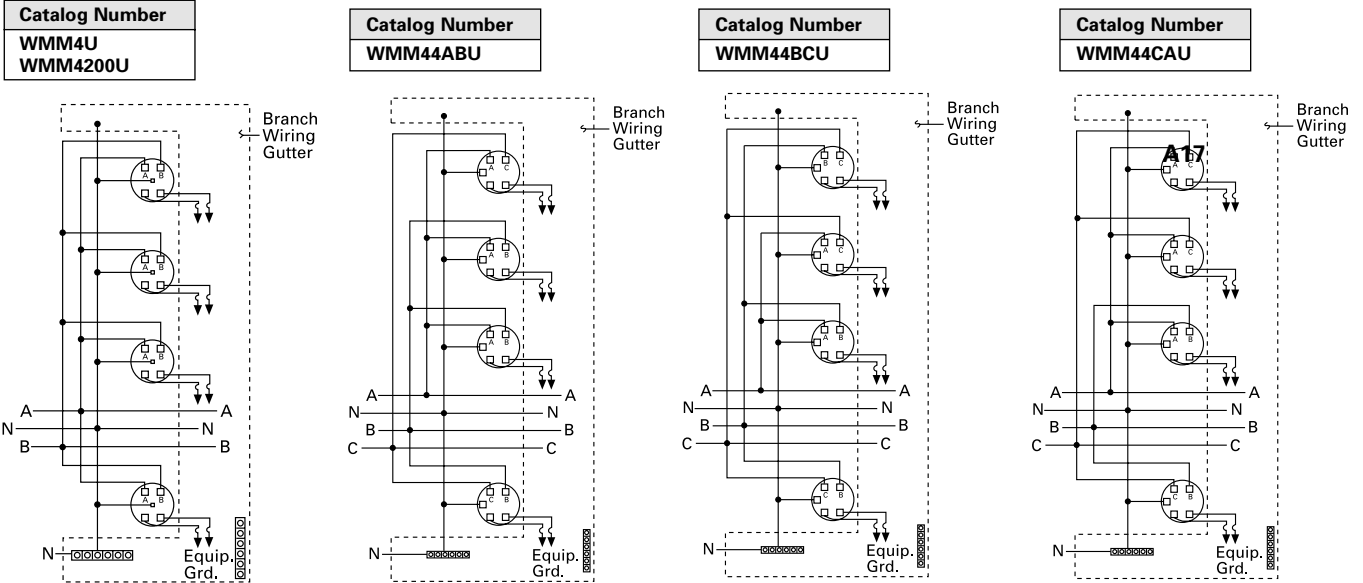
Ⓢ Diagrams also applicable for suffix R, RC and RNJ products.

Meter Centers

Modular Metering: Residential Modules^① - Wiring & Knockout Diagrams

- 2-high modules — suffix indicates phases not used
- 4-high modules — suffix indicates phase with two sockets
- 5-high modules — suffix indicates phase with one socket in the module

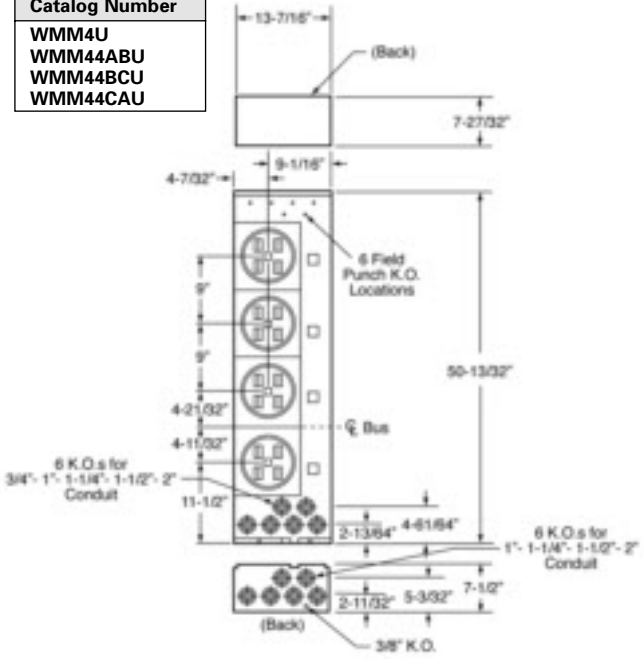
Wiring Diagrams



Knockout Diagrams

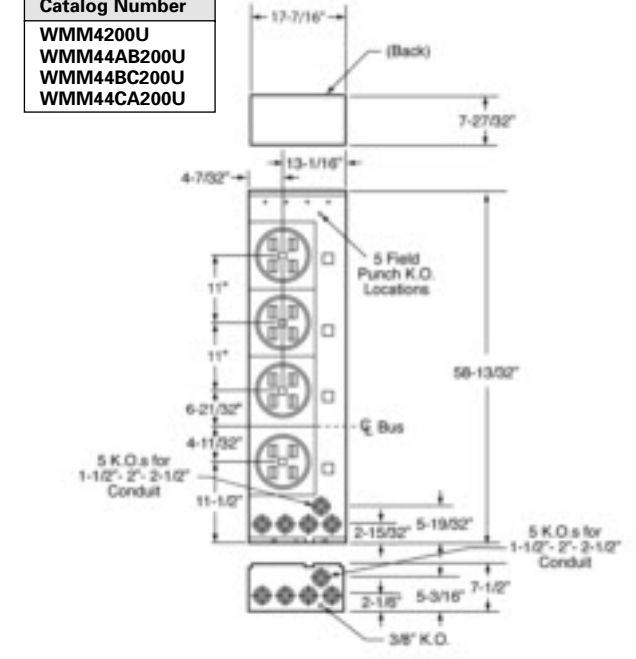
A13

| Catalog Number |
|----------------|
| WMM4U |
| WMM44ABU |
| WMM44BCU |
| WMM44CAU |



A18

| Catalog Number |
|----------------|
| WMM4200U |
| WMM44AB200U |
| WMM44BC200U |
| WMM44CA200U |



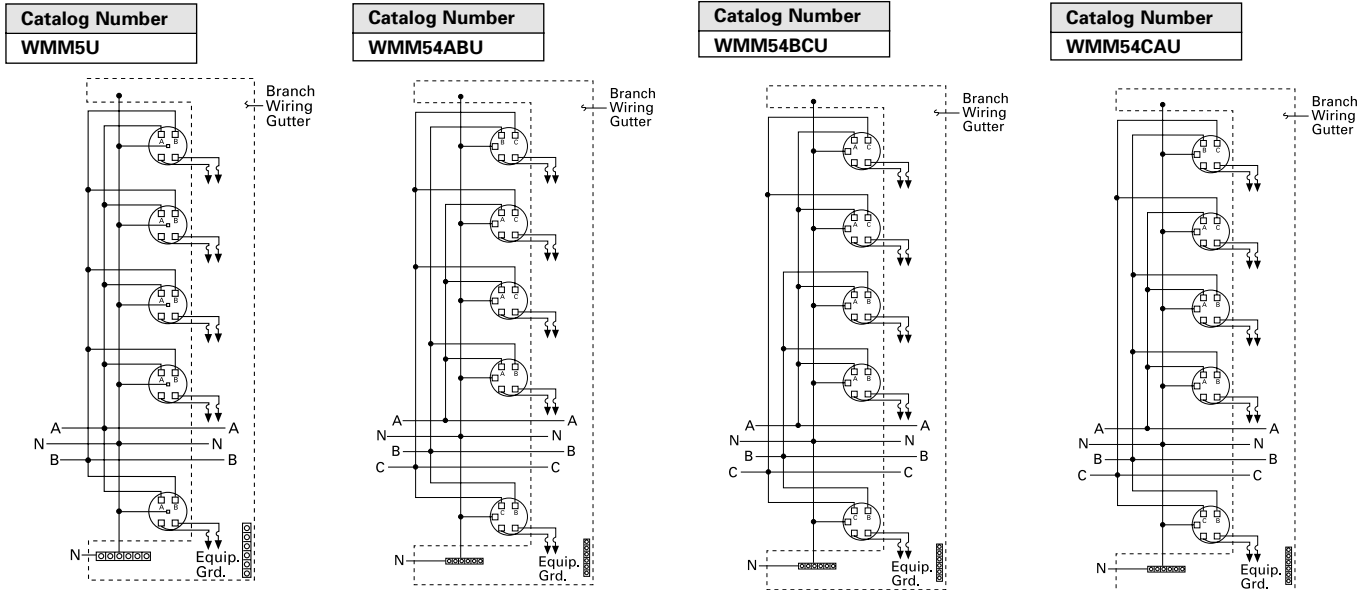
① Diagrams also applicable for suffix R, RC and RNJ products.

Meter Centers

Modular Metering: Residential Modules^① - Wiring & Knockout Diagrams

- 2-high modules — suffix indicates phases not used
- 4-high modules — suffix indicates phase with two sockets
- 5-high modules — suffix indicates phase with one socket in the module

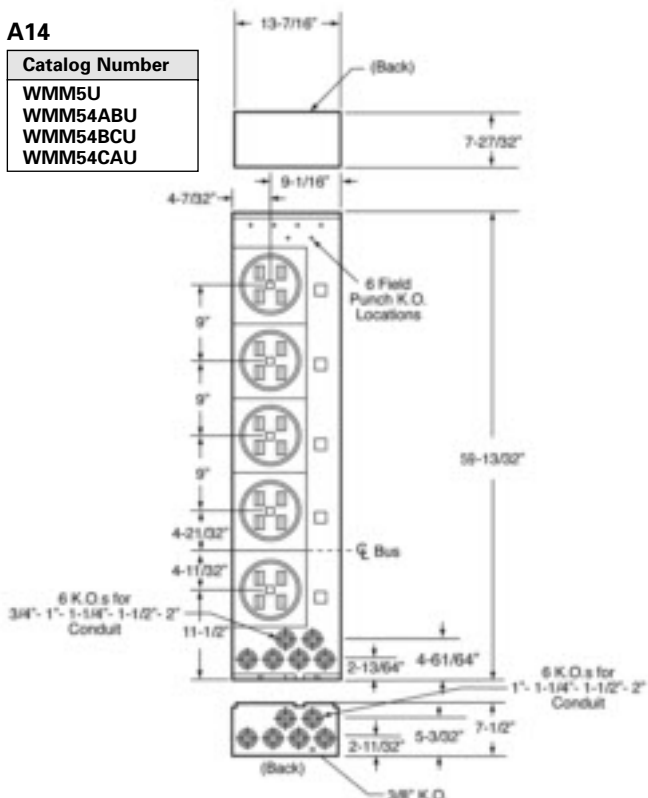
Wiring Diagrams



Knockout Diagrams

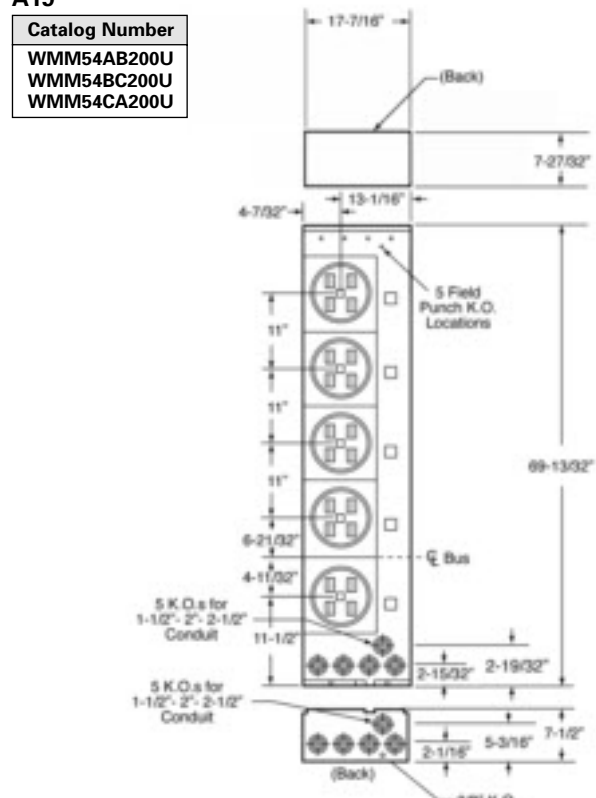
A14

| Catalog Number |
|----------------|
| WMM5U |
| WMM54ABU |
| WMM54BCU |
| WMM54CAU |



A19

| Catalog Number |
|----------------|
| WMM54AB200U |
| WMM54BC200U |
| WMM54CA200U |



For inches / millimeters conversion, see Application Data section.

① Diagrams also applicable for suffix R, RC and RNJ products.

Meter Centers

Modular Metering: Residential Modules - Wiring & Knockout Diagrams

Outdoor

3-Phase, 4-Wire, Incoming / 1-Phase, 3-Wire, Outgoing

All 3-phase 4-wire meter modules have the maximum possible degree of phase balancing.

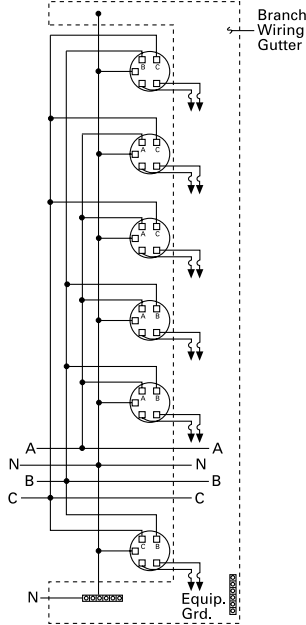
Single phase sockets are factory-connected to different phases for automatic load balancing.

Do not use single stator network meters.

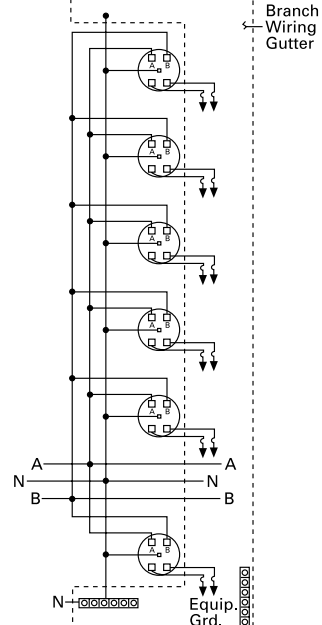
- 2-high modules — suffix indicates phases not used
- 4-high modules — suffix indicates phase with two sockets
- 5-high modules — suffix indicates phase with one socket in the module

Wiring Diagrams

Catalog Number
WMM64U



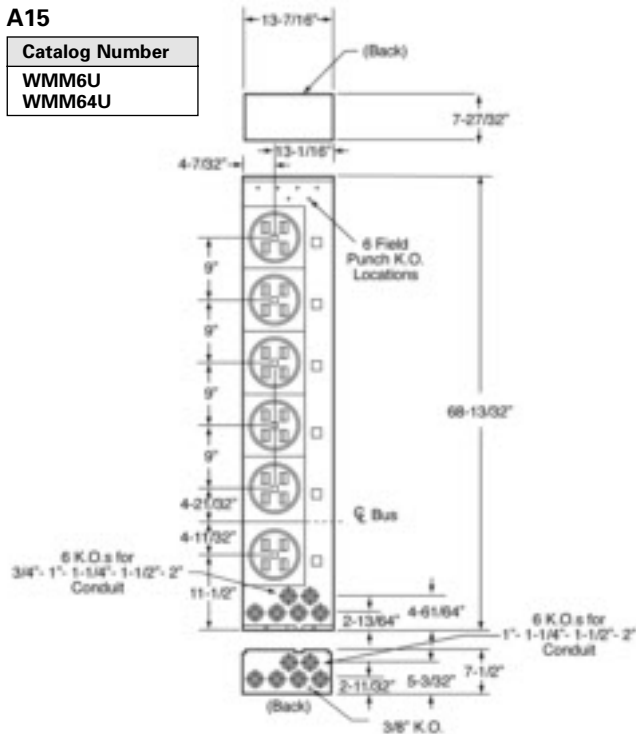
Catalog Number
WMM6U



Knockout Diagrams

A15

Catalog Number
WMM6U
WMM64U



For inches / millimeters conversion, see Application Data section.

Note: Diagrams also applicable for suffix R, RC and RNJ product.

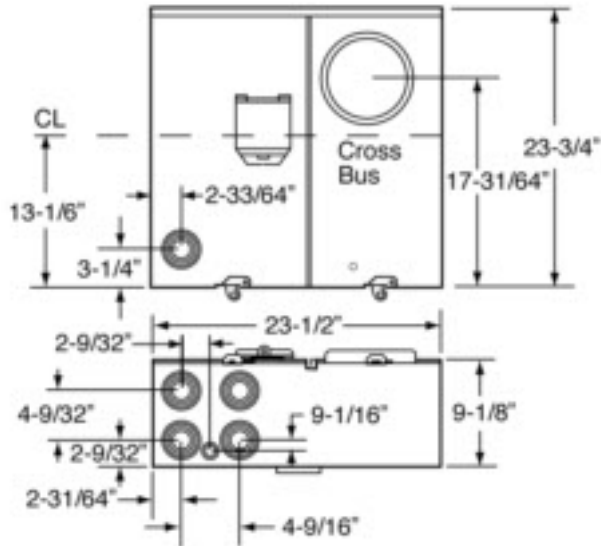
Meter Centers

Modular Metering: Lever Bypass Modules^① - Knockout Diagrams

For Lever Bypass Modules Only

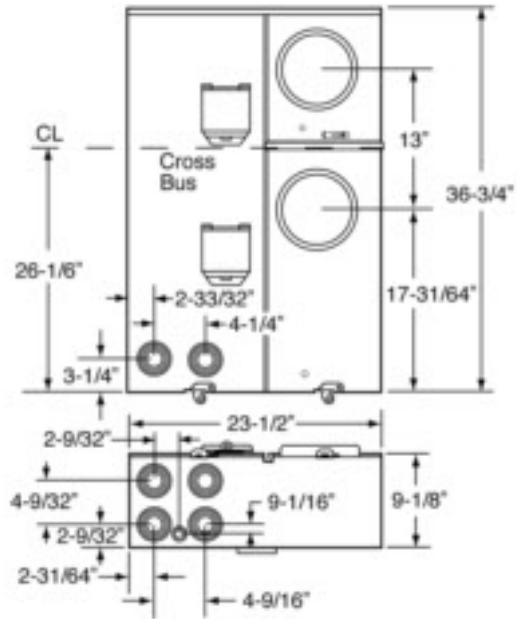
A20

| |
|----------------|
| Catalog Number |
| WXMM1XXXX |



A21

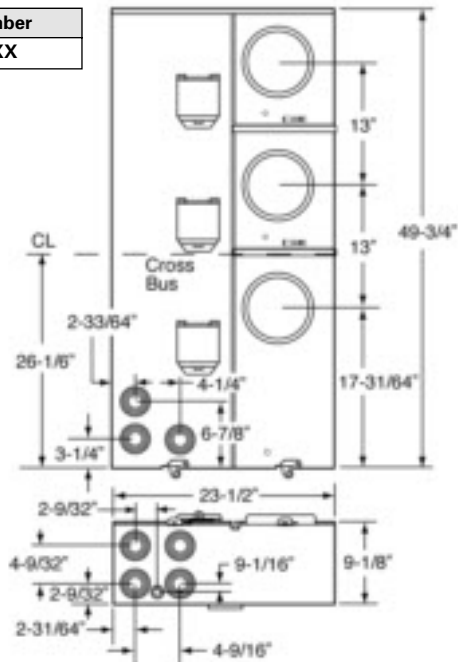
| |
|----------------|
| Catalog Number |
| WXMM2XXXX |



For Lever Bypass Modules Only

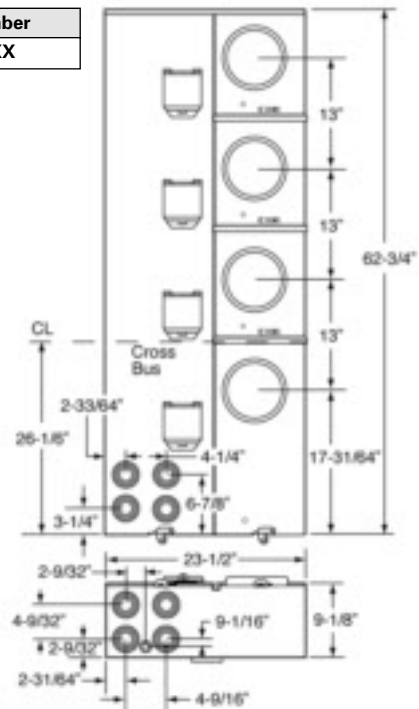
A22

| |
|----------------|
| Catalog Number |
| WXMM3XXXX |



A23

| |
|----------------|
| Catalog Number |
| WXMM4XXXX |

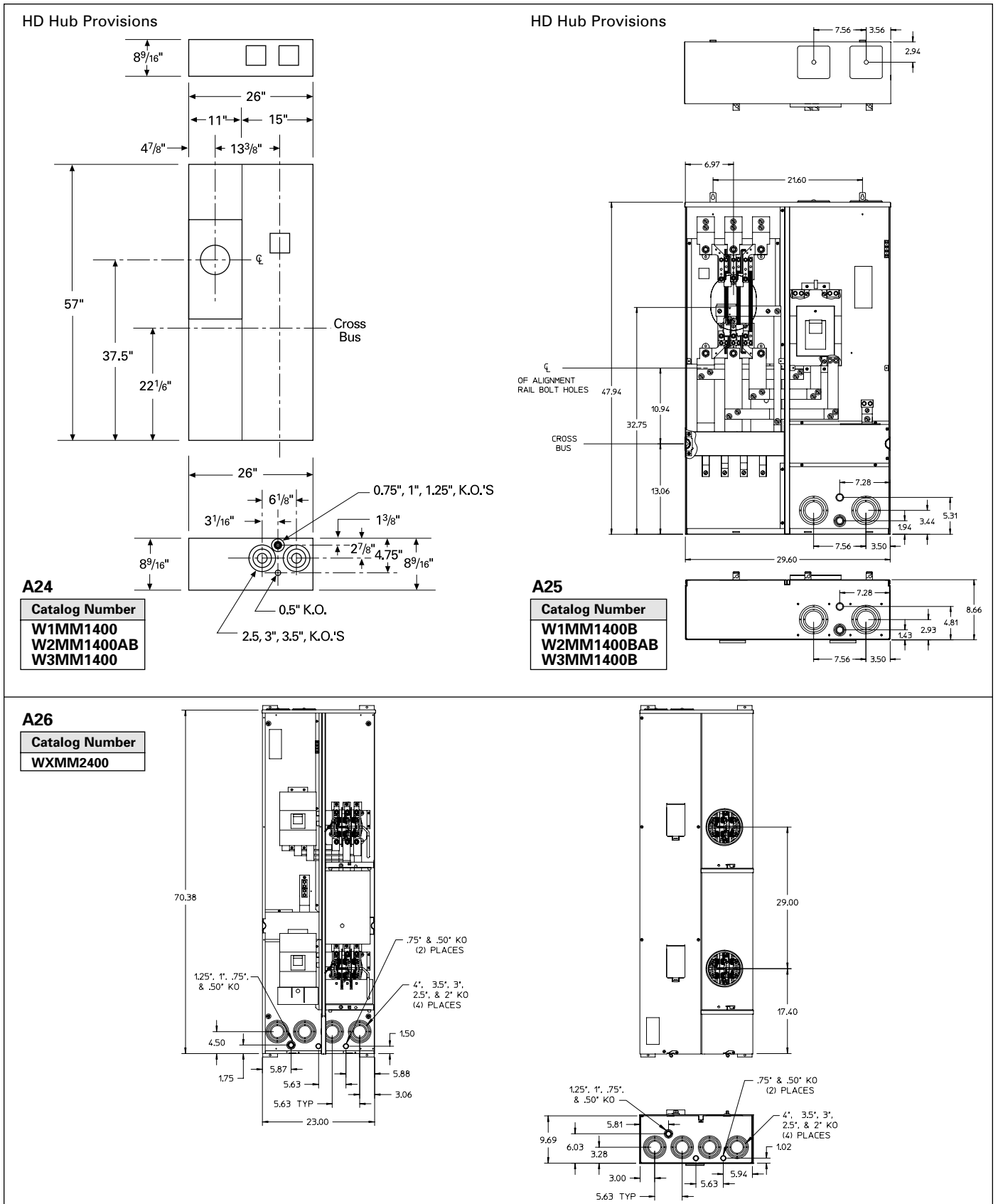


For inches / millimeters conversion, see Application Data section.

① See dimensions on page 3-64 for correct 3-Phase in/out 100A dimensions.

Meter Centers

Modular Metering: Lever Bypass Modules - Wiring & Knockout Diagrams

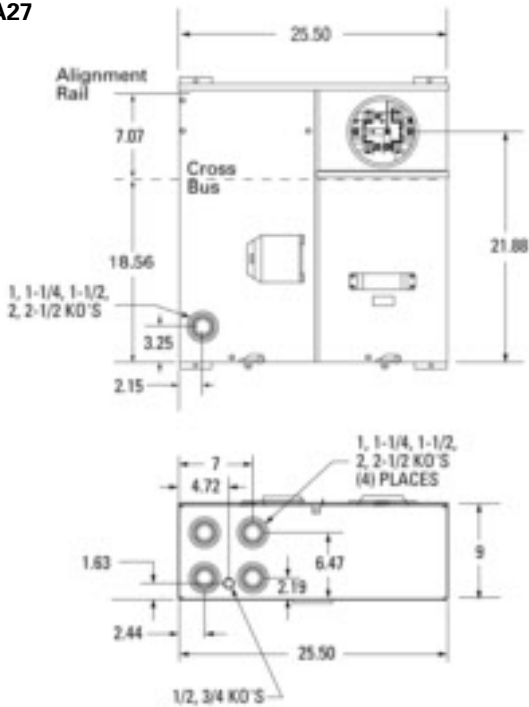


For inches / millimeters conversion, see Application Data section.

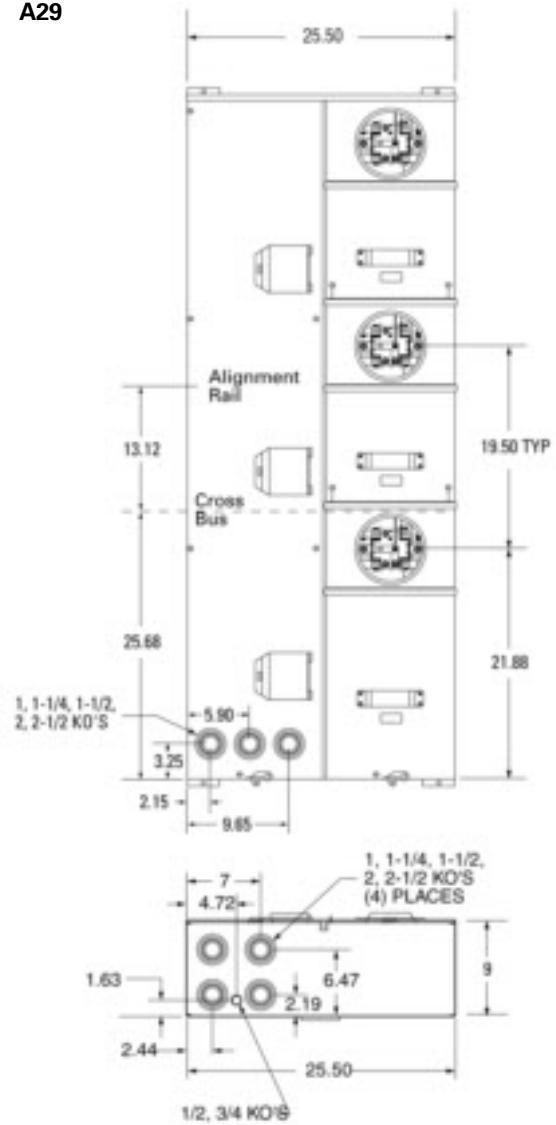
Meter Centers

Modular Metering: Test Block Bypass Modules - Wiring & Knockout Diagrams

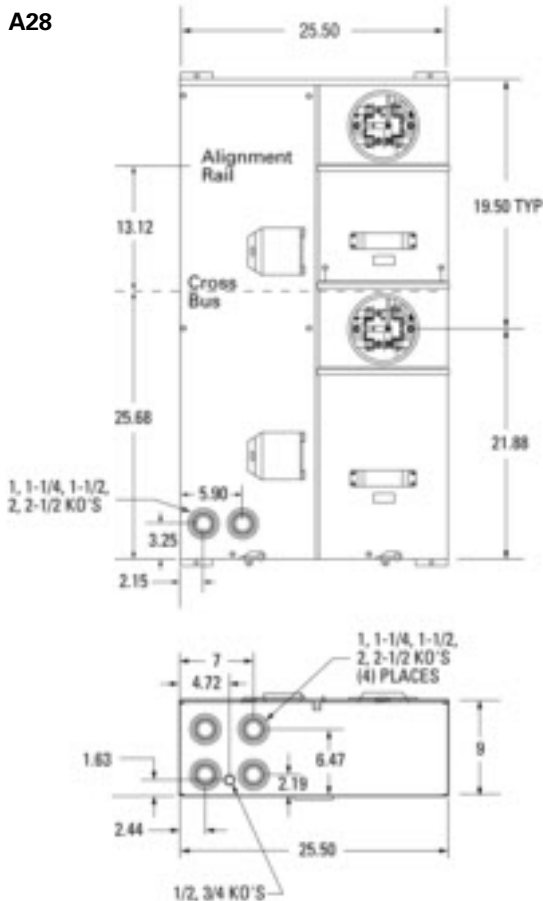
A27



A29



A28



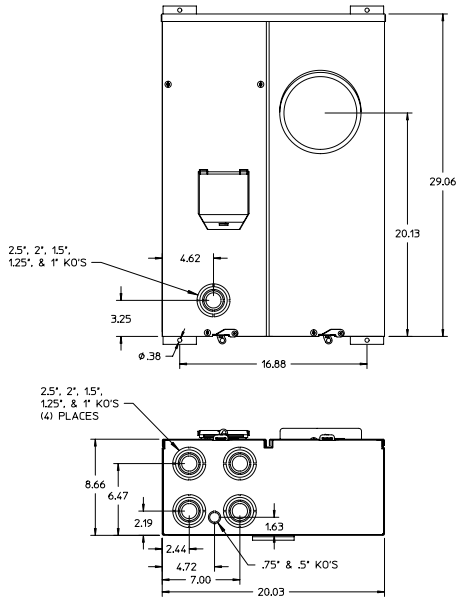
Note: KO diagrams apply to test block bypass modules only.

Meter Centers

Modular Metering: Test Block Bypass Modules - Wiring & Knockout Diagrams

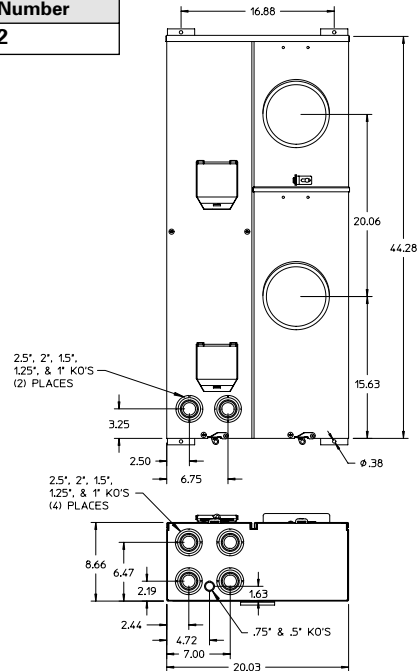
A31

Catalog Number
W3MM1



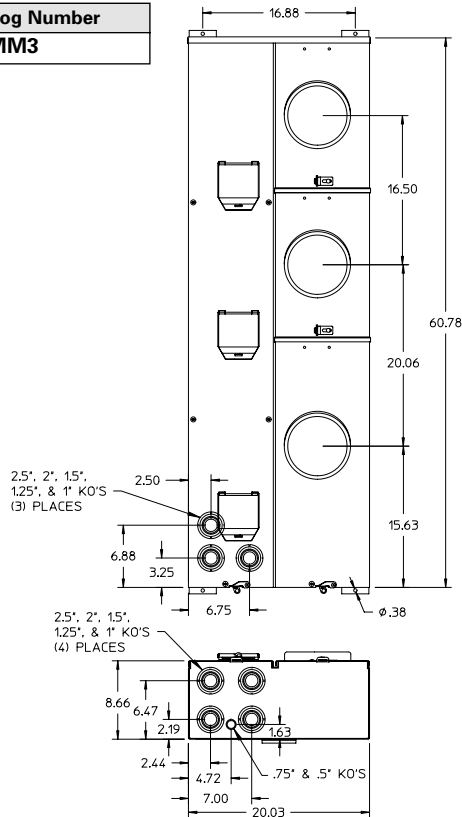
A32

Catalog Number
W3MM2



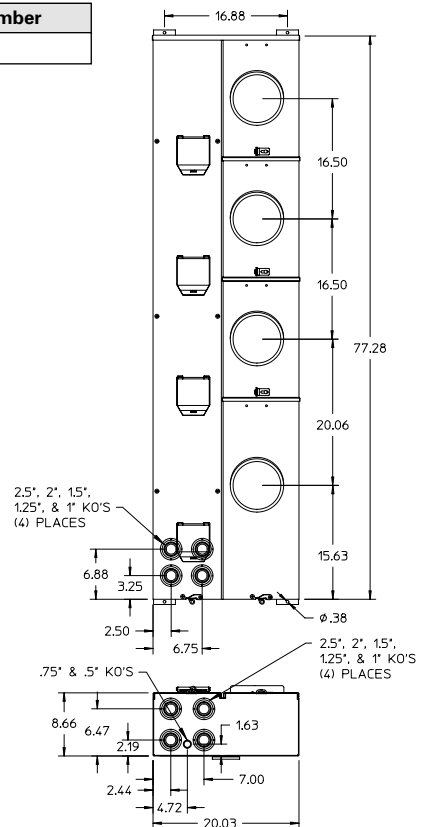
A33

Catalog Number
W3MM3



A34

Catalog Number
W3MM4

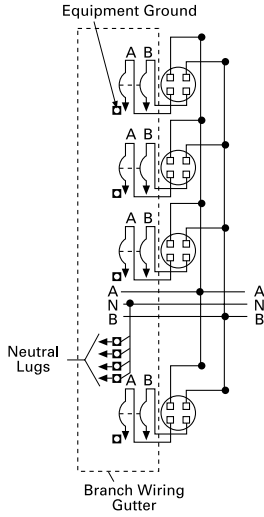


Meter Centers

Modular Metering: Lever Bypass Modules - Wiring Diagrams

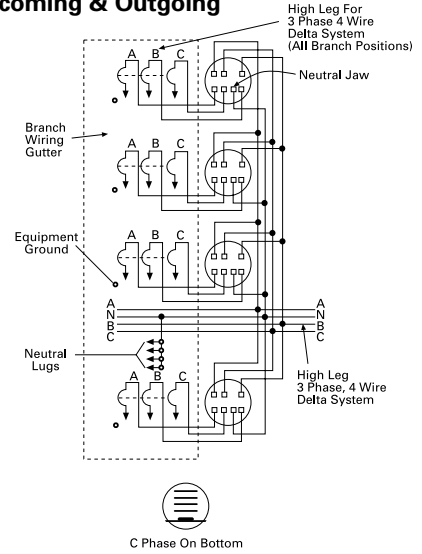
Commercial Meter Modules, Specifications
With 5-Jaw, 1-Phase, 3-Wire Outgoing Landis & Gyr Meter Sockets

1-Phase Incoming & Outgoing

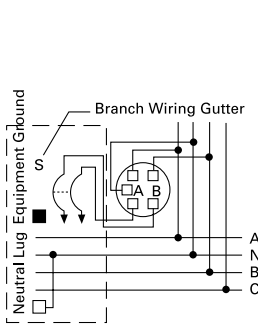


| Meter Module Configuration | Wiring Diagram References |
|----------------------------|--------------------------------|
| All 4 High | As Shown |
| All 3 High | Omit Top Meter |
| All 2 High | Omit Top Two Meters |
| All 1 High | Omit Top Two and Bottom Meters |

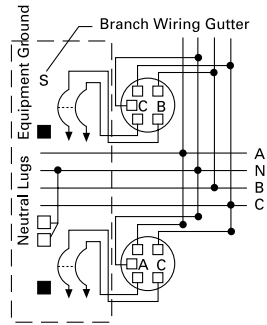
3-Phase Incoming & Outgoing



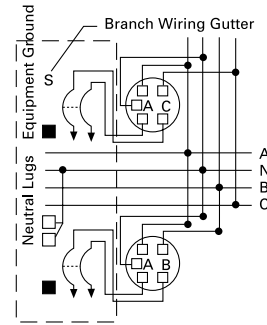
3
METERING



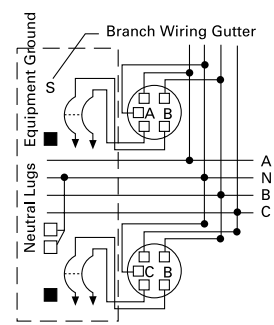
Catalog Number
W2MM1225U



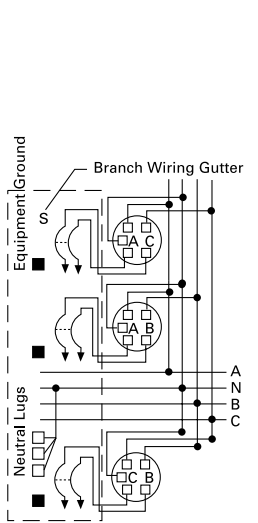
Catalog Number
W2MM2AB225U



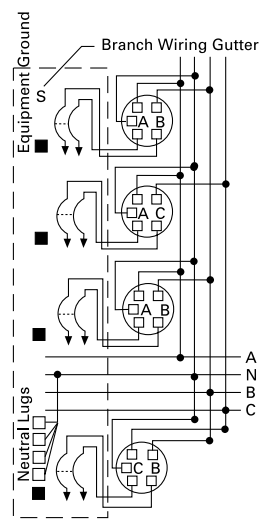
Catalog Number
W2MM2BC225U



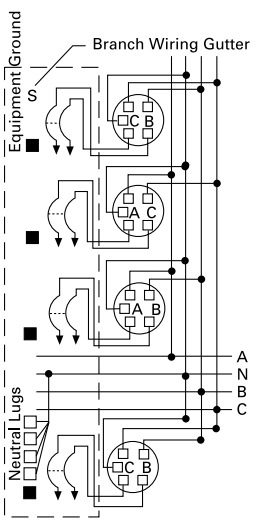
Catalog Number
W2MM2CA225U



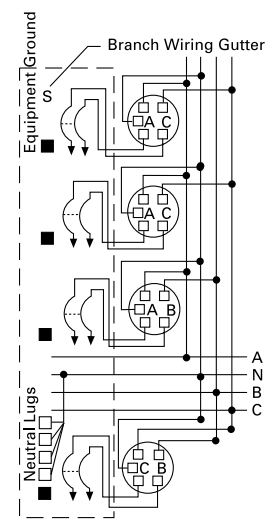
Catalog Number
W2MM3225U



Catalog Number
W2MM4AB225U



Catalog Number
W2MM4BC225U



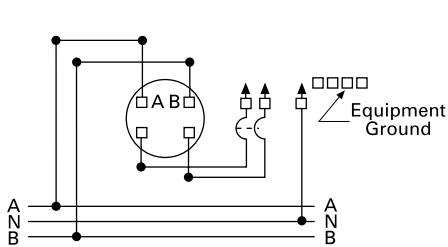
Catalog Number
W2MM4CA225U

Group Metering

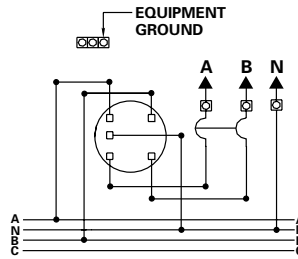
Meter Centers

Commercial Meter Modules - Wiring & Knockout Diagrams

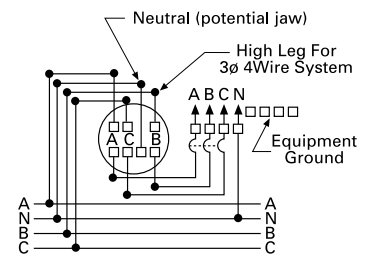
Wiring Diagrams for 400A Plug-in and Bolt-in Socket



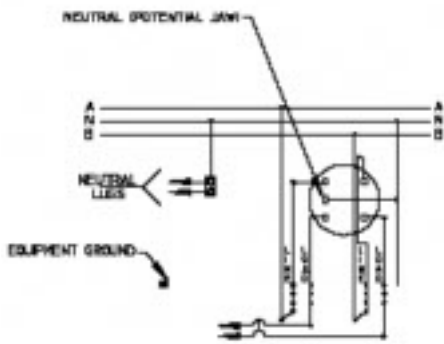
W1MM1400



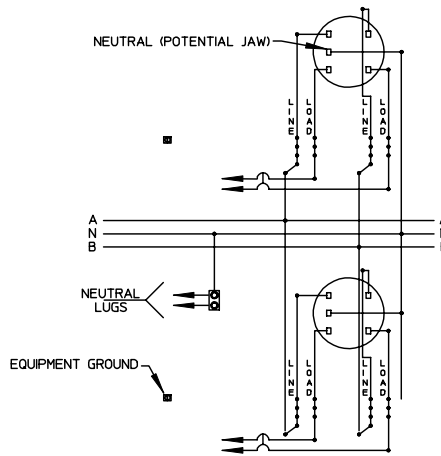
W2MM1400



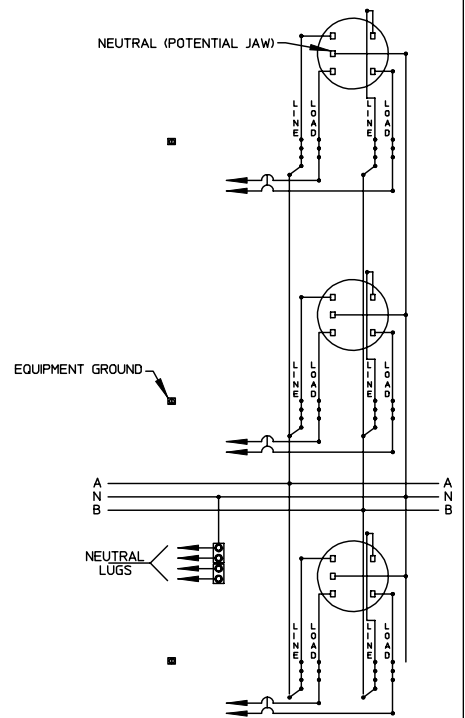
W3MM1400



W1MM1225USS



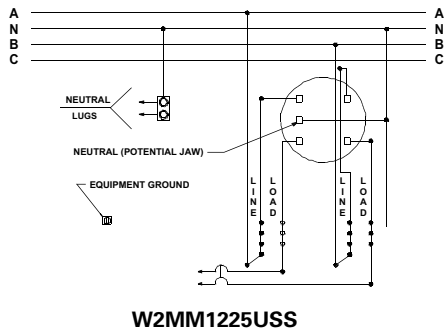
W1MM2225USS



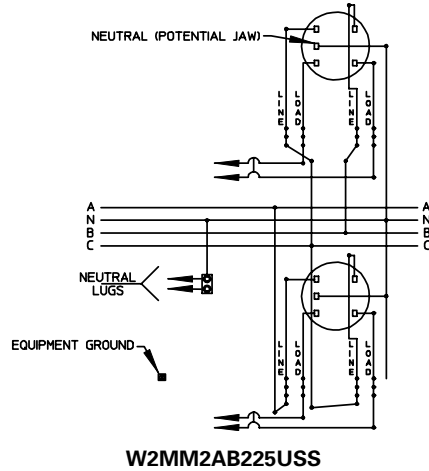
W1MM3225USS

Meter Centers

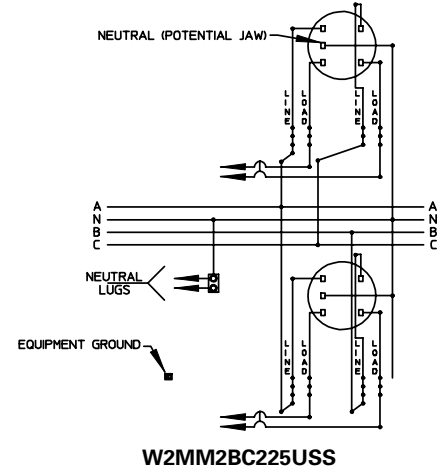
Modular Metering: Test Block Bypass Modules - Wiring & Knockout Diagrams



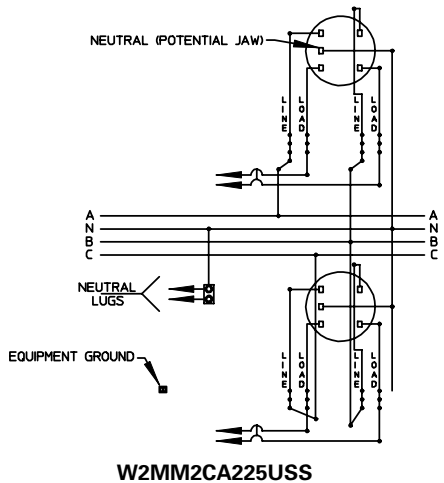
W2MM1225USS



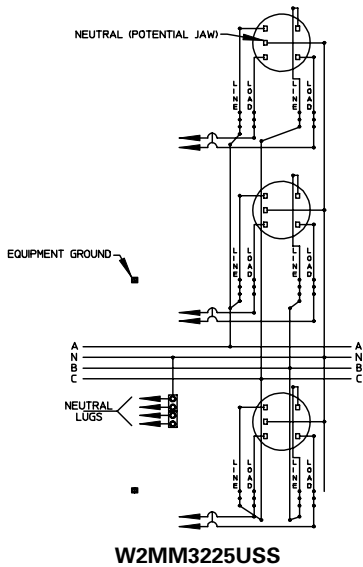
W2MM2AB225USS



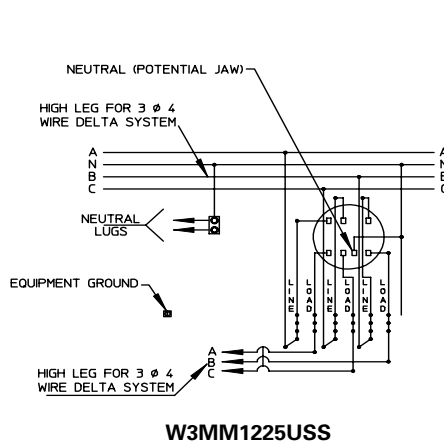
W2MM2BC225USS



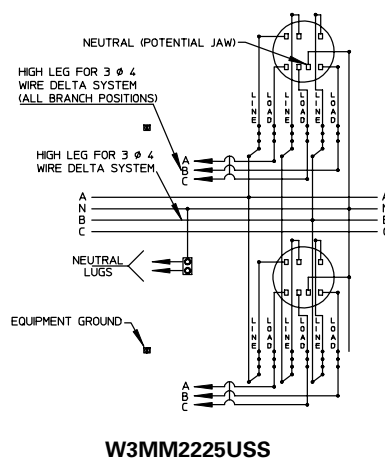
W2MM2CA225USS



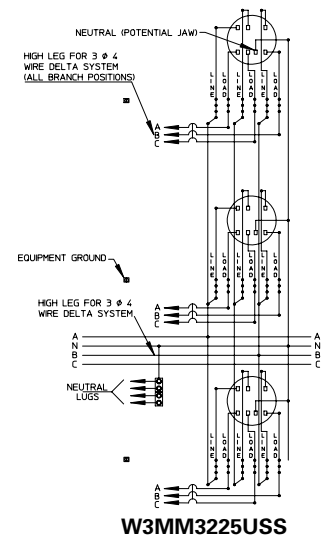
W2MM3225USS



W3MM1225USS



W3MM2225USS



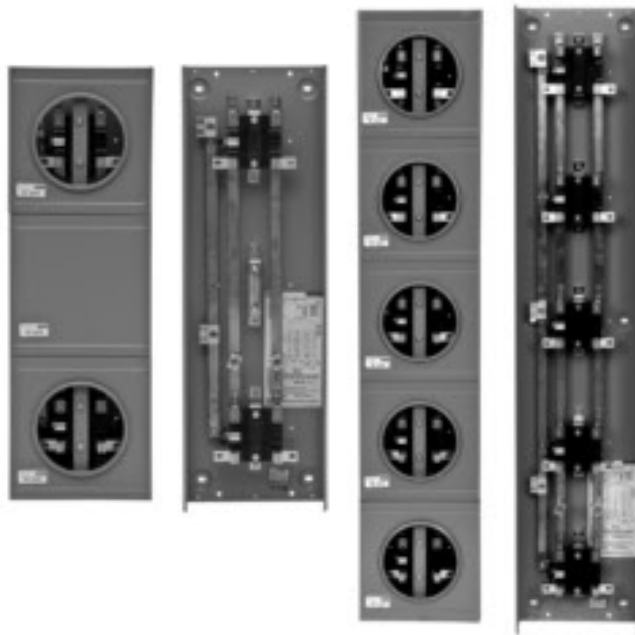
W3MM3225USS

Group Metering: NYC Gangable Metering

NYC Group Metering: Information

Product Descriptions

Murray New York City Apartment Metering is a versatile, unassembled modular metering product comprised of separate modules that may be assembled to produce a variety of configurations. Only those standard modules shown in this publication will be sold. Installation instructions are shipped with the product. The modules are:



Meter Stacks

Meter Stacks are available from 2 to 5 meter positions, arranged vertically and pre-bussed on the line side. Each meter position is rated 100 amps continuous (125 amps maximum), 5 jaw, with the 5th jaw located at 9 o'clock and connected to the stack neutral bus. Indoor mounting only.

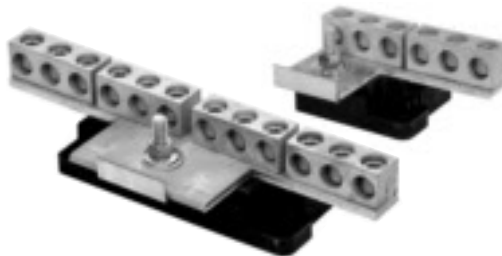
Line Troughs

Line troughs are indoor horizontal wireways that support the meter stacks and supply unmetered line power to meter stack bus. Line trough is available from 2 to 5 stack positions and may be ganged by means of couplers to accommodate 6 or more stacks. Phase blocks and line terminals are required to terminate line conductors and to provide means to field wire each stack. Trough end walls are ordered separately.



Phase Blocks

Phase blocks are required to terminate line conductors and provide terminals for field connection to each stack bus. Phase blocks are available with 3, 6 or 12 take-off lugs.



System Parameters

- Mounting: Indoor only
- Input: 208Y/120V AC, 3 Phase, 4 Wire or 120/240V AC, 1 Phase, 3 Wire
- Maximum line terminal- (2) 500 kcmil/phase
- Output: 120Y/208V AC, 1 Phase, 3 wire or 120/240V AC, 1 Phase, 3 Wire 100 Amps continuous/meter position (125 amps maximum)
- Meter Sockets: 5 jaw, with 5th jaw located at 9 o'clock and electrically connected to neutral bus
- Tenant Circuit Breakers: Use Murray Type MP-T 2 pole plug-on circuit breakers, (100 amps maximum)

Group Metering: NYC Gangable Metering

NYC Group Metering: Information

Getting Started

Before ordering components, the following should be known:

- Installation instructions are shipped with the product
- Number of meter positions
- Amp rating of each meter position
- Voltage and phase of incoming line
- Line conductor size and quantity
- Vertical and horizontal space limitations, if any

Meter stacks are 10" wide and are 10" high for each meter position, or blank position. (A 3-high stack with no blank positions would be 10" wide and 30" high). When considering the overall height of an installation, you must add the height of the line trough (12") and the breaker trough (16") to the stack height.

An installation of 3-high stacks would be 58" in overall height (30" + 12" + 16" = 58").

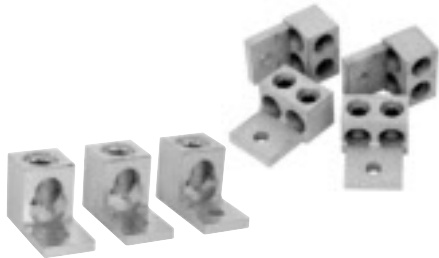
All meter stacks in the same meter bank must be the same height to allow the breaker trough to fit on top of the stacks.

3
METERING

Line Terminal Kits

Line terminals are available in kits of 4 terminals each. The terminals are tang lugs which mount on threaded studs provided on the phase blocks. Terminals are available in 3 sizes:

- (1) 350 kcmil
- (1) 500 kcmil
- (2) 500 kcmil maximum



End Wall Kits

These kits contain 4 end walls; 2 end walls for the line trough and 2 end walls for the breaker trough.

Circuit Breakers

New York City Apartment Metering uses standard 2-pole plug-on circuit breakers, Murray Type MP-T, 100 amps maximum.



Coupler Kits

These kits each contain 2 trough coupler straps; one for the line trough and one for the breaker trough. These couplers mount using the same mounting screw holes as the end walls.

Line Trough Spacer Kits

These kits may be used to increase wire bend space between the first phase block and line entrance end wall, if necessary. They connect to line troughs with a standard coupling kit. Trough end walls are ordered separately..

Breaker Troughs

Breaker troughs are horizontal indoor wireways that contain provisions for plug-in circuit breakers used as tenant mains. The trough bolt to the top of the meter stacks. Field wiring connects each meter socket to a circuit breaker mounting block. Breaker troughs are available in 2 to 5 stack positions and can be ganged to accommodate 6 or more stacks. Trough end walls are ordered separately.



Group Metering

Group Metering: NYC Gangable Metering

NYC Group Metering: Meter Stack Selection

(Use Selection Chart #1 and Specification Chart #1)

Knowing the number of meter positions, and the height and width requirements, select quantity and catalog number of stacks from Selection Chart #1. The height dimension in this chart includes line and breaker troughs. For specs, refer to Specification Chart #1.

Specification Chart #1—Meter Stacks 300V AC max., 100 Amps/Position Continuous Duty, 1 or 3 Phase Network

| Meter Positions | Height ^① (Inches) | Catalog Number | Wire Range | List Price \$ |
|-----------------|------------------------------|----------------|----------------|---------------|
| | | | Line Terminals | |
| 2 | 20 | UVS210 | #6-4/0 | 358.00 |
| 2 | 30 | UVS311B | #6-4/0 | 507.00 |
| 3 | 30 | UVS310 | #6-4/0 | 653.00 |
| 3 | 40 | UVS411B | #6-4/0 | 803.00 |
| 4 | 40 | UVS410 | #6-4/0 | 948.00 |
| 4 | 50 | UVS511B | #6-4/0 | 1099.00 |
| 5 | 50 | UVS510 | #6-4/0 | 1248.00 |

① All stacks are 10" wide.

Selection Chart #1—Meter Bank Height and Width Meter Stack Combinations for Various Heights and Widths, by Number of Meter Positions

| No. of Meter Positions | 58" High | | | 68" High | | | 78" High | | |
|------------------------|-----------------------|---------|----------------|----------------------------|---------|----------------|----------------------------|---------|----------------|
| | Use this Quantity of: | | Width (Inches) | Use this Quantity of: | | Width (Inches) | Use this Quantity of: | | Width (Inches) |
| | UVS310 | UVS311B | | UVS410 | UVS411B | | UVS510 | UVS511B | |
| 9 | 3 | 0 | 30 | Not Practical ^① | | — | 1 | 1 | 20 |
| 10 | 2 | 2 | 40 | 1 | 2 | 30 | 2 | 0 | 20 |
| 11 | 3 | 1 | 40 | 2 | 1 | 30 | Not Possible ^② | | — |
| 12 | 4 | 0 | 40 | 3 | 0 | 30 | Not Practical ^② | | — |
| 13 | 3 | 2 | 50 | 1 | 3 | 40 | 1 | 2 | 30 |
| 14 | 4 | 1 | 50 | 2 | 2 | 40 | 2 | 1 | 30 |
| 15 | 5 | 0 | 50 | 3 | 1 | 40 | 3 | 0 | 30 |
| 16 | 4 | 2 | 60 | 4 | 0 | 40 | Not Practical ^② | | — |
| 17 | 5 | 1 | 60 | 2 | 3 | 50 | 1 | 3 | 40 |
| 18 | 6 | 0 | 60 | 3 | 2 | 50 | 2 | 2 | 40 |
| 19 | 5 | 2 | 70 | 4 | 1 | 50 | 3 | 1 | 40 |
| 20 | 6 | 1 | 70 | 5 | 0 | 50 | 4 | 0 | 40 |
| 21 | 7 | 0 | 70 | 3 | 3 | 60 | 1 | 4 | 50 |
| 22 | 6 | 2 | 80 | 4 | 2 | 60 | 2 | 3 | 50 |
| 23 | 7 | 1 | 80 | 5 | 1 | 60 | 3 | 2 | 50 |
| 24 | 8 | 0 | 80 | 6 | 1 | 60 | 4 | 1 | 50 |
| 25 | 7 | 2 | 90 | 4 | 3 | 70 | 5 | 0 | 50 |
| 26 | 8 | 1 | 90 | 5 | 2 | 70 | 2 | 4 | 60 |
| 27 | 9 | 0 | 90 | 6 | 1 | 70 | 3 | 3 | 60 |
| 28 | 8 | 2 | 100 | 7 | 0 | 70 | 4 | 2 | 60 |
| 29 | 9 | 1 | 100 | 5 | 3 | 80 | 5 | 1 | 60 |
| 30 | 10 | 0 | 100 | 6 | 2 | 80 | 6 | 0 | 60 |
| 31 | 9 | 2 | 110 | 7 | 1 | 80 | 3 | 4 | 70 |
| 32 | 10 | 1 | 110 | 8 | 0 | 80 | 4 | 3 | 70 |
| 33 | 11 | 0 | 110 | 6 | 3 | 90 | 5 | 2 | 70 |
| 34 | 10 | 2 | 120 | 7 | 2 | 90 | 6 | 1 | 70 |
| 35 | 11 | 1 | 120 | 8 | 1 | 90 | 7 | 0 | 70 |
| 36 | 12 | 0 | 120 | 9 | 0 | 90 | 4 | 4 | 80 |
| 37 | 11 | 2 | 130 | 7 | 3 | 100 | 5 | 3 | 80 |
| 38 | 12 | 1 | 130 | 8 | 2 | 100 | 6 | 2 | 80 |
| 39 | 13 | 0 | 130 | 9 | 1 | 100 | 7 | 1 | 80 |
| 40 | 12 | 2 | 140 | 10 | 0 | 100 | 8 | 0 | 80 |

① Use (3) UVS310 instead of (3) UVS411B.

② Use 3-high or 4-high stacks.

Group Metering: NYC Gangable Metering

NYC Group Metering: Trough & Phase Block Selection

Line Troughs

(Use Selection Chart #2 and Specification Chart #2)

Knowing the number of meter **stacks**, (not meter positions!) and the height and width requirements, select quantity and catalog number of stacks from Selection Chart #2. For specs, refer to Specification Chart #2

Breaker Troughs

(Use Selection Chart #2 and Specification Chart #3)

Using the total number of meter **stacks**, (not meter positions!), select the quantity and catalog number of breaker troughs from Selection Chart #2 and spec from Specification Chart #3. Use MP-T style breakers only. Breakers not included.

Phase Blocks

(Use Selection Chart #2 and Specification Chart #4)

Using the number of meter stacks and the incoming power supply, use Selection Chart #2 to determine the quantity and catalog number of phase blocks for line and neutral termination. Spec these from Specification Chart #4.

Selection Chart #2—Line Trough, Breaker Trough and Phase Block Selection

| No. of Meter Stacks in Bank | Line Trough Selection | | | Breaker Trough Selection | | | Phase Block Section | | | |
|-----------------------------|-----------------------|---------------|--------------|--------------------------|---------------|--------------|------------------------|---------------|------------------------|---------------|
| | Left Trough | Middle Trough | Right Trough | Left Trough | Middle Trough | Right Trough | 3 Phase, 4 Wire System | | 1 Phase, 3 Wire System | |
| | | | | | | | Line Blocks | Neutral Block | Line Blocks | Neutral Block |
| 3 | ULT30 ^① | — | — | UBT30 | — | — | (3) UPB3 | (1) UPB3 | (2) UPB3 | (1) UPB3 |
| 4 | ULT40 ^② | — | — | UBT40 | — | — | (3) UPB3 | (1) UPB6 | (2) UPB6 | (1) UPB6 |
| 5 | ULT50 | — | — | UBT50 | — | — | (3) UPB6 | (1) UPB6 | (2) UPB6 | (1) UPB6 |
| 6 | ULT30 ^③ | — | ULT30 | UBT30 ^③ | — | UBT30 | (3) UPB6 | (1) UPB6 | (2) UPB6 | (1) UPB6 |
| 7 | ULT40 ^③ | — | ULT30 | UBT40 ^③ | — | UBT30 | (3) UPB6 | (1) UPB12 | (2) UPB12 | (1) UPB12 |
| 8 | ULT40 ^③ | — | ULT40 | UBT40 ^③ | — | UBT40 | (3) UPB6 | (1) UPB12 | (2) UPB12 | (1) UPB12 |
| 9 | ULT50 ^③ | — | ULT40 | UBT50 ^③ | — | UBT40 | (3) UPB6 | (1) UPB12 | (2) UPB12 | (1) UPB12 |
| 10 | ULT50 ^③ | — | ULT50 | UBT50 ^③ | — | UBT50 | (3) UPB12 | (1) UPB12 | (2) UPB12 | (1) UPB12 |
| 11 | ULT40 ^④ | ULT40 | ULT30 | UBT40 ^④ | UBT40 | UBT30 | (3) UPB12 | (1) UPB12 | (2) UPB12 | (1) UPB12 |
| 12 | ULT40 ^④ | ULT40 | ULT40 | UBT40 ^④ | UBT40 | UBT40 | (3) UPB12 | (1) UPB12 | (2) UPB12 | (1) UPB12 |

- ① Spacer ULT10SP is required if line conductors exceed #6 AWG.
- ② Spacer ULT10SP is required if line conductors exceed #350 kcmil.
- ③ Requires (1) UCP1216 Coupler Kit. Kit provides coupling straps for both line and breaker troughs.
- ④ Requires (2) UCP1216 Coupler Kits. Kit provides coupling straps for both line and breaker troughs.

Specification Chart #2—Line Troughs 240V AC max. 1 Phase or 3 Phase

| Stack Positions | Width ^① (Inches) | Catalog Number | List Price \$ |
|-----------------|-----------------------------|--------------------|---------------|
| 2 | 20 | ULT20 ^② | 121.00 |
| 3 | 30 | ULT30 | 183.00 |
| 4 | 40 | ULT40 | 241.00 |
| 5 | 50 | ULT50 | 297.00 |

- ① Line troughs are 12" high.
- ② Will not accommodate Phase Blocks.

Specification Chart #3— Breaker Troughs^①

| Stack Positions | Width ^② (Inches) | Catalog Number | List Price \$ |
|-----------------|-----------------------------|----------------|---------------|
| 2 | 20 | UBT20 | 236.00 |
| 3 | 30 | UBT30 | 356.00 |
| 4 | 40 | UBT40 | 473.00 |
| 5 | 50 | UBT50 | 594.00 |

- ① Use Murray Type MP-T circuit breakers. Breakers not included.
- ② Height is 16".

Specification Chart #4—Phase Blocks 240V AC max. 1 Phase or 3 Phase

| Number of Take-off Lugs | Catalog Number | Wire Range | | List Price \$ |
|-------------------------|----------------|-------------------|-----------|---------------|
| | | Line ^① | Load | |
| 3 | UPB3 | 3/8 x 16 Stud | #6 - #4/0 | 52.00 |
| 6 | UPB6 | 3/8 x 16 Stud | #6 - #4/0 | 59.00 |
| 12 | UPB12 | 3/8 x 16 Stud | #6 - #4/0 | 98.00 |

- ① Requires separate line lug kit.

Group Metering: NYC Gangable Metering

NYC Group Metering: Terminals & Accessories

Line Terminals

(Use Specification Chart #5)

Knowing the size and quantity per phase of the line conductors, select and spec these from Specification Chart #5. Line terminals come in kits of four terminal each. One kit will supply line terminals for three phase legs and neutral.

End Walls

(Use Specification Chart #6)

NOTE: Each installation MUST have an end wall kit! The kit provides end walls for each end of the line and breaker troughs. (Four end walls). Use Specification Chart #6.

Coupling Kits

(Use Selection Chart #2 and Specification Chart #6)

When more than one line trough is needed to support the number of meter stacks on a job, or when a line trough spacer is required, coupling straps are required to connect the troughs. Use Selection Chart #2 footnotes 3 and 4 to determine quantity of coupling kits required. Each kit provides one strap for line trough and one strap for breaker trough. Spec from Specification Chart #6.

Line Trough Spacer Kits

(Use Selection Chart #2 and Specification Chart #6)

In some applications, the first phase block may be too close to the end wall of the line trough to provide proper wire bend space for the line conductors being used. Selection Chart #2 footnotes 1 and 2 will show when spacer kits are required.

Tenant Circuit Breakers

Each meter position in use requires a tenant circuit breaker. Use standard Murray Type MP-T circuit breakers from the Murray Catalog.

Specification Chart #5—Line Terminals

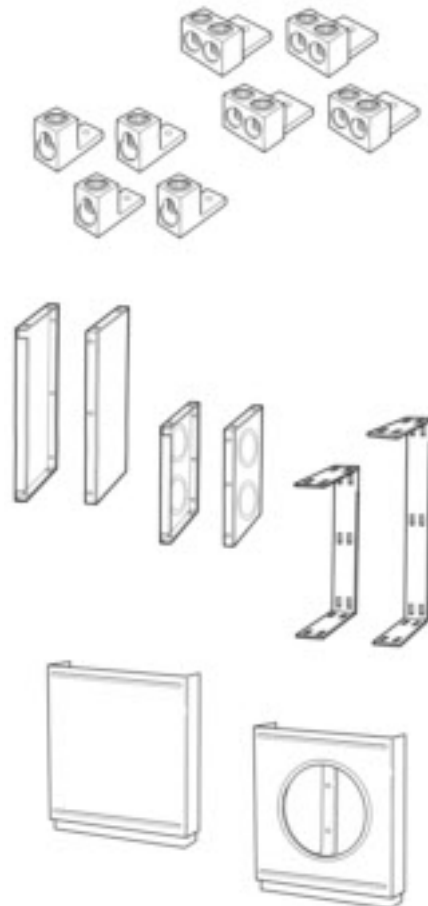
| Wire Range | Catalog Number | List Price \$ |
|---|----------------|---------------|
| (1) #6-350 kcmil | ULK1350 | 115.00 |
| (1) #4-500 kcmil or (2) #1/0-250 kcmil | ULK1500 | 140.00 |
| (2) #2-600 kcmil | ULK2500 | 154.00 |

Specification Chart #6—End Wall and Coupling Kits

| Item | Catalog Number | List Price \$ |
|--|----------------|---------------|
| End Wall Kit Contains 4 end walls; 2 for line trough and 2 for breaker trough. | UEW1216 | 59.00 |
| Coupling Kit Contains 2 coupling straps; 1 for line trough and 1 for breaker trough. | UCP1216 | 38.50 |

Specification Chart #7—Accessories

| Item | Catalog Number | List Price \$ |
|--|----------------|---------------|
| Spacer 10" spacer for use with line trough to provide wire bend space where required | ULT10SP | 69.00 |
| Meter Cover | UMCVR | 49.00 |
| Blank Position Cover | UMBCVR | 49.00 |
| Plastic Meter Cover (Ring Type) | SX087M | 8.31 |
| Breaker Filler Plate | LX100FP | 2.90 |



Temporary Power Outlet Panels

Application Information

The need for easily accessible receptacles to provide electrical power for various types of portable equipment continues to rise as Americans build more homes and travel in recreational vehicles (RVs).

In order to satisfy the electrical power needs of temporary service and meet the requirements of the National Electrical Code, a safe and reliable power outlet is required.

Murray introduces a complete line of UL Listed power outlets suitable for use as temporary service equipment and RV power supply panels. These power outlets are in full compliance with the 2002 National Electrical Code®, articles 527 and 551 as shown.



Temporary Service

During the construction process, before the installation of permanent service, the various construction trades need access to electricity.

2008 NEC®, Section 590.3(a)

(a) During the Period of Construction. Temporary electrical power and lighting installations shall be permitted during the period of construction, remodeling maintenance, repair, or demolition of buildings, structures, equipment, or similar activities.

Section 590.4(d)

(d) Receptacles. All receptacles shall be of the grounding type. Unless installed in a continuous grounded metal raceway or metal-covered cable, all branch circuits shall contain a separate equipment grounding conductor, and all receptacles shall be electrically connected to the equipment grounding conductors. Receptacles on construction sites shall not be installed on branch circuits that supply temporary lighting. Receptacles shall not be connected to the same ungrounded conductor of multiwire circuits that supply temporary lighting.

RV Power Supply

Recreational vehicles with portable equipment need a reliable and safe source of AC power when parked.

2008 NEC, Sections 551.71, 81, 46(c) 551.71. Type Receptacles Provided.

Every recreational vehicle site with electrical supply shall be equipped with at least one 20-ampere, 125-volt receptacle. A minimum of 5 percent of all recreational vehicle sites, with electrical supply, shall each be equipped with a 50-ampere, 125/250-volt receptacle conforming to the configuration as identified in Figure 551.46(c). These electrical supplies shall be permitted to include additional receptacles that have configurations in accordance with the Section 551.81. A minimum of 70 percent of all recreational vehicle sites with electrical supply shall each be equipped with a 30-ampere, 125-volt receptacle conforming to Figure 551.46(c). This supply shall be permitted to include additional receptacle configurations conforming to Section 551.81. The remainder of all recreational vehicle sites with electrical supply shall be equipped with one or more of the receptacle configurations conforming to Section 551.81. Dedicated tent sites with a 15- or 20-ampere electrical supply shall be permitted to be excluded when determining the percentage of recreational vehicle sites with 30- or 50-ampere receptacles.

Additional receptacles shall be permitted for the connection of electrical equipment outside the recreational vehicle within the recreational vehicle park.

All 125-volt, single-phase, 15- and 20-ampere receptacles shall have listed ground-fault circuit-interrupter protection for personnel.

551.81. A receptacle to supply electric power to a recreational vehicle shall be one of the configurations shown in Figure 551.46 (c) in the following ratings.








(a) 50-Ampere. 125/250-volt, 50-ampere, 3-pole, 4-wire, ground type for 120/240-volt systems

(b) 30-Ampere. 125-volt, 30-ampere, 2-pole, 3-wire, ground type for 120-volt systems.

(c) 20-Ampere. 125-volt, 20-ampere, 2-pole, 3-wire, ground type for 120-volt systems.

FPN: Complete details of these configurations can be found in National Electrical Manufacturers Association's Standard for Dimensions of Attachment Plugs and Receptacles, ANSI/NEMA WD 6-1989, Figures 14-50, TT, and 5-20.

Figure 551.46(c) Configurations for grounding-type receptacles and attachment plug caps used for recreational vehicle supply cords and recreational vehicle lots.

| Receptacles | Caps |
|---|---|
|  |  125-V, 20-A, 2-pole, 3-wire, grounding type |
| 20-A, 125-V, 2-pole, 3-wire, grounding type |  125-V, 15-A, 2-pole, 3-wire, grounding type |
|  |  |
| 30-A, 125-V, 2-pole, 3-wire, grounding type |  50-A, 125/250-V, 3-pole, 4-wire, grounding type |
|  | |



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Temporary Power Outlet Panels

Types Available



1 Surface

- Unmetered
- Ring Type Metered (Meter at top or bottom)
- Ringless metered (Meter at top or bottom)
- Lighted



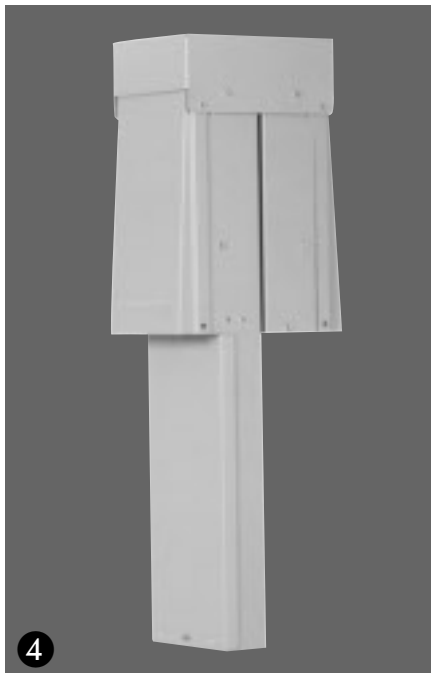
2 Earth Mount Pedestals

- Unmetered
- Ring Type (Metered)
- Ringless Type (Metered)
- Lighted
- Cable and Telephone
- Water

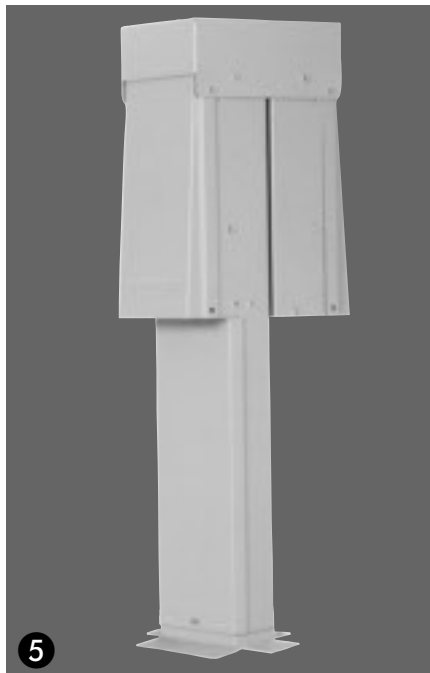


3 Pad Mount Pedestals

- Unmetered
- Ring Type (Metered)
- Ringless Type (Metered)
- Lighted
- Cable and Telephone
- Water



4



5

4 Back to Back Earth Mount Pedestals

- Unmetered
- Ring Type (Metered)
- Ringless Type (Metered)
- Lighted
- Cable and Telephone
- Water

5 Back to Back Pad Mount Pedestals

- Unmetered
- Ring Type (Metered)
- Ringless Type (Metered)
- Lighted
- Cable and Telephone
- Water

Temporary Power Outlet Panels

Product Features

Enclosures

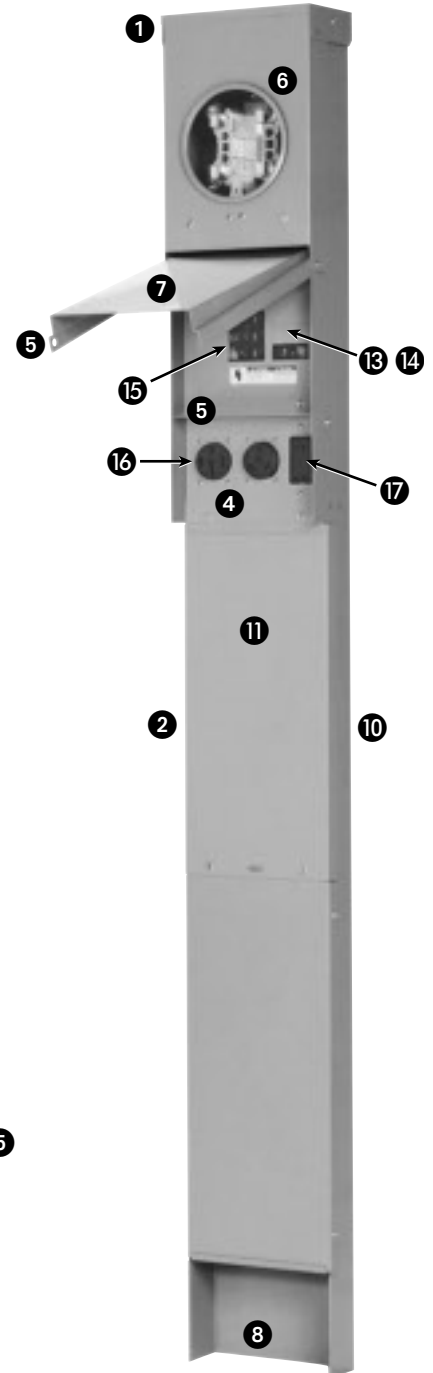
- 1 Rainproof**
Rainproof NEMA Type 3R construction.
- 2 Quality Finish**
All sheet metal components are powder coated with the highest quality finish and fabricated with G90 galvanized steel.
- 3 Installation Ease**
Three raised mounting embosses make installation a snap.
- 4 Removable Deadfronts**
Easily removable upper and lower deadfronts allow easy access to internal components for ease of installation.
- 5 Theft Resistant**
The padlock provisions and elevated upper deadfront design prevent unauthorized removal of the plugs or access to the circuit breakers.
- 6 Meters Top or Bottom**
Metered units are available with meters at the top or bottom.
 - Ring and ringless type meter covers available.
 - Utility grade, Landis & Gyr meter socket base.
 - Units with meter at bottom are ideally suited for underground feeds.
 - Meter sockets available to 125 amps maximum.
- 7 Removable Door**
Sloped door allows additional room for plugs, and is designed with aesthetic forms to add rigidity and sturdiness.
- 8 Overhead/Underground Feeds**
Surface devices have provisions for overhead and underground feeds.
 - For an overhead feed, use a readily available Type RX interchangeable hub. Closure plate is factory included.
 - For an underground feed, an extensive variety of easily removable knockouts are provided.
- 9 Light Option**
Lighted option to assist with nighttime site location and operation. Light provisions are the longest lasting and have the lowest operating cost in the industry.

Pedestals

- 10 One-Piece Construction**
Rigid, one-piece pedestal construction for all earth and pad mounted devices. Thoroughly tested for torsion and flexing resistance.
- 11 Block Assembly**
Loop-feed block assembly provides connectors capable of accepting up to 350 kcmil conductors. (Available on pedestal devices only).
- 12 Pad Mount**
Pad mounted devices are available. (not shown)

Interiors

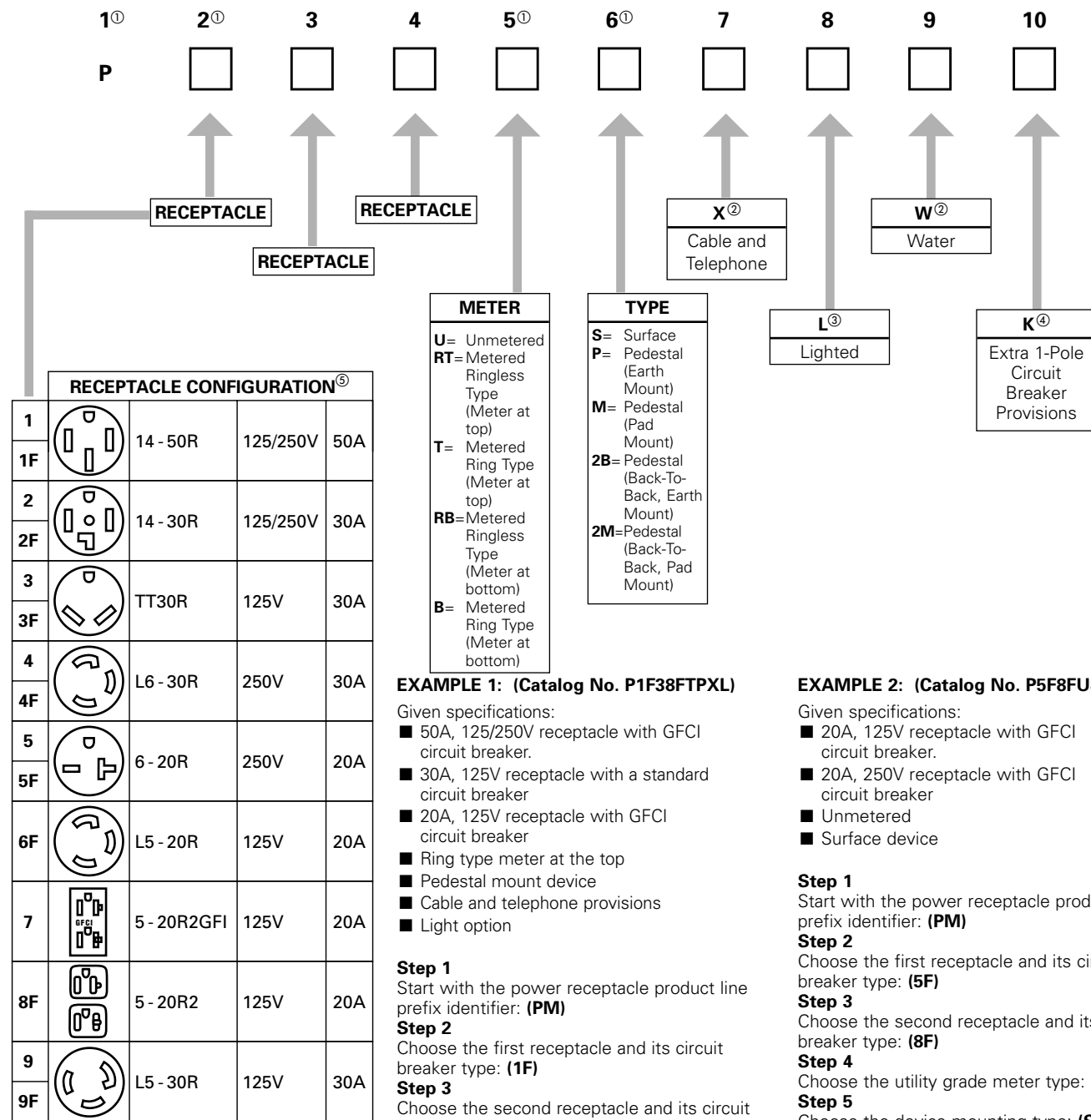
- 13 Bus Bars**
Plated copper bus bars provide the best protection against corrosion.
- 14 Copper Conductors**
Ready to use! All internal components are factory prewired with copper conductors.
- 15 Circuit Protection**
All receptacles are protected by lifetime warranted Siemens circuit breakers.
- 16 Receptacles**
Impact-resistant, thermoplastic, commercial grade receptacles.
- 17 GFCI Protection**
All 125 volt, 20 amp receptacles have GFCI protection. Siemens GFCI circuit breakers are available to provide protection for 20-50 amp receptacles.
- 18 Wire Connectors**
All wire connectors are suitable for use with copper or aluminum wire. (not shown)



Temporary Power Outlet Panels

Numbering System

Build Your Own Catalog Numbering System



① Required fields

② For use on unmetered or top metered devices.

③ All lighted devices require either a 5-20R2GFI receptacle or a QF120 circuit breaker.

④ Devices with two outlets with a total amperage of 60 amps or less have factory ready provisions for an additional 1-pole circuit breaker. Devices with three outlets with a total amperage of 100 amps or less have factory ready provisions for an additional 1-pole circuit breaker.

⑤ The "F" next to the receptacle number denotes GFCI circuit breaker protection.

Temporary Power Outlet Panels

Common Catalog Number Table

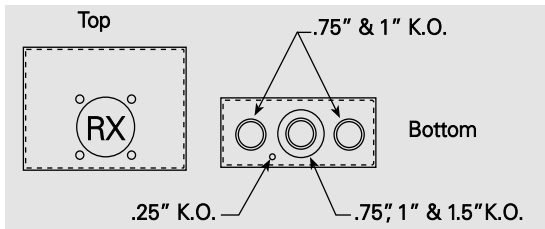
| Catalog Number | NEMA Type Receptacle - Breaker | | | Metered Type | | Mounting Type | | | | Wire Extra Circuit | Shpg. Range CU or AL | Wt. (lbs.) |
|----------------|--------------------------------|-----------|-----------|--------------|---------------|----------------------|----------|--------------|---------|--------------------|----------------------|------------|
| | Left | Center | Right | Ring Type | Ringless Type | Surface ^① | Pedestal | Back-to-Back | Lighted | | | |
| P77US | 5-20R2GFI | 5-20R2GFI | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P77RTS | 5-20R2GFI | 5-20R2GFI | | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P77TS | 5-20R2GFI | 5-20R2GFI | | Top | | X | | | | X | 2/Ø - #14 | 26 |
| P77RBS | 5-20R2GFI | 5-20R2GFI | | | Bottom | X | | | | X | 2/Ø - #14 | 32 |
| P77BS | 5-20R2GFI | 5-20R2GFI | | Bottom | | X | | | | X | 2/Ø - #14 | 32 |
| P57US | 5-20R2GFI | 6-20R | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P57RTS | 6-20R | 5-20R2GFI | | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P57TS | 6-20R | 5-20R2GFI | | Top | | X | | | | X | 2/Ø - #14 | 26 |
| P57RBS | 6-20R | 5-20R2GFI | | | Bottom | X | | | | X | 2/Ø - #14 | 32 |
| P57BS | 6-20R | 5-20R2GFI | | Bottom | | X | | | | X | 2/Ø - #14 | 32 |
| P777US | 5-20R2GFI | 5-20R2GFI | 5-20R2GFI | Unmetered | | X | | | | X | 2/Ø - #14 | 17 |
| P777RTS | 5-20R2GFI | 5-20R2GFI | 5-20R2GFI | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P777TS | 5-20R2GFI | 5-20R2GFI | 5-20R2GFI | Top | | X | | | | X | 2/Ø - #14 | 26 |
| P777RBS | 5-20R2GFI | 5-20R2GFI | 5-20R2GFI | | Bottom | X | | | | X | 2/Ø - #14 | 32 |
| P577BS | 6-20R | 5-20R2GFI | 5-20R2GFI | Bottom | | X | | | | X | 2/Ø - #14 | 32 |
| P577TS | 6-20R | 5-20R2GFI | 5-20R2GFI | Top | | X | | | | X | 2/Ø - #14 | 26 |
| P577US | 6-20R | 5-20R2GFI | 5-20R2GFI | Unmetered | | X | | | | X | 2/Ø - #14 | 17 |
| P577RTS | 6-20R | 5-20R2GFI | 5-20R2GFI | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P577RBS | 6-20R | 5-20R2GFI | 5-20R2GFI | | Bottom | X | | | | X | 2/Ø - #14 | 32 |
| P577BS | 6-20R | 5-20R2GFI | 5-20R2GFI | Bottom | | X | | | | X | 2/Ø - #14 | 32 |
| P137UP | 14-50R | TT30R | 5-20R2GFI | Unmetered | | | X | | | X | 350 kcmil - #6 | 40 |
| P137RTP | 14-50R | TT30R | 5-20R2GFI | | Top | | | X | | X | 350 kcmil - #6 | 48 |
| P137US | 14-50R | TT30R | 5-20R2GFI | Unmetered | | X | | | | X | 2/Ø - #14 | 17 |
| P137RTS | 14-50R | TT30R | 5-20R2GFI | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P137UPL | 14-50R | TT30R | 5-20R2GFI | Unmetered | | | X | | X | X | 350 kcmil - #6 | 45 |
| P137RTPL | 14-50R | TT30R | 5-20R2GFI | | Top | | X | | X | X | 350 kcmil - #6 | 53 |
| P137U2B | 14-50R | TT30R | 5-20R2GFI | Unmetered | | | | X | | X | 350 kcmil - #6 | 40 |
| P137RT2B | 14-50R | TT30R | 5-20R2GFI | | Top | | | | | X | 350 kcmil - #6 | 40 |
| P137RTSL | 14-50R | TT30R | 5-20R2GFI | | Top | X | | X | X | X | 2/Ø - #14 | 32 |
| P137TP | 14-50R | TT30R | 5-20R2GFI | Top | | | X | | | X | 350 kcmil - #6 | 49 |
| P37US | 5-20R2GFI | TT30R | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P37UP | 5-20R2GFI | TT30R | | Unmetered | | | X | | | X | 350 kcmil - #6 | 34 |
| P37RTP | TT30R | 5-20R2GFI | | | Top | | X | | | X | 350 kcmil - #6 | 49 |
| P37RTS | TT30R | 5-20R2GFI | | | Top | X | | | | X | 2/Ø - #14 | 26 |
| P37U2B | 5-20R2GFI | TT30R | | Unmetered | | | | X | | X | 350 kcmil - #6 | 34 |
| P37RT2B | TT30R | 5-20R2GFI | | | Top | | | X | | X | 350 kcmil - #6 | 49 |
| P37UPL | 5-20R2GFI | TT30R | | Unmetered | | | X | | X | X | 350 kcmil - #6 | 38 |
| P17US | 5-20R2GFI | 14-50R | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P17RTP | 14-50R | 5-20R2GFI | | | Top | X | | | | X | 350 kcmil - #6 | 49 |
| P3US | TT30R | | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P33US | TT30R | TT30R | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P33UP | TT30R | TT30R | | Unmetered | | | X | | | X | 350 kcmil - #6 | 34 |
| P1US | 14-50R | | | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P337US | TT30R | TT30R | 5-20R2GFI | Unmetered | | X | | | | X | 2/Ø - #14 | 14 |
| P337UP | TT30R | TT30R | 5-20R2GFI | Unmetered | | | X | | | X | 350 kcmil - #6 | 40 |

① All surface devices have a factory-included closure plate.

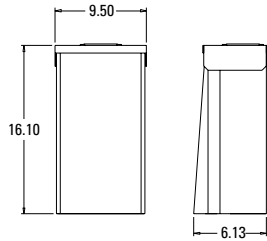
Temporary Power Outlet Panels

Dimension Drawings

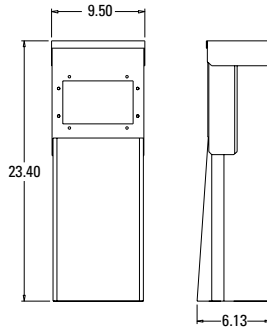
STANDARD KNOCKOUT PATTERN



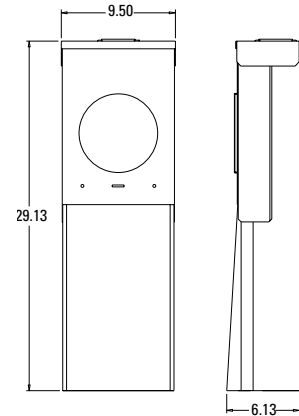
The knockout diagram shown at left is to be referenced for all surface mount devices



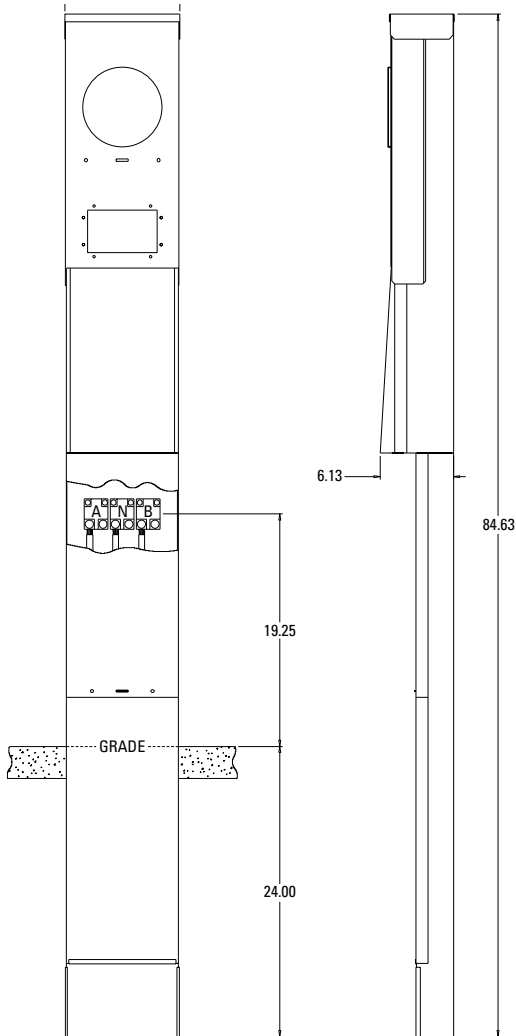
SURFACE



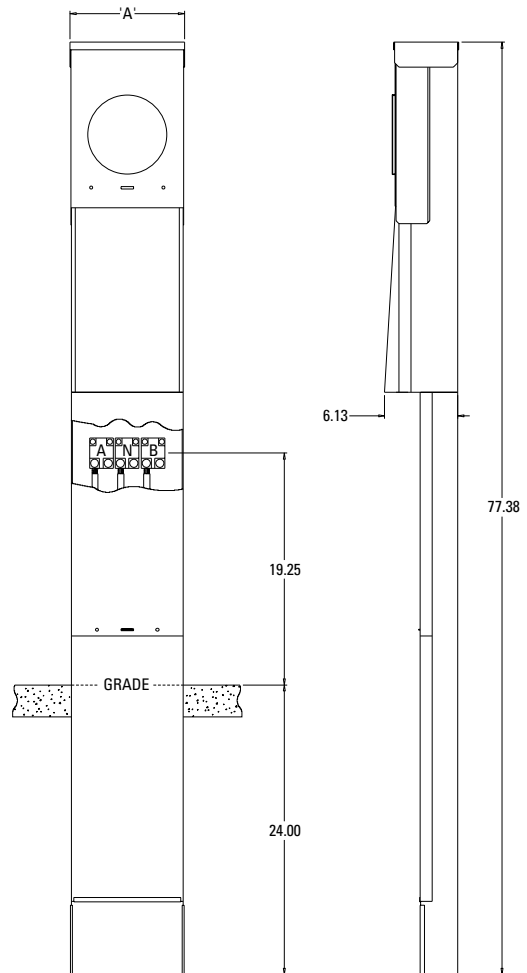
LIGHTED SURFACE



METERED SURFACE



METERED LIGHTED PEDESTAL

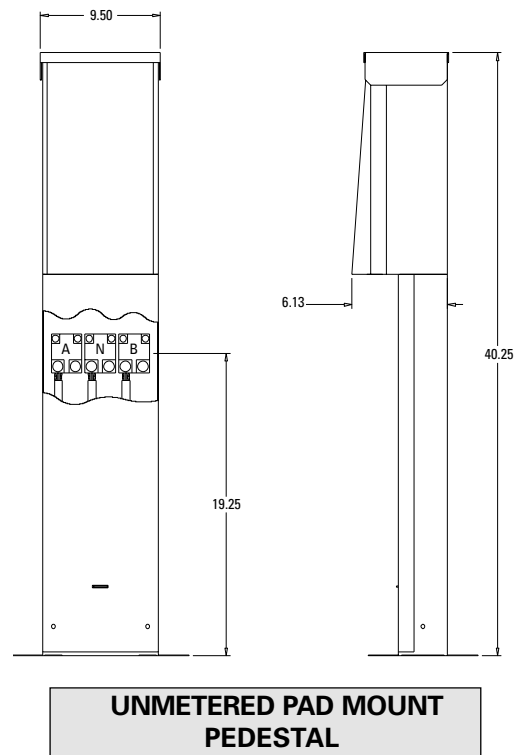
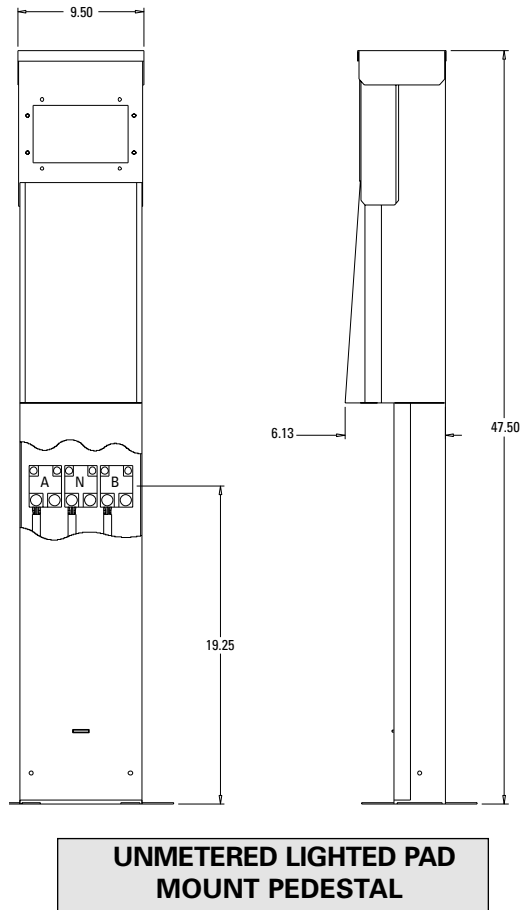
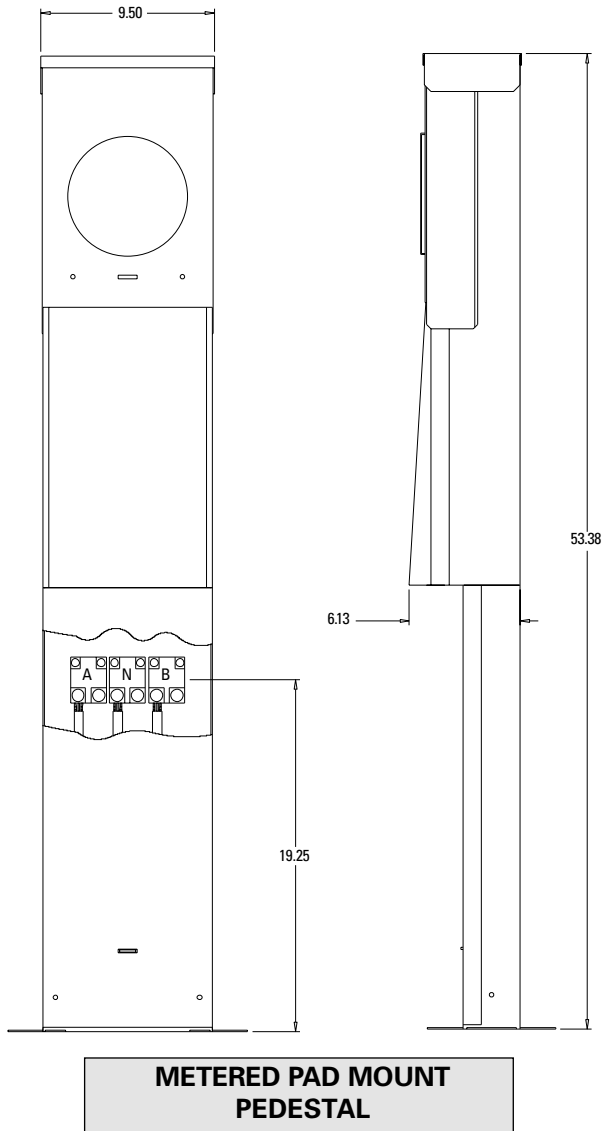


METERED PEDESTAL

Temporary Power Outlet Panels

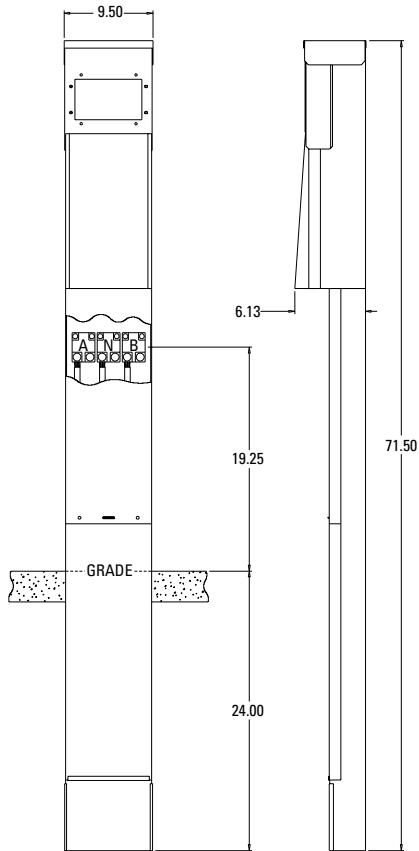
Dimension Drawings

TEMPORARY POWER
4
OUTLET PANELS

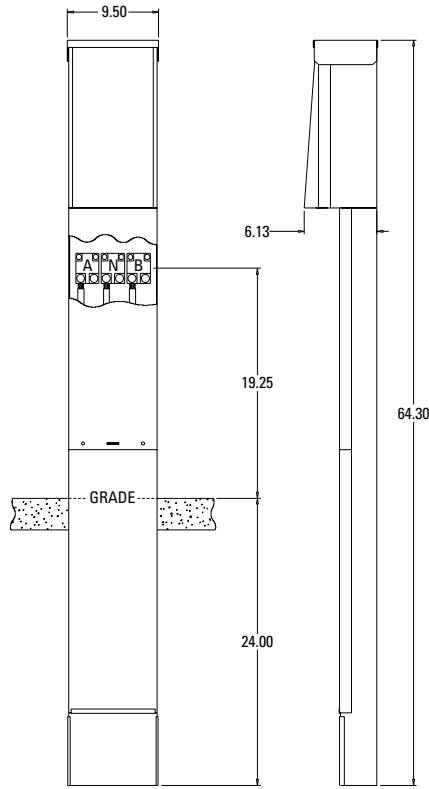


Temporary Power Outlet Panels

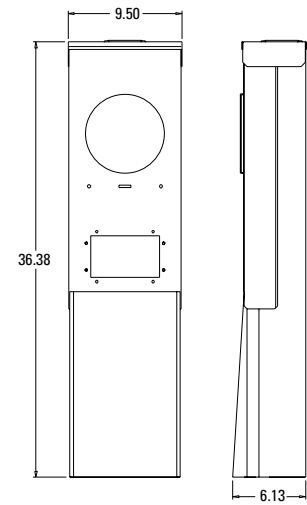
Dimension Drawings



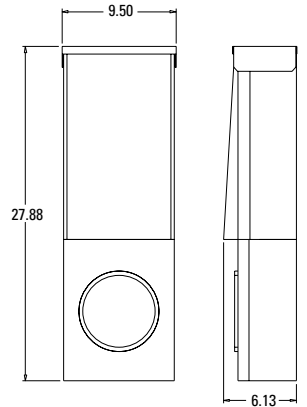
UNMETERED LIGHTED PEDESTAL



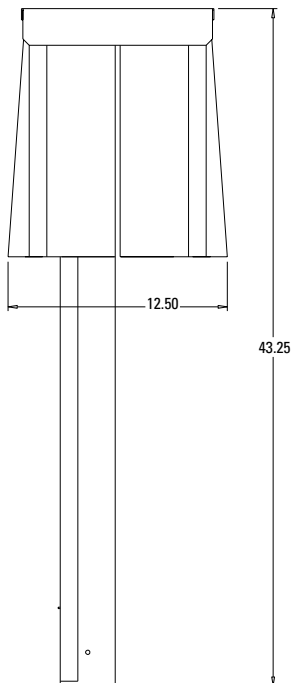
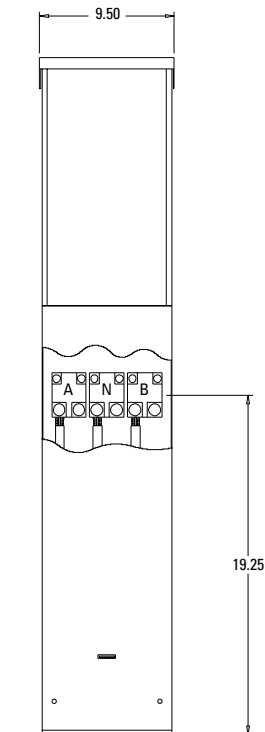
UNMETERED PEDESTAL



METER LIGHTED SURFACE



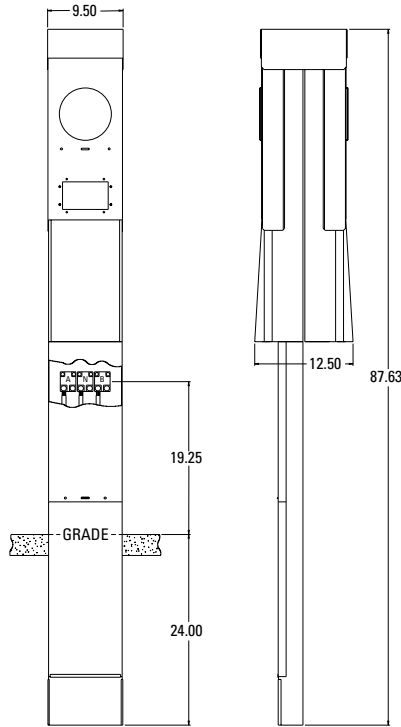
METER AT BOTTOM SURFACE



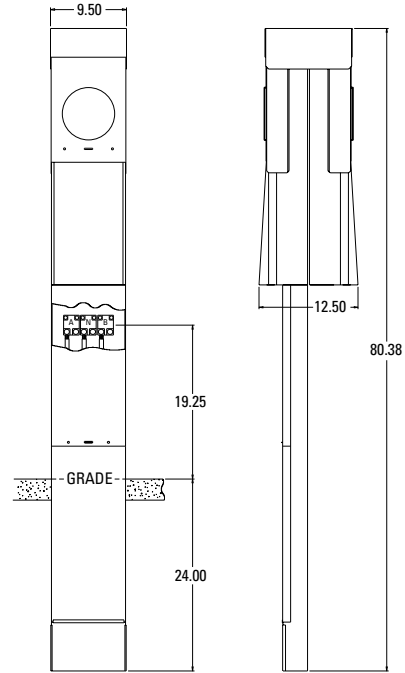
**UNMETERED PAD MOUNT
BACK-TO-BACK-PEDESTAL**

Temporary Power Outlet Panels

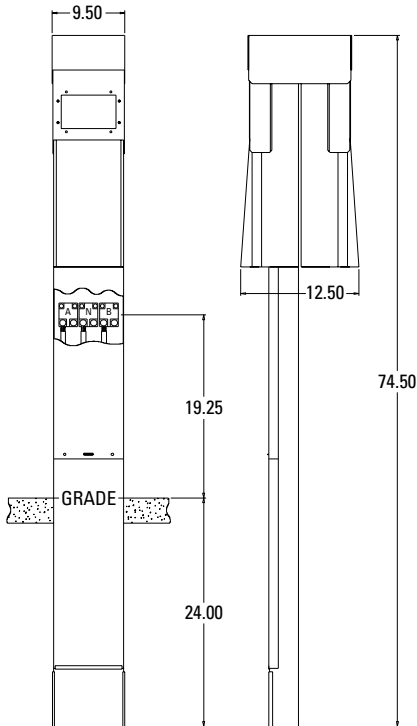
Dimension Drawings



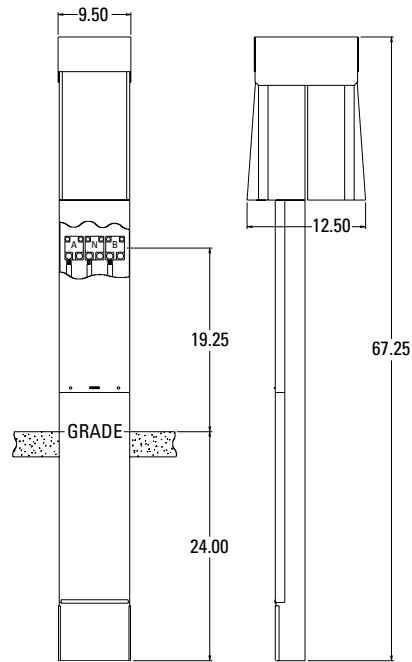
**METERED LIGHTED
BACK-TO-BACK PEDESTAL**



**METERED BACK-TO-BACK
PEDESTAL**



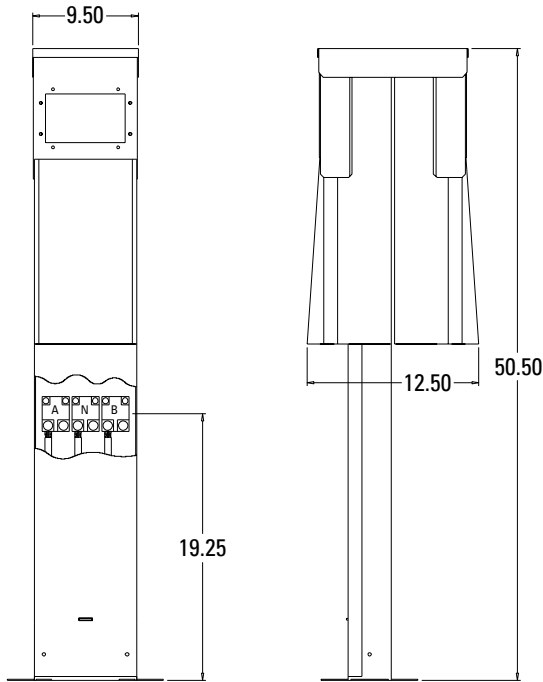
**UNMETERED LIGHTED
BACK-TO-BACK PEDESTAL**



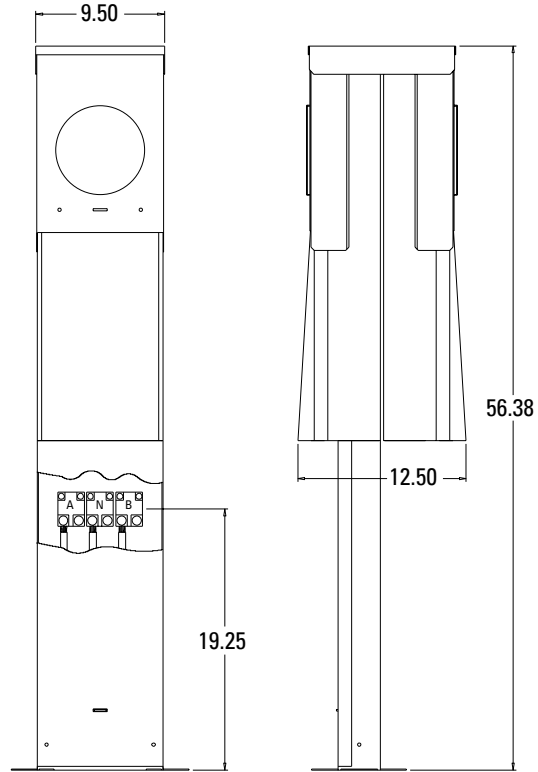
**UNMETERED BACK-TO-BACK
PEDESTAL**

Temporary Power Outlet Panels

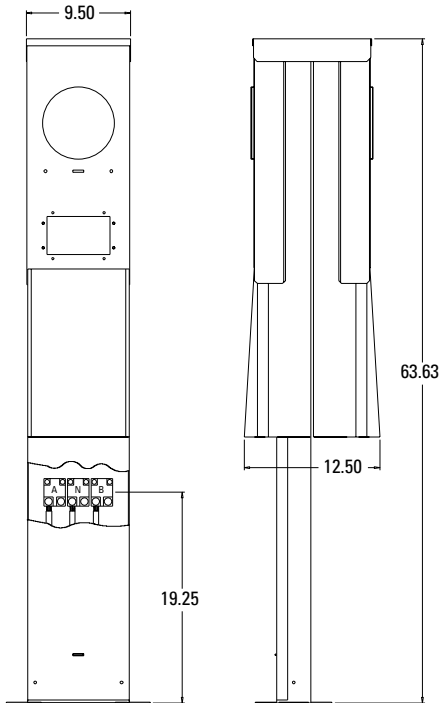
Dimension Drawings



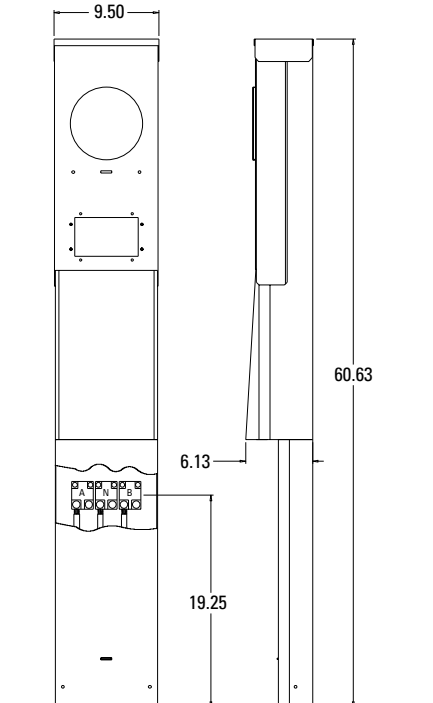
**UNMETERED LIGHTED PAD MOUNT
BACK-TO-BACK-PEDESTAL**



**METERED PAD MOUNT
BACK-TO-BACK PEDESTAL**



**METERED LIGHTED PAD MOUNT
BACK-TO-BACK PEDESTAL**

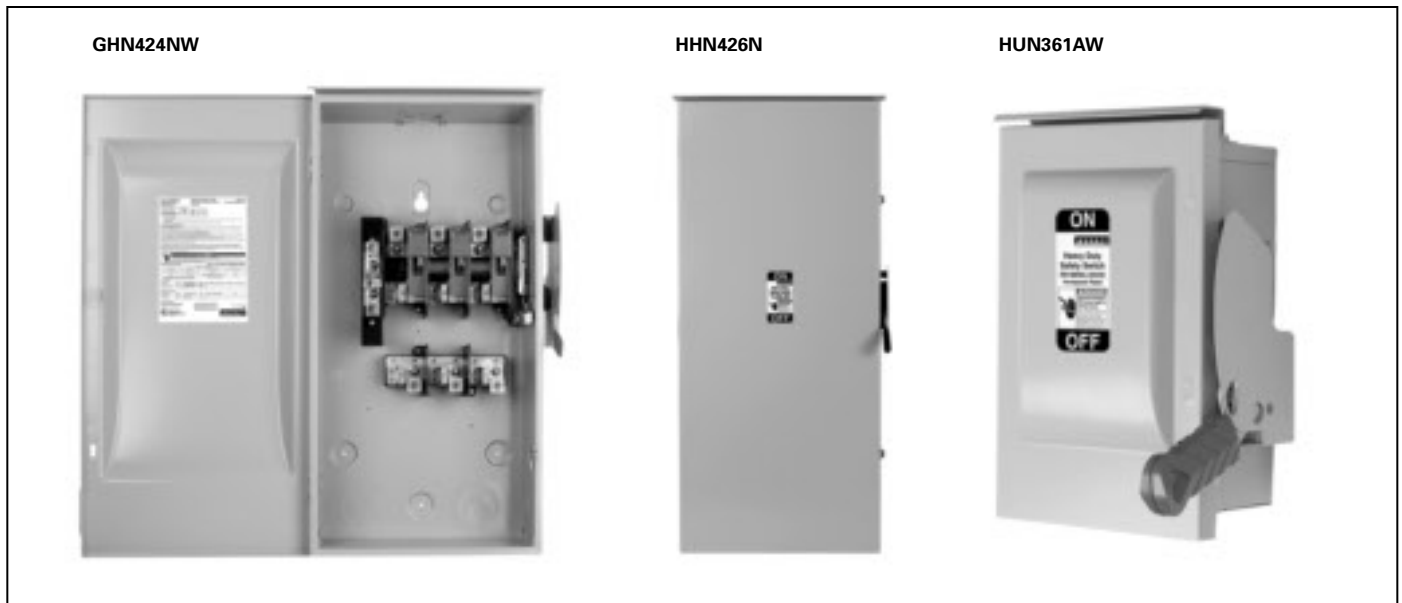


**METERED LIGHTED PAD
MOUNT PEDESTAL**

**4 TEMPORARY POWER
OUTLET PANELS**

Safety Switches

General Description



Passed The Test of Time

All Murray safety switches have passed rigid testing requirements to assure reliable performance. In addition to tests designed and conducted during the development and manufacturing processes, switches have performed successfully in tests witnessed by Underwriters' Laboratories. These tests include those for general purpose safety switches and those designed for more specialized purposes where applicable.

Handle Lock-Off

Heavy duty, "H" series safety switches have a provision to lock the handle in the "OFF" position with a maximum of three padlocks. Doors may be locked closed with a padlock. General duty, "G" series switches may be locked in the "OFF" position with one padlock. There is also a padlock feature for locking the door.

General and Heavy Duty Switches Feature a Time Proven Design

A fast, long lasting switch design with a clean, continuous contact. That's the switching system that gives you on-going reliability. The concept is simple: split the arc to shorten the break distance. Uncomplicated mechanics and common sense design assure reliable performance time after time. All switches through 1200A feature visible blade construction.

Load Break Ratings

All Murray safety switches are UL Listed for load break applications. Included in this process is a series of repeated make and break tests of the switch contacts while carrying the full rated nameplate current and rated voltage.

Horsepower Ratings

Where permitted, all Murray safety switches are UL horsepower Listed. The switch ratings are determined by tests that have been performed successfully in the UL overload test series, including repeated make and break tests of the stalled motor current of the motor for which it is being rated.

Some switches have two or more ratings for a particular voltage and current, and additional ratings if designed for multi-pole applications.

Depending on the switch and its application, various ratings may be assigned. All switches list the ratings on the inside of the cover or the door. The ampere rating and maximum AC voltage rating are always shown on the nameplate on the front of the switch.

Fault Current Performance

Murray Heavy Duty safety switches have successfully passed UL high level fault current tests. This means the risk of mechanical and thermal damage due to high level short circuit currents is minimized due to the reliable switch design.

Suitability tests for service with Class H, R, J, L, and T fuses have been conducted on heavy duty safety switches. Representative switches, with test fuses connected in series with each switch, were subjected to let-throughs in excess of the capacities of the largest fuses acceptable by the switches.

To pass the test, the switch must remain operable after being closed into a high amp available short circuit current. The test fuse is sized so that higher levels of let-through current and energy will be reached than would ever occur during normal usage in the field.

Murray General Duty safety switches have been tested to allow installation on circuits capable of delivering 100,000 AIC of fault current at 240V AC max. with Class R fuses and also with both Class J and T fuses in 100-600A ratings.

Fuse Interchangeability

General Duty Switches, Prefix G,* will accept the following UL class fuses:

- Class H
 - Class K
 - Class R — Requires class "R" fuse kit to maintain UL listing.
 - Class J — 100-600A — field convertible.
 - Class T — with proper adapter kit (100-600A).
- *Except 30 amp plug style switches.

Heavy Duty Switches, Prefix H, will accept the following UL class fuses:

- Class H
- Class K
- Class R — Requires class "R" fuse kit to maintain UL listing.
- Class J — All 30-600A, 600V and 100-600A, 240V switches — field convertible.
- Class L — 800 and 1200A switches only.
- Class T — 100-1200A switches with proper adapter kit.

Gutter Space

"G" and "H" series safety switch gutter dimensions conform to 2008 NEC Article #312.6(A). Top and bottom gutters conform to Table #312.6(B).

Safety Switches

Technical Information

General Duty Switches; Prefix "G"

General duty switches are available in indoor TYPE 1 and outdoor TYPE 3R enclosures. Enclosures can be locked closed and operating handles can be locked "OFF". Series "G" switches have a quick-make, quick-break mechanism. Fusible switches are available in 1 pole S/N, 2 pole S/N and 3 pole S/N configurations. Non-fusible switches are available in 3 pole configurations. General duty switches are limited to 240V AC, 600 Amps max. rating.

All 30 Amp compact fusible and non-fusible "G" prefix switches are rated 10,000 Amp maximum withstand.

All 30–600 Amp "GF" and "GU" prefix switches are suitable for use on systems capable of delivering not more than 100,000 RMS symmetrical Amps of fault current with Class "R" fuses and the appropriate adapter kit installed. These 100–600 Amp "G" prefix switches may also be used on systems capable of delivering not more than 100,000 RMS symmetrical Amps of fault current with "T" fuses and the appropriate adapter kit installed. In addition, 100–600 general duty switches may also be used with J fuses on systems not capable of delivering more than 100,000 RMS symmetrical amperes of fault current. General duty switches are UL Listed for use as service equipment and are horsepower rated for use with motor loads.

General duty enclosed switches are used for light duty applications where loading and switching operations are not excessive.

Heavy Duty Switches, Single Throw; Prefix "H"

Heavy duty switches are available in indoor TYPE 1, outdoor TYPE 3R, Watertight Type 4/4X, and industrial TYPE 12 enclosures. Dual cover interlocks are provided, such that the door cannot be opened with the switch "ON" and the switch cannot be turned "ON" with the door open. A defeat mechanism allows servicing by authorized personnel. Handles may be locked "OFF" with up to 3 padlocks, and doors may be padlocked closed. Mechanism is "TEASE-PROOF" quick-make, quick-break. Fusible switches are available in 2 pole S/N, 3 pole and 3 pole S/N. Non-fusible switches are available in 3 pole.

Suitable for use on systems capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class "J" or "R" fuses are installed except the 800 and 1200A switches, which are

suitable for use on circuits capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class "L" fuses are installed. 100–1200A switches with Class "T" fuses and field adapter kit 200,000 RMS symmetrical rated.

Heavy duty switches are dual horsepower rated and are listed by UL for use as service entrance equipment.

Heavy duty switches are intended for applications where rugged construction, reliable performance, continuity of service and ease of maintenance are required.

Protector-Lock® Switches; Prefix "H"

The Murray Protector-Lock® switch is designed to eliminate shock hazard due to disconnecting heavy duty portable electrical equipment under load. When the switch is in the "ON" position, the safety bar blocks the self-contained receptacle and prevents insertion or removal of the plug. When the switch is "OFF", the bar retracts, allowing insertion or removal of the plug.

Protector-Lock® switches consist of a heavy duty, 30 or 60 Amp, 600V AC, 3 pole fusible or non-fusible enclosed switch, and either Crouse-Hinds® or Arrow Hart® Industrial receptacles.

Applications include industrial plants where portable conveyors and welders are used, and truck terminals where on-board refrigeration units require stand-by power.

Double Throw Switches; Prefix "HD"

Double throw switches are available in TYPE 1 and TYPE 3R enclosures. Covers are dual interlocked with the operating mechanism such that the cover cannot be opened when the switch is in either "ON" position, and the switch handle cannot be moved to either "ON" position if the cover is open. Handle may be padlocked in the "OFF" position. Switching action is quick-make, quick-break in both "ON" positions.

They are available in 30–600 Amp ratings, 240V AC, fusible and non-fusible, two and three pole.

Double throw switches are usually applied as transfer switches to switch a load from one power source to another, but can be field converted to switch one power source between two loads. Switching mechanism is located on line side of fuses allowing for a safer fuse replacement. All are suitable for use as service equipment.

Industry and Government Specifications

Murray enclosed switches meet or exceed the latest revision of the following specifications:

Industry

NEMA

Standard #KS-1-1990

UL-Standard #98

U.S. Government

HD single throw, prefix "H":

Standard #WS-865c type "HD"

HD double throw, prefix "HD":

Standard #WS865c type "NDD"

GD 60–600 Amp, prefix "G":

Standard #WS 865c type "ND";
except where interlock is required.

GD 30 Amp, prefix "G":

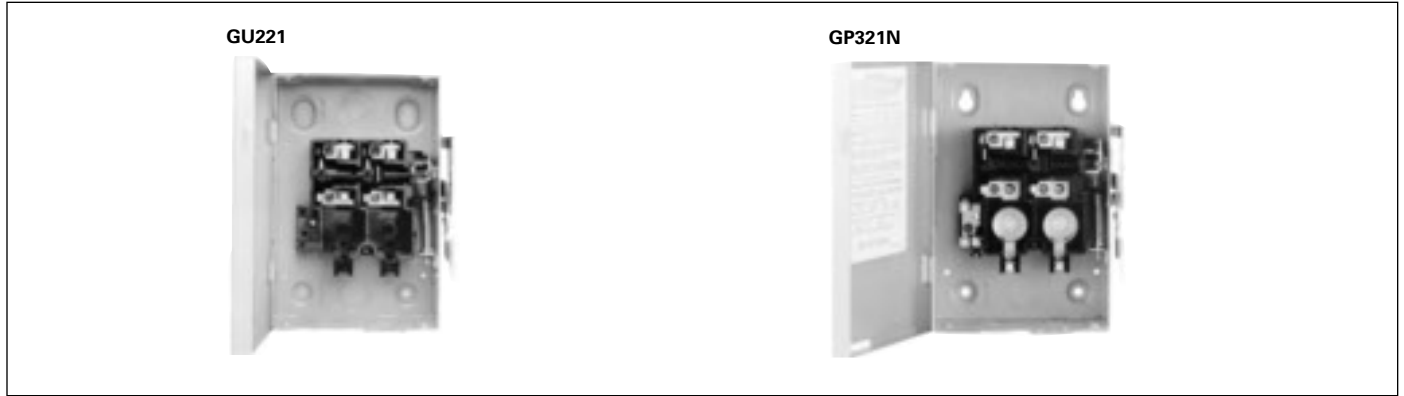
Standard #WS-865c type "ND";
except where interlock is required.

Arrow Hart® and Crouse-Hinds® are registered trademarks of Cooper Industries, Inc.

Protector-Lock® is a registered trademark of Siemens Energy & Automation Inc.

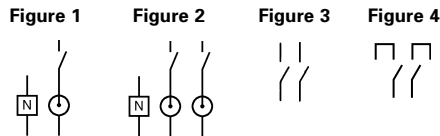
Safety Switches

General Duty Compact — 10,000 Amp Withstand Plug Fuse Type 1 & Type 3R



| | | Indoor TYPE 1 | | | | Outdoor TYPE 3R | | | | Horsepower Rating | | | | | | |
|--|-----------|---------------|-----------|-----------|-------------------|-----------------|-----------|-----------|-------------------|-------------------|-----|------------------|-----|------------------|-----|------------------|
| | | | | | | | | | | Single Phase | | Three Phase | | | | |
| | | | | | | | | | | 120V AC | | 240V AC | | 240V AC | | |
| Symbol | Fuse Type | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Hub | Std | Max ^① | Std | Max ^① | Std | Max ^① |
| 30 AMP FUSIBLE 1 POLE 2 WIRE S/N 120V AC (INSULATED GROUNDABLE NEUTRAL) | | | | | | | | | | | | | | | | |
| Fig-1 | Plug | GP211N | 81.00 | 10 | 33.60 | — | — | — | — | — | ½ | 2 | — | — | — | — |
| 30 AMP FUSIBLE 2 POLE 3 WIRE S/N 240V AC (INSULATED GROUNDABLE NEUTRAL) | | | | | | | | | | | | | | | | |
| Fig-2 | Plug | GP321N | 104.00 | 10 | 37.00 | GP321NW | 207.00 | 5 | 35.00 | ECHA | ½ | 2 | 1½ | 3 | — | — |
| Fig-3 | None | GU221 | 120.00 | 10 | 33.00 | GU221AW | 216.00 | 5 | 35.00 | ECHA | — | 2 | — | 3 | — | — |
| 60 AMP NON-FUSIBLE 2 POLE 240V AC SPECIAL APPLICATION SWITCH | | | | | | | | | | | | | | | | |
| Fig-4 | None | — | — | — | — | GU222AW | 216.00 | 10 | 36.00 | — ^② | — | — | — | 10 | — | — |

Accessories and Lug Data —
See pages 5-11 and 5-12.
Dimensions —
See pages 5-13, 5-14 and 5-15.
Knockout Drawings —
See page 5-16.



Hubs

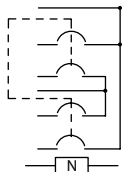
| Conduit Size (Inches) | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg. — 1) |
|-----------------------|---------|-----------|-----------------------------------|
| ¾ | ECHA075 | 39.00 | .10 |
| 1 | ECHA100 | 39.00 | .10 |
| 1¼ | ECHA125 | 39.00 | .10 |

General Duty Stand-by Power Panel



This unique device provides an economical means to transfer from normal to an alternate source of power. It contains two 100A, 2-pole circuit breakers interlocked in a "double throw" configuration and supplies both overload and short circuit protection (10,000 AIC max.). The external handle is padlockable in the OFF position.

| Cat # | List Each ^⑤ | Std. Pkg. | Approx. Wgt. Lbs. | Hub |
|---|------------------------|-----------|-------------------|------|
| 100A 2 POLE 3 WIRE S/N 120/240V AC OUTDOOR TYPE 3R^⑥ | | | | |
| DUL313NW ^⑦ | 590.00 | 1 | 19.00 | ECHS |



① Starting current of motors above standard horsepower rating may require use of time delay fuses.
② Bottom cable entry & exit only.

③ Suitable for service entrance application. Neutral factory installed. UL1008 listed as a non-automatic transfer switch under file #E315030. Suitable for use as Transfer Equipment on optional stand-by systems as defined by Article 702 of the NEC.

④ Wire ranges (75°C Cu/Al)
Line, load & neutral (1) #14-1
Service ground (1) #14-4
⑤ Discount Schedule HDSM.

Safety Switches

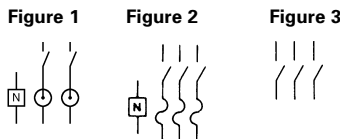
General Duty — 30–600 Amp, 10,000 & 100,000 Amp Withstand Cartridge Fuse
Type 1 & Type 3R



Switch Selection with Class "H" Fuse Holders 30–600 Amps (Convertible to Class "R")^①

| | | Indoor TYPE 1 | | | | Outdoor TYPE 3R | | | | Horsepower Rating | | | | | |
|--|------|-----------------------|-----------|-----------|-------------------|------------------------|-----------|-----------|-------------------|-------------------|-----|------------------|-----|------------------|-----|
| | | | | | | | | | | Single Phase | | Three Phase | | | |
| | | | | | | | | | | 240V AC | | 240V AC | | 250V DC | |
| Symbol | Amps | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Hub | Std | Max ^② | Std | Max ^② | Std |
| FUSIBLE 2 POLE 3 WIRE S/N 240V AC (INSULATED GROUNDABLE NEUTRAL)^{③④⑤} | | | | | | | | | | | | | | | |
| Fig-1 | 30 | GHN321N [®] | 135.00 | 10 | 35.00 | GHN321NW [®] | 215.00 | 10 | 35.00 | ECHA | 1½ | 3 | 3 | 7½ | 5 |
| | 60 | GHN322N [®] | 230.00 | 1 | 14.00 | GHN322NW [®] | 354.00 | 1 | 14.00 | ECHS | 3 | 10 | 7½ | 15 | 10 |
| | 100 | GHN323N [®] | 463.00 | 1 | 23.00 | GHN323NW [®] | 522.00 | 1 | 24.00 | ECHS | 7½ | 15 | 15 | 30 | 20 |
| | 200 | GHN324N [®] | 961.00 | 1 | 47.00 | GHN324NW [®] | 1364.00 | 1 | 48.00 | ECHS | 15 | — | 25 | 60 | 40 |
| | 400 | GHN325NH [®] | 2918.00 | 1 | 128.00 | GHN325NWH [®] | 3954.00 | 1 | 130.00 | ECHV [®] | 15 | — | 50 | 125 | 50 |
| | 400 | GHN325N | 2940.00 | 1 | 153.00 | GHN325NW | 3977.00 | 1 | 157.00 | ECHV [®] | 15 | — | 50 | 125 | 50 |
| | 600 | GHN326NH [®] | 5764.00 | 1 | 133.00 | GHN326NWH [®] | 7311.00 | 1 | 135.00 | ECHV [®] | 15 | — | 75 | 200 | — |
| | 600 | GHN326N | 5795.00 | 1 | 159.00 | GHN326NW | 7345.00 | 1 | 159.00 | ECHV [®] | 15 | — | 75 | 200 | — |
| FUSIBLE 3 POLE 4 WIRE S/N 240V AC (INSULATED GROUNDABLE NEUTRAL)^⑥ | | | | | | | | | | | | | | | |
| Fig-2 | 30 | GHN421N | 215.00 | 5 | 24.00 | GHN421NW | 320.00 | 5 | 24.00 | ECHA | 1½ | 3 | 3 | 7½ | 5 |
| | 60 | GHN422N | 354.00 | 1 | 15.00 | GHN422NW | 481.00 | 1 | 15.00 | ECHS | 3 | 10 | 7½ | 15 | 10 |
| | 100 | GHN423N | 616.00 | 1 | 25.00 | GHN423NW | 890.00 | 1 | 25.00 | ECHS | 7½ | 15 | 15 | 30 | 20 |
| | 200 | GHN424N | 1364.00 | 1 | 49.00 | GHN424NW | 1615.00 | 1 | 50.00 | ECHS | 15 | — | 25 | 60 | 40 |
| | 400 | GHN425NH [®] | 3458.00 | 1 | 136.00 | GHN425NWH [®] | 4170.00 | 1 | 138.00 | ECHV [®] | 15 | — | 50 | 125 | 50 |
| | 400 | GHN425N | 3484.00 | 1 | 158.00 | GHN425NW | 4192.00 | 1 | 162.00 | ECHV [®] | 15 | — | 50 | 125 | 50 |
| | 600 | GHN426NH [®] | 6456.00 | 1 | 138.00 | GHN426NWH [®] | 8661.00 | 1 | 141.00 | ECHV [®] | 15 | — | 75 | 200 | — |
| | 600 | GHN426N | 6491.00 | 1 | 161.00 | GHN426NW | 8697.00 | 1 | 165.00 | ECHV [®] | 15 | — | 75 | 200 | — |
| NON-FUSIBLE 3 POLE 240V AC (SEE PREVIOUS PAGE FOR 2 POLE, 30 AMPS; USE 3 POLE FOR 2 POLE APPLICATION FOR 60–200 AMPS) | | | | | | | | | | | | | | | |
| Fig-3 | 30 | GUN321 | 176.00 | 5 | 24.00 | GUN321AW | 332.00 | 5 | 24.00 | ECHA | — | 3 | — | 7½ | 5 |
| | 60 | GUN322 | 230.00 | 1 | 12.00 | GUN322AW | 494.00 | 1 | 13.00 | ECHS | — | 10 | — | 15 | 10 |
| | 100 | GUN323 | 543.00 | 1 | 23.00 | GUN323AW | 925.00 | 1 | 24.00 | ECHS | — | 15 | — | 30 | 20 |
| | 200 | GUN324 | 940.00 | 1 | 46.00 | GUN324AW | 1595.00 | 1 | 47.00 | ECHS | — | 15 | — | 60 | 40 |

Accessories and Lug Data —
See pages 5-11 and 5-12.
Dimensions —
See pages 5-13, 5-14 and 5-15.
Knockout Drawings —
See pages 5-16 and 5-17.



① "G" Series switches are UL Listed for use on circuits capable of delivering up to 100,000 Amps RMS symmetrical fault currents, provided Class "R" or "T" fuses and appropriate rejection or adapter kits are installed. T-fuses can only be used on 100–600 Amp. 100–600A switches can also be used with Class J fuses.

② Starting current of motors above standard horsepower rating may require use of time delay fuses.
③ These switches are UL Listed for application on grounded B systems.
④ Suitable for 3-pole motor loads.
⑤ Has service entrance label, neutral factory installed.

⑥ 400A and larger Type 3R switches have no provisions for mounting hubs. Drill or punch hole in the field to accommodate hub size desired.
⑦ Height reduced switch (45.25 rather than 56 inches in height) for use with 500MCM or smaller conductors.

Safety Switches

Heavy Duty — 240V AC, 10,000 & 200,000 Amp Withstand Cartridge Fuse Type 1 & Type 3R



Switch Selection with Class "H" Fuse Holders (Convertible to Class "J", "R" or "T")^①

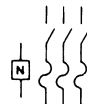
| | | Indoor TYPE 1 | | Outdoor TYPE 3R | | Horsepower Rating | | | | | | | | | |
|---|------|-----------------------|-----------|-----------------|-------------------|------------------------|-----------|-------------|-------------------|-------------------|-----|------------------|-----|------------------|----|
| | | | | | | Single Phase | | Three Phase | | | | | | | |
| | | | | | | 240V AC | 240V AC | 250V DC | | | | | | | |
| Symbol | Amps | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Cat # | List Each | Std. Pkg. | Approx. Wgt. Lbs. | Hub | Std | Max ^③ | Std | Max ^③ | |
| FUSIBLE 2 POLE 3 WIRE S/N 240V AC (INSULATED GROUNDABLE NEUTRAL)^{④⑤⑧} | | | | | | | | | | | | | | | |
| Fig-1 | 30 | HHN321N | 272.00 | 1 | 12.00 | HHN321NW | 516.00 | 1 | 13.00 | ECHS | 1½ | 3 | 3 | 7½ | 5 |
| | 60 | HHN322N | 543.00 | 1 | 18.00 | HHN322NW | 969.00 | 1 | 19.00 | ECHS | 3 | 10 | 7½ | 15 | 10 |
| | 100 | HHN323N | 828.00 | 1 | 23.00 | HHN323NW | 1244.00 | 1 | 24.00 | ECHS | 7½ | 15 | 15 | 30 | 20 |
| | 200 | HHN324N | 1474.00 | 1 | 47.00 | HHN324NW | 1802.00 | 1 | 48.00 | ECHS | 15 | — | 25 | 60 | 40 |
| | 400 | HHN325NH ^⑥ | 3593.00 | 1 | 129.00 | HHN325NWH ^⑥ | 4808.00 | 1 | 131.00 | ECHV ^⑦ | 15 | — | 50 | 125 | 50 |
| | 400 | HHN325N | 3621.00 | 1 | 153.00 | HHN325NW | 4833.00 | 1 | 157.00 | ECHV ^⑦ | 15 | — | 50 | 125 | 50 |
| | 600 | HHN326NH ^⑥ | 6611.00 | 1 | 133.00 | HHN326NWH ^⑥ | 8816.00 | 1 | 135.00 | ECHV ^⑦ | 15 | — | 75 | 200 | — |
| | 600 | HHN326N | 6642.00 | 1 | 155.00 | HHN326NW | 8852.00 | 1 | 159.00 | ECHV ^⑦ | 15 | — | 75 | 200 | — |
| | 800 | HLN327N ^{⑧⑨} | 11783.00 | 1 | 360.00 | — | — | — | — | — | — | — | 100 | 250 | — |
| | 1200 | HLN328N ^{⑧⑨} | 14509.00 | 1 | 362.00 | — | — | — | — | — | — | — | 100 | 250 | — |
| FUSIBLE 3 POLE 4 WIRE S/N 240V AC (INSULATED GROUNDABLE NEUTRAL)^{⑤⑧} | | | | | | | | | | | | | | | |
| Fig-2 | 30 | HHN421N | 356.00 | 1 | 14.00 | HHN421NW | 657.00 | 1 | 15.00 | ECHS | 1½ | 3 | 3 | 7½ | 5 |
| | 60 | HHN422N | 602.00 | 1 | 19.00 | HHN422NW | 1038.00 | 1 | 20.00 | ECHS | 3 | 10 | 7½ | 15 | 10 |
| | 100 | HHN423N | 960.00 | 1 | 25.00 | HHN423NW | 1484.00 | 1 | 26.00 | ECHS | 7½ | 15 | 15 | 30 | 20 |
| | 200 | HHN424N | 1664.00 | 1 | 49.00 | HHN424NW | 2020.00 | 1 | 50.00 | ECHS | 15 | — | 25 | 60 | 40 |
| | 400 | HHN425NH ^⑥ | 4411.00 | 1 | 137.00 | HHN425NWH ^⑥ | 4922.00 | 1 | 138.00 | ECHV ^⑦ | 15 | — | 50 | 125 | 50 |
| | 400 | HHN425N | 4434.00 | 1 | 158.00 | HHN425NW | 4946.00 | 1 | 162.00 | ECHV ^⑦ | 15 | — | 50 | 125 | 50 |
| | 600 | HHN426NH ^⑥ | 7497.00 | 1 | 139.00 | HHN426NWH ^⑥ | 9915.00 | 1 | 142.00 | ECHV ^⑦ | 15 | — | 75 | 200 | — |
| | 600 | HHN426N | 7530.00 | 1 | 161.00 | HHN426NW | 9952.00 | 1 | 165.00 | ECHV ^⑦ | 15 | — | 75 | 200 | — |
| | 800 | HLN427N ^{⑧⑨} | 14407.00 | 1 | 380.00 | HLN427NW ^{⑧⑨} | 18477.00 | 1 | 383.00 | ECHV ^⑦ | — | — | 100 | 250 | — |
| | 1200 | HLN428N ^{⑧⑨} | 17963.00 | 1 | 382.00 | HLN428NW ^{⑧⑨} | 22361.00 | 1 | 385.00 | ECHV ^⑦ | — | — | 100 | 250 | — |

Accessories and Lug Data — See pages 5-11 and 5-12.
 Dimensions — See pages 5-14 and 5-15.
 Knockout Drawings — See pages 5-16 and 5-17.

Figure 1



Figure 2



① Switches through 1200 Amps listed by Underwriters' Laboratories for use on circuits delivering up to 200,000 Amps RMS symmetrical fault current, provided class "R", "J", "L", or "T" fuses are used. Rejection kits must be installed for "R" fuse application. "T" fuse adapter kit required for "T" fuse application. See Accessory Page.
 "J" fuses can only be used on 100-600A ratings.
 "T" fuses can only be used on 100-1200A ratings.

② Factory set for use with class "L" fuses.
 ③ Starting current of motors above standard horsepower rating may require use of time delay fuses.
 ④ Suitable for 3-pole motor loads.
 ⑤ Suitable for service entrance application. Neutral factory-installed.
 ⑥ Supplied without knockouts.

⑦ 400A and larger Type 3R switches have no provisions for mounting hubs. Drill or punch hole in the field to accommodate hub size desired.
 ⑧ Also rated 250V DC
 ⑨ Height reduced switch (45.25 rather than 56 inches in height) for use with 500MCM or smaller conductors.

Safety Switches

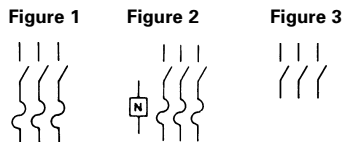
Heavy Duty — 600v AC, 10,000 & 200,000 Amp Withstand Cartridge Fuse Type 1 & Type 3R



Switch Selection with Class "H" Fuse Holders (Convertible to Class "J", "R" or "T")^①

| Indoor TYPE 1 | | | Outdoor TYPE 3R | | | Horsepower Rating | | | | | | | | | | | | |
|--|------|----------------------|-----------------|---------------------------------|------------------------|-------------------|---------------------------------|-------------------|------------|------------------|------------|------------------|---------|------------------|-----|------------------|----|----|
| Symbol | Amps | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | Hub | 480V AC 1Ø | 480V AC 3Ø | 600V AC 1Ø | 600V AC 3Ø | 250V DC | 600V DC | | | | |
| | | | | | | | | | Std | Max ^② | Std | Max ^② | Std | Max ^② | Std | Max ^② | | |
| FUSIBLE 3 POLE 600V AC (NO NEUTRAL)^{③④} | | | | | | | | | | | | | | | | | | |
| Fig-1 | 30 | HHN361 | 602.00 | 14.00 | HHN361AW | 1043.00 | 15.00 | ECHS | 3 | 7½ | 5 | 15 | 3 | 10 | 7½ | 20 | 5 | — |
| | 60 | HHN362 | 717.00 | 19.00 | HHN362AW | 1223.00 | 20.00 | ECHS | 5 | 20 | 15 | 30 | 10 | 25 | 15 | 50 | 10 | 25 |
| | 100 | HHN363 | 1379.00 | 24.00 | HHN363AW | 1895.00 | 25.00 | ECHS | 10 | 30 | 25 | 60 | 15 | 40 | 30 | 75 | 20 | 25 |
| | 200 | HHN364 | 1940.00 | 48.00 | HHN364AW | 2591.00 | 49.00 | ECHS | 25 | 50 | 50 | 125 | 30 | 50 | 60 | 150 | 40 | 50 |
| | 400 | HHN365H ^⑤ | 5168.00 | 136.00 | HHN365AWH ^⑤ | 6230.00 | 137.00 | ECHV ^⑥ | — | — | 100 | 250 | — | — | 350 | 50 | — | — |
| | 400 | HHN365 | 5192.00 | 154.00 | HHN365AW | 6257.00 | 157.00 | ECHV ^⑥ | — | — | 100 | 250 | — | — | 125 | 350 | 50 | — |
| | 600 | HHN366H ^⑤ | 8984.00 | 138.00 | HHN366AWH ^⑤ | 12377.00 | 141.00 | ECHV ^⑥ | — | — | 150 | 400 | — | — | 500 | 50 | — | — |
| | 600 | HHN366 | 9013.00 | 157.00 | HHN366AW | 12404.00 | 217.00 | ECHV ^⑥ | — | — | 150 | 400 | — | — | 200 | 500 | 50 | — |
| | 800 | HLN367 ^⑦ | 15715.00 | 380.00 | HLN367AW ^⑦ | 19054.00 | 382.00 | ECHV ^⑥ | — | — | 200 | 500 | — | — | 200 | 500 | — | — |
| | 1200 | HLN368 ^⑦ | 19847.00 | 383.00 | HLN368AW ^⑦ | 23443.00 | 385.00 | ECHV ^⑥ | — | — | 200 | 500 | — | — | 200 | 500 | — | — |
| FUSIBLE 3 POLE 4 WIRE S/N 480Y / 277V AC (INSULATED GROUNDABLE NEUTRAL)^⑧ | | | | | | | | | | | | | | | | | | |
| Fig-2 | 30 | ③ | — | — | HHN461NW | 1126.00 | 15.00 | ECHS | 3 | 7½ | 5 | 15 | 3 | 10 | 7½ | 20 | 5 | — |
| | 60 | ③ | — | — | HHN462NW | 1305.00 | 20.00 | ECHS | 5 | 20 | 15 | 30 | 10 | 25 | 15 | 50 | 10 | 25 |
| NON-FUSIBLE 3 POLE 600V AC (USE FOR 2 POLE)^{③④⑨} | | | | | | | | | | | | | | | | | | |
| Fig-3 | 30 | HUN361 | 317.00 | 12.00 | HUN361AW | 564.00 | 13.00 | ECHS | 7½ | — | — | 15 | — | 10 | — | 20 | 5 | — |
| | 60 | HUN362 | 564.00 | 18.00 | HUN362AW | 992.00 | 19.00 | ECHS | 20 | — | — | 30 | — | 25 | — | 50 | 10 | 25 |
| | 100 | HUN363 | 916.00 | 23.00 | HUN363AW | 1418.00 | 24.00 | ECHS | 30 | — | — | 60 | — | 40 | — | 75 | 20 | 25 |
| | 200 | HUN364 | 1393.00 | 46.00 | HUN364AW | 1713.00 | 47.00 | ECHS | 50 | — | — | 125 | — | 50 | — | 150 | 40 | 50 |
| | 400 | HUN365 | 3252.00 | 114.00 | HUN365AW | 4353.00 | 118.00 | ECHV ^⑥ | — | — | — | 250 | — | — | — | 350 | 50 | — |
| | 600 | HUN366 | 5795.00 | 116.00 | HUN366AW | 8636.00 | 120.00 | ECHV ^⑥ | — | — | — | 400 | — | — | — | 500 | — | — |

Accessories and Lug Data — See pages 5-11 and 5-12.
 Dimensions — See pages 5-14 and 5-15.
 Knockout Drawings — See pages 5-16 and 5-17.



① Switches through 1200 Amps listed by Underwriters' Laboratories for use on circuits delivering up to 200,000 Amps RMS symmetrical fault current, provided class "R", "J", "L", or "T" fuses are used. Rejection kits must be installed for "R" fuse applications.
 ② Class "L" fuse provision. Single fuse per pole. Supplied without knockouts.
 ③ Order 3 pole switch from chart above, and neutral from accessory page.
 ④ Starting current of motors above standard horsepower rating may require use of time delay fuses.

⑤ For service equipment or applications requiring a solid neutral, order neutral kit as an accessory, page 5-11.
 ⑥ 60-200A switches are also rated 600V DC when 2 poles are connected in series.
 ⑦ 400A and larger Type 3R switches have no provisions for mounting hubs. Drill or punch hole in the field to accommodate hub size desired.
 ⑧ Height reduced switch (45.25 rather than 56 inches in height) for use with 500MCM or smaller conductors.

⑨ Non-fusible switches also have the following max. HP ratings.

| Amps | 1Ø 240V AC | 3Ø 240V AC |
|------|------------|------------|
| 30 | 5 | 10 |
| 60 | 10 | 20 |
| 100 | 15 | 40 |
| 200 | 15 | 60 |
| 400 | 15 | 125 |
| 600 | 15 | 200 |

Safety Switches

Heavy Duty—600V AC, 10,000 & 200,000 Amp Withstand Cartridge Fuse Industrial Type 12 & 4X



Accessories and Lug Data —
See pages 5-11 and 5-12.
Dimensions —
See pages 5-14 and 5-15.

Figure 1



Figure 2



Switch Selection With Class "H" Fuse Holders (Convertible To Class "J", "R" or "T")^①

| Industrial Type 12 | | | | | Horsepower Rating | | | | | |
|---|----------|----------|-----------|---------------------------------|-------------------|------------------|------------|------------------|---------|---------|
| Symbol | Amps | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | 480V AC 3Ø | | 600V AC 3Ø | | 250V DC | 600V DC |
| | | | | | Std | Max ^② | Std | Max ^② | | |
| FUSIBLE 3 POLE 600V AC (NO NEUTRAL)^{③④} | | | | | | | | | | |
| Fig-1 | 30 | HUN361AJ | 1061.00 | 14.00 | 5 | 15 | 7½ | 20 | 5 | — |
| | 60 | HUN362AJ | 1170.00 | 20.00 | 15 | 30 | 15 | 50 | 10 | 25 |
| | 100 | HUN363AJ | 1898.00 | 25.00 | 25 | 60 | 30 | 75 | 20 | 25 |
| | 200 | HUN364AJ | 2657.00 | 49.00 | 50 | 125 | 60 | 150 | 40 | 50 |
| NON-FUSIBLE 3 POLE 600V AC (USE FOR 2 POLE)^{③④⑤⑥} | | | | | | | | | | |
| Fig-2 | 30 | HUN361AJ | 710.00 | 13.00 | — | 20 | — | 30 | 5 | — |
| | 60 | HUN362AJ | 1003.00 | 19.00 | — | 50 | — | 60 | 10 | 25 |
| | 100 | HUN363AJ | 1418.00 | 24.00 | — | 75 | — | 100 | 20 | 25 |
| | 200 | HUN364AJ | 1794.00 | 47.00 | — | 125 | — | 150 | 40 | 50 |
| 400 | HUN365AJ | 4401.00 | 119.00 | — | 250 | — | 350 | 50 | — | |

Type 4X Stainless Steel

| Type 4X Stainless Steel | | | | | Horsepower Rating | | | | | |
|---|------|----------|-----------|---------------------------------|-------------------|------------------|------------|------------------|---------|---------|
| Symbol | Amps | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | 480V AC 3Ø | | 600V AC 3Ø | | 250V DC | 600V DC |
| | | | | | Std | Max ^② | Std | Max ^② | | |
| FUSIBLE 3 POLE 240V AC (NO NEUTRAL)^{③④} | | | | | | | | | | |
| Fig-1 | 30 | HUN321AS | 2524.00 | 14.00 | ③ | ⑤ | — | — | 5 | — |
| | 60 | HUN322AS | 2893.00 | 20.00 | ③ | ⑤ | — | — | 10 | — |
| FUSIBLE 3 POLE 600V AC (NO NEUTRAL)^{③④} | | | | | | | | | | |
| Fig-1 | 30 | HUN361AS | 2842.00 | 13.00 | 5 | 15 | 7½ | 20 | 5 | — |
| | 60 | HUN362AS | 3048.00 | 20.00 | 15 | 30 | 15 | 50 | 10 | 25 |
| | 100 | HUN363AS | 5965.00 | 25.00 | 25 | 60 | 30 | 75 | 20 | 25 |
| | 200 | HUN364AS | 8477.00 | 49.00 | 50 | 125 | 60 | 150 | 40 | 50 |
| NON-FUSIBLE 3 POLE 600V AC (NO NEUTRAL)^{③④⑤⑥} | | | | | | | | | | |
| Fig-2 | 30 | HUN361AS | 2337.00 | 13.00 | — | 20 | — | 30 | 5 | — |
| | 60 | HUN362AS | 2745.00 | 19.00 | — | 50 | — | 60 | 10 | 25 |
| | 100 | HUN363AS | 5510.00 | 24.00 | — | 75 | — | 100 | 20 | 25 |
| | 200 | HUN364AS | 7503.00 | 47.00 | — | 125 | — | 150 | 40 | 50 |

① Switches through 400 Amps listed by Underwriters' Laboratories for use on circuits delivering up to 200,000 Amps RMS symmetrical fault current, provided class "J", "R" or "T" fuses are used. Rejection kits must be installed for "R" fuse applications.

② Starting current of motors above standard horsepower rating may require use of time delay fuses.

③ For service equipment or applications requiring a solid neutral, order neutral kit as an accessory, page 5-11.

④ Use 3 pole switch for 2 pole applications.

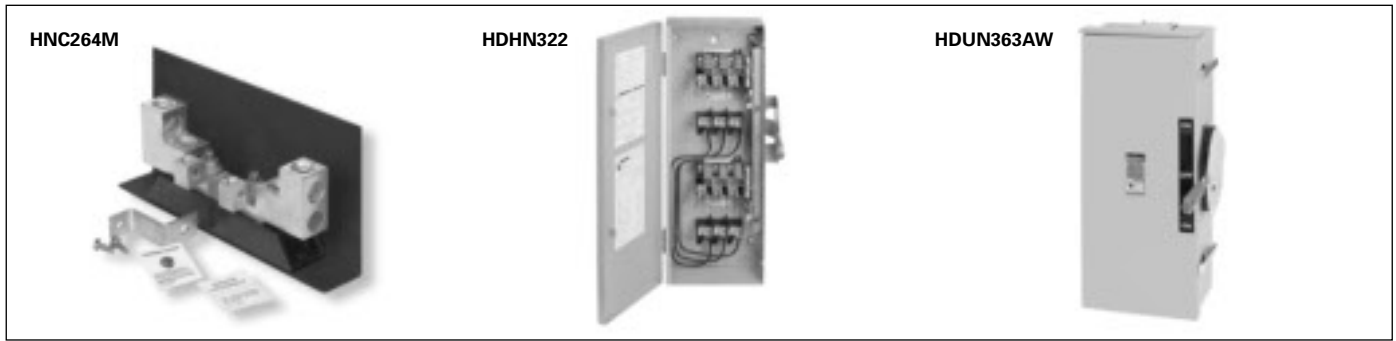
⑤ 240V 3Ø HP ratings are as follows:

| Amps | HP Std | HP Max. Fusible | HP Max. Non-Fusible |
|------|--------|-----------------|---------------------|
| 30 | 3 | 7½ | 10 |
| 60 | 7½ | 15 | 20 |
| 100 | 15 | 30 | 40 |
| 200 | 25 | 60 | 60 |

⑥ 60-200A switches are also rated 600V DC when 2 poles are connected in series.

Safety Switches

VBII Type Double Throw Switches Type 1 & Type 3R



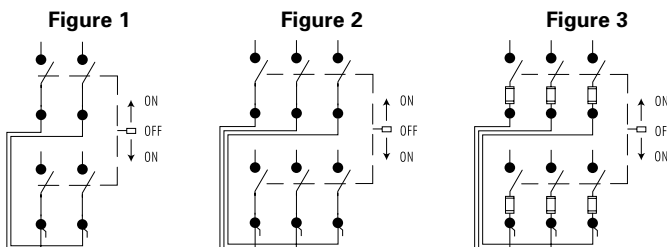
Double Throw Switches ①⑧

| Indoor TYPE 1 | | | | Outdoor TYPE 3R ② | | | | Horsepower Rating | | | | | |
|-----------------------------------|------|----------------------|-----------|-------------------|------------------------|-----------|-------------------|-------------------|--------|--------|--------|------------------|--------------|
| Symbol | Amps | Cat # | List Each | Approx. Wgt. Lbs. | Cat # | List Each | Approx. Wgt. Lbs. | Hub | 1Ø Std | 1Ø Max | 3Ø Std | 3Ø Max | 250 V DC Std |
| NON-FUSIBLE 2 POLE 240V AC | | | | | | | | | | | | | |
| Fig-1 ③ | 30 | HDUN221 | 712.00 | 33.00 | — | — | — | — | — | 5 | — | — | 5 |
| | 60 | HDUN222 | 1126.00 | 35.00 | — | — | — | — | — | 10 | — | — | 10 |
| | 100 | HDUN223 | 1574.00 | 37.00 | — ^⑦ | — | — | — | — | 15 | — | — | 20 |
| | 200 | HDUN224 | 2189.00 | 79.00 | HDUN224AW ^⑦ | 2794.00 | 79.00 | ECHS | — | 15 | — | — | 40 |
| | 400 | HDUN225 | 6128.00 | 180.00 | HDUN225AW | 9135.00 | 185.00 | ② | — | — | — | — | 50 |
| NON-FUSIBLE 3 POLE 240V AC | | | | | | | | | | | | | |
| Fig-2 ③ | 30 | HDUN321 | 843.00 | 34.00 | — | — | — | — | — | 5 | — | 10 | 5 |
| | 60 | HDUN322 | 1347.00 | 36.00 | — | — | — | — | — | 10 | — | 20 | 10 |
| | 100 | HDUN323 | 2039.00 | 37.00 | HDUN323AW ^⑦ | 2566.00 | 38.00 | ECHS | — | 15 | — | 40 | 20 |
| | 200 | HDUN324 | 3142.00 | 82.00 | HDUN324AW ^⑦ | 3888.00 | 82.00 | ECHS | — | 15 | — | 60 | 40 |
| | 400 | HDUN325 | 8924.00 | 190.00 | — | — | — | — | — | — | — | 125 | 50 |
| FUSIBLE 3 POLE 240V AC | | | | | | | | | | | | | |
| Fig-3 ③ | 30 | HDHN321 | 1300.00 | 38.00 | HDHN321AW | 2074.00 | 39.00 | ECHS | — | 3 | — | 7½ | 5 |
| | 60 | HDHN322 | 2431.00 | 43.00 | HDHN322AW | 3262.00 | 44.00 | ECHS | — | 10 | — | 15 | 10 |
| | 100 | HDHN323 | 3863.00 | 45.00 | HDHN323AW | 4606.00 | 46.00 | ECHS | — | 15 | — | 30 | 20 |
| | 200 | HDHN324 | 5996.00 | 92.00 | — | — | — | — | — | 15 | — | 60 | 40 |
| | 400 | HDHN325 ^④ | 13236.00 | 230.00 | — | — | — | — | — | — | — | 125 | 50 |
| NON-FUSIBLE 3 POLE 600V AC | | | | | | | | | | | | | |
| Fig-2 ③ | 30 | HDUN361 | 1038.00 | 34.00 | HDUN361AW | 1856.00 | 35.00 | ECHS | — | 5 | — | 20 ^⑤ | 5 |
| | 60 | HDUN362 | 1357.00 | 36.00 | HDUN362AW | 2234.00 | 37.00 | ECHS | — | 10 | — | 50 ^⑤ | 10 |
| | 100 | HDUN363 | 2300.00 | 37.00 | HDUN363AW | 3781.00 | 38.00 | ECHS | — | 15 | — | 75 ^⑤ | 20 |
| | 200 | HDUN364 | 3314.00 | 82.00 | HDUN364AW | 5206.00 | 82.00 | ECHS | — | 15 | — | 125 ^⑤ | 40 |
| | 400 | HDUN365 | 9258.00 | — | HDUN365AW | 13925.00 | 195.00 | ② | — | — | — | 250 ^⑤ | 50 |
| | 600 | — | — | — | HDUN366AW | 18119.00 | 200.00 | ② | — | — | — | 250 ^⑤ | 50 |

Neutral Kits

For use with Double Throw Switches

| Switch Amps | Cat # | List Each |
|-------------|---------|-----------|
| 30 | HNC612M | 103.00 |
| 60-100 | HN263M | 239.00 |
| 200 | HNC264M | 373.00 |
| 400-600A | HN678M | 888.00 |



- ① Rated 10,000 AIC with Class H or 200,000 AIC when used with or protected by Class R, J or T fuses. Fuse rating must not exceed switch ampere rating.
- ② 400A and larger double throw switches do not have a hub provision.
- ③ Typical wiring diagrams for 30-200 amp switches are shown.
- ④ Switch accepts Class J or T fuses only.

Fuse Capabilities of Fusible Switches

| Amp Rating | Fuse Type | | | |
|------------|-----------|-----------|------------------|------------------|
| | H | R | T | J |
| 30 & 60 A | Std | Yes (kit) | No | No |
| 100 & 200A | Std | Yes (kit) | Yes (kit) | Yes ^⑥ |
| 400 | No | No | Yes ^⑥ | Std. |

Double Throw Switches – Lug Data

| Switch Amp Range | Number of Cables Per Terminal | Cu and/or Al | Wire Range |
|------------------|-------------------------------|--------------|-------------------|
| 30 | 1 pc. | Cu or Al | #14 to #6 |
| 60 | 1 pc. | Cu or Al | #14 to #2 |
| 100 | 1 pc. | Cu or Al | #14 to #1/0 |
| 200 | 1 pc. | Cu or Al | #6 to 250 kcmil |
| 400 | 2 pcs. | Cu or Al | #1/0 to 250 kcmil |
| | 1 pc. | Cu or Al | #1/0 to 750 kcmil |
| 600 | 2 pcs. | Cu or Al | #1/0 to 500 kcmil |

- ⑤ HP ratings at 480V.
- ⑥ Move load side base.
- ⑦ General Duty Double Throw Switches are also available in 100 and 200A ratings. Contact sales for additional info.
- ⑧ A 100A 2P General Duty Stand-by Power Panel is also available on page 5-4.

Safety Switches

Protector-Lock® Switches



Protector-Lock® Switches With Arrow Hart® Power Lock® Receptacles

Industrial Enclosure

| Symbol | Switch Amps | Recept Amps | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | Use Plug # ^② |
|---------------------------------------|-------------|-------------|-----------------------|-----------|---------------------------------|-------------------------|
| FUSIBLE, 3 POLE 600V AC SWITCH | | | | | | |
| Fig-1 | 30 | 30 | HHN361KJ | 2042.00 | 17.00 | AX103S 20415S |
| | 60 | 30 | HHN362KJ ^① | 2079.00 | 17.00 | AX103S 20415S |
| | 60 | 60 | HHN362LJ | 2466.00 | 17.00 | 26415S |

Protector-Lock® Switches With Crouse-Hinds® Receptacles

Industrial Type 12

| Symbol | Switch Amps | Recept Amps | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) | Use Plug # ^② |
|---|-------------|-------------|----------|-----------|---------------------------------|-------------------------|
| FUSIBLE, 3 POLE 600V AC SWITCH (STYLE 2 RECEPTACLE, 4 WIRE, ONE WIRE GROUNDED) | | | | | | |
| Fig-1 | 60 | 60 | HHN362CJ | 2611.00 | 30.00 | APJ6485 |
| NON-FUSIBLE, 3 POLE 600V AC SWITCH (STYLE 2 RECEPTACLE, 4 WIRE, ONE WIRE GROUNDED) | | | | | | |
| Fig-2 | 60 | 60 | HUN362CJ | 2462.00 | 29.00 | APJ6485 |

Figure 1

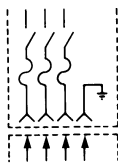
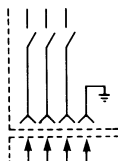


Figure 2



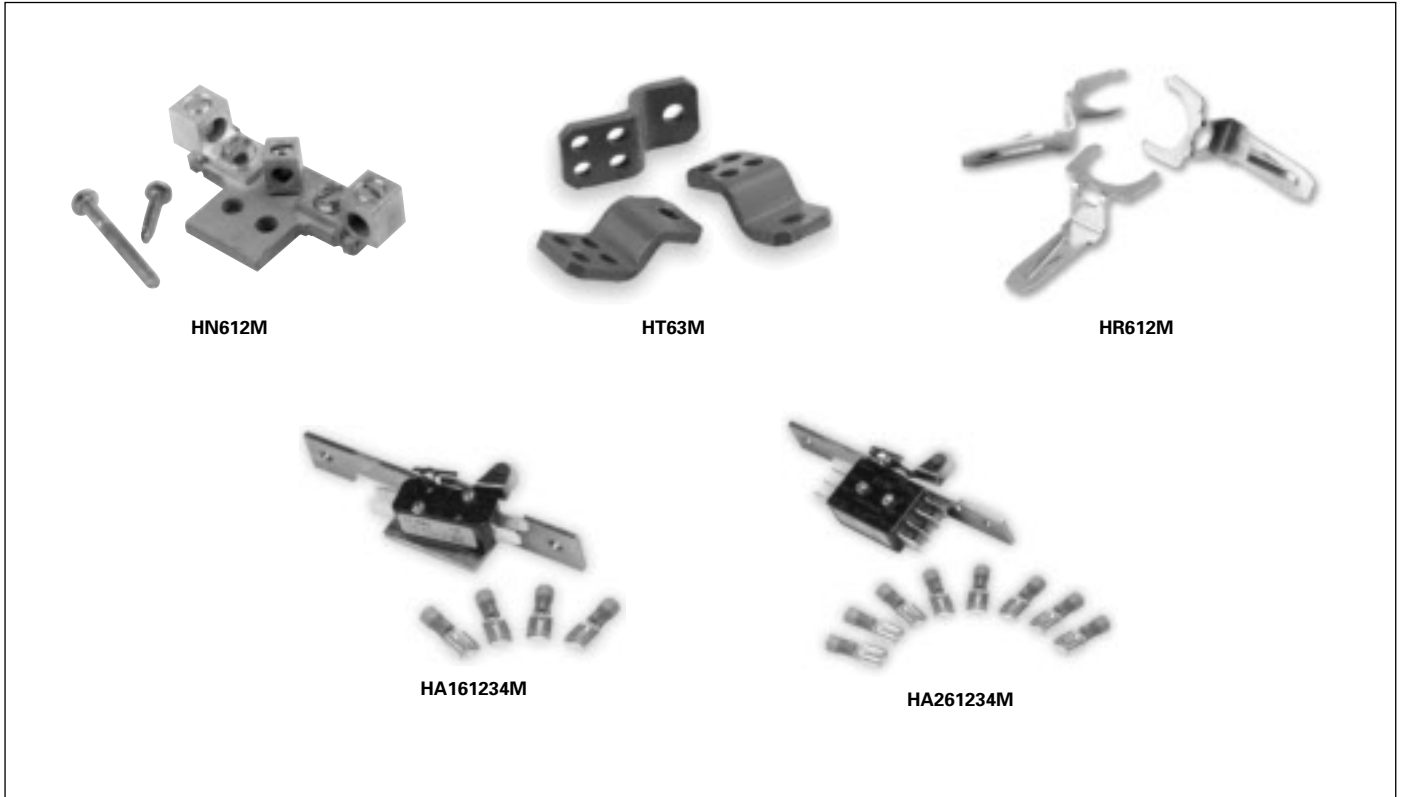
Accessories and Lug Data —
See pages 5-11 and 5-12.
Dimensions —
See pages 5-14 and 5-15.

^①Not UL listed.
^②See Accessories page 5-12 for plug selection.

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Protector-Lock® is a registered trademark of Siemens Energy & Automation, Inc.

Safety Switches

Accessories



Neutral Kits^①

Standard Neutral Kits can be field installed in General and Heavy Duty Switches.

| Switch Ampere Rating | Kit Catalog Number | List Each |
|----------------------|--------------------|-----------|
| 30 GD | W410190M | 73.00 |
| 30 HD, 60 GD | HN612M | 103.00 |
| 60, 100 HD, 100 GD | HN623M | 197.00 |
| 200 | HN64M | 190.00 |
| 400 & 600 | HN656M | 462.00 |
| 800 & 1200 VBII | HN678M | 888.00 |

Class T Fuse Adapter Kits^③

All 200-600A, General Duty and 100-1200A Heavy Duty Switches are field convertible to accept Class T fuses. All new 400-600A switches are field convertible to accept Class T fuses by moving the load base to a pre-drilled T fuse position.

| Catalog Number | Description | List Each |
|--------------------|-----------------|-----------|
| HT23M ^② | 100A, 240V Kit | 81.00 |
| HT63M | 100A, 600V Kit | 127.00 |
| HT24M ^② | 200A, 240V Kit | 108.00 |
| HT64M | 200A, 600V Kit | 152.00 |
| HX327TF | 800A, 240V Kit | 217.00 |
| HX367TF | 800A, 600V Kit | 237.00 |
| HX328TF | 1200A, 240V Kit | 542.00 |

Class R Fuse Clip Kits^②

| Catalog Number | Description | List Each |
|----------------|-----------------------------|-----------|
| GSRK321M | 30A, 240V Kit (GD only) | 28.50 |
| HR21M | 30A, 240V Kit (HD only) | 88.00 |
| HR612M | 30A, 600V Kit/60A, 240V Kit | 88.00 |
| HR62M | 60A, 600V Kit | 88.00 |
| HR63M | 100A Kit | 57.00 |
| HR64M | 200A Kit | 57.00 |
| HR656M | 400A/600A Kit | 145.00 |

Equipment Ground Kits

Equipment Ground Lug Kits are available for all General Duty, Heavy Duty and Double Throw Switches. They are field installable in Type 1 and Type 3R Switches and are factory installed as standard in Type 4/4X and Type 12 Switches.

| Switch Ampere Rating | Catalog Number | Number of Terminals | Wire Range Per Terminal (Cu/Al) | List Each |
|----------------------|----------------|---------------------|---------------------------------|-----------|
| 30A GD | GSGK60M | 2 | #14-8 AWG | 25.50 |
| 60-200 GD | HG61234M | 2 | #14-4 AWG | 25.50 |
| 30-200 HD | HG61234M | 2 | #14-4 AWG | 25.50 |
| 400 & 600 | HG656M | 4 | #6 AWG-250 Kcmil | 130.00 |
| 800-1200 | HG678M | 8 | #6 AWG-250 Kcmil | 253.00 |

Class J Fuse

All 100-600A General Duty and 600V 30-600A Heavy Duty Switches are field convertible to accept Class J fuses by moving the load base to a pre-drilled J fuse position.

① All neutral kits are provided with a grounding lug and also contain a bonding provision.

② One kit per switch required for General and Heavy Duty switches. Two kits required per Double Throw Switch.

③ (1) kit per pole required.

② 100 and 200A Double Throw switches are also convertible from H to T fuses by using (6) kits per switch.

Safety Switches

Accessories & Lug Data

Type VBII 3R Hubs^① (60-600A GD 30-1200A HD)

| Conduit Size (Inches) | Cat # | List Each | Std. Pkg. | Ship. Wgt. (Std. Pkg.) | For Use on Switches Rated |
|-----------------------|---------|-----------|-----------|------------------------|---------------------------|
| ¾ | ECHS075 | 42.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 1 | ECHS100 | 42.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 1¼ | ECHS125 | 42.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 1½ | ECHS150 | 42.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 2 | ECHS200 | 73.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 2½ | ECHS250 | 116.00 | 1 | .50 | 30-200A HD, 60-200AGD |
| 2½ | ECHV250 | 133.00 | 1 | 1.00 | 400-1200A ^{②③} |
| 3 | ECHV300 | 193.00 | 1 | 1.00 | 400-1200A ^{②③} |
| 3½ | ECHV350 | 291.00 | 1 | 1.00 | 400-1200A ^{②③} |
| 4 | ECHV400 | 385.00 | 1 | 1.00 | 400-1200A ^{②③} |

Auxiliary Contacts^⑦

Auxiliary Contacts are available only for Heavy Duty and Double Throw Switches. The auxiliary contacts are available in 1 normally open and 1 normally closed or 2 normally open and 2 normally closed configurations. All auxiliary contacts make after and break before the main switch contacts.

| Switch Ampere Rating | Aux. Switch Catalog Number | List Each | Kit Ampere Rating | | | Kit Horsepower Rating | | |
|----------------------|----------------------------|-----------|-------------------|--------------|-------------|-----------------------|--------------|-------------|
| | | | 125V AC Max. | 250V AC Max. | 28V DC Max. | 125V AC Max. | 250V AC Max. | 28V DC Max. |

With 1 NO & 1 NC Isolated Contacts

| | | | | | | | | |
|----------|-----------|--------|----|----|---|-----|-----|---|
| 30-200 | HA161234M | 253.00 | 10 | 10 | - | 1/2 | 3/4 | - |
| 400-1200 | HA165678M | 622.00 | 10 | 10 | - | 1/2 | 3/4 | - |

With 2 NO & 2 NC Isolated Contacts

| | | | | | | | | |
|----------|-----------|--------|----|----|---|-----|-----|---|
| 30-200 | HA261234M | 375.00 | 10 | 10 | 7 | 1/2 | 3/4 | - |
| 400-1200 | HA265678M | 651.00 | 10 | 10 | 7 | 1/2 | 3/4 | - |

Compact & 30A GD Switch Hubs

| Conduit Size (Inches) | Cat # | List Each | Approx. Wgt. Lbs. (Std. Pkg.—1) |
|-----------------------|---------|-----------|---------------------------------|
| ¾ | ECHA075 | 39.00 | .10 |
| 1 | ECHA100 | 39.00 | .10 |
| 1¼ | ECHA125 | 39.00 | .10 |

Plugs for Protector-Lock[®] Switches

| Cat # | Net Price Each ^② | Approx. Wgt. Lbs. (Std. Pkg.—1) | Rating | Description |
|---------|-----------------------------|---------------------------------|--------------|---|
| APJ6485 | 222.00 | 5.00 | 60A, 600V AC | High impact strength, copper-free aluminum. Accepts 0.64-1.37" diameter cord. |
| AX103S | 179.00 | .80 | 30A, 600V AC | Armored steel with cord grip. Accepts 0.562-1.000" diameter cord. |

Closure Plates

| Cat # | List Each | Rating |
|--------------------|-----------|-----------|
| ECHS000 | 40.50 | ⑥ |
| ECHV000 | 25.00 | 400-1200A |
| HVHRA ^⑥ | 32.50 | 400-1200A |

General & Heavy Duty Switches Lug Data

30-100A Switches are suitable for use with 60° or 75°C wire. 100-1200A are suitable for use with 75°C rated wire.

Wire Ranges (Line, Load and Standard Neutral)

| Switch Ampere Rating | Wire Range with Wire-Bending Space Per NEC Table 373-6 | Lug Range |
|----------------------|--|--|
| 30 GD | #14-8 AWG (Cu/Al) ^⑧ | #14-8 AWG (Cu/Al) ^⑧ |
| 30 | #12-6 AWG (Al) or #14-6 AWG (Cu) | #14-2 AWG (Cu/Al) |
| 60 | #12-3 AWG (Al) or #14-3 AWG (Cu) | #14-2 AWG (Cu/Al) |
| 100 | #14-1/0 AWG (Cu/Al) | #14-1/0 AWG (Cu/Al) |
| 200 | #6 AWG-300 Kcmil (Cu/Al) | #6 AWG-300 Kcmil (Cu/Al) |
| 400 ^⑨ | 1/0 AWG-750 Kcmil (Cu/Al) or (2) 1/0 AWG-250 Kcmil (Cu/Al) | (1) 1/0 AWG-750 Kcmil (Cu/Al) or (2) 1/0 AWG-250 Kcmil (Cu/Al) |
| 600 ^⑨ | (2) 3/0 AWG-750 Kcmil (Cu/Al) or (4) 3/0 -250 Kcmil (Cu/Al) | (2) 1/0 AWG-750 Kcmil (Cu/Al) or (4) 1/0 AWG-250 Kcmil (Cu/Al) |
| 800 | (3) 3/0 AWG-750 Kcmil (Cu/Al) Line and Load or (6) 3/0 AWG-250 Kcmil (Cu/Al) (4) 1/0 AWG-750 Kcmil (Cu/Al) neutral | (3) 1/0 AWG-750 Kcmil (Cu/Al) Line and Load or (6) 1/0 AWG-600 Kcmil (Cu/Al) neutral (4) 1/0 AWG-750 Kcmil (Cu/Al) neutral |
| 1200 | (4) 3/0 AWG-750 Kcmil (Cu/Al) or (4) 1/0 AWG-600 Kcmil (Cu/Al) neutral | (4) 1/0 AWG-750 Kcmil (Cu/Al) Line and Load (4) 1/0 AWG-600 Kcmil (Cu/Al) neutral |

① Also for 30-200 double throw switches. Not for use on compact switches.

② Net Price. No discount.

③ 400A and larger Type 3R switches have no provisions for mounting hubs. Drill or punch hole in the field to accommodate hub size desired.

④ HV to HR adapter plate. Order ECHR series hub separately.

⑤ For gasket kit for HV type hub order catalog number HVGKM (\$7.40 list price).

⑥ 60-200A GD, 30-200A HD

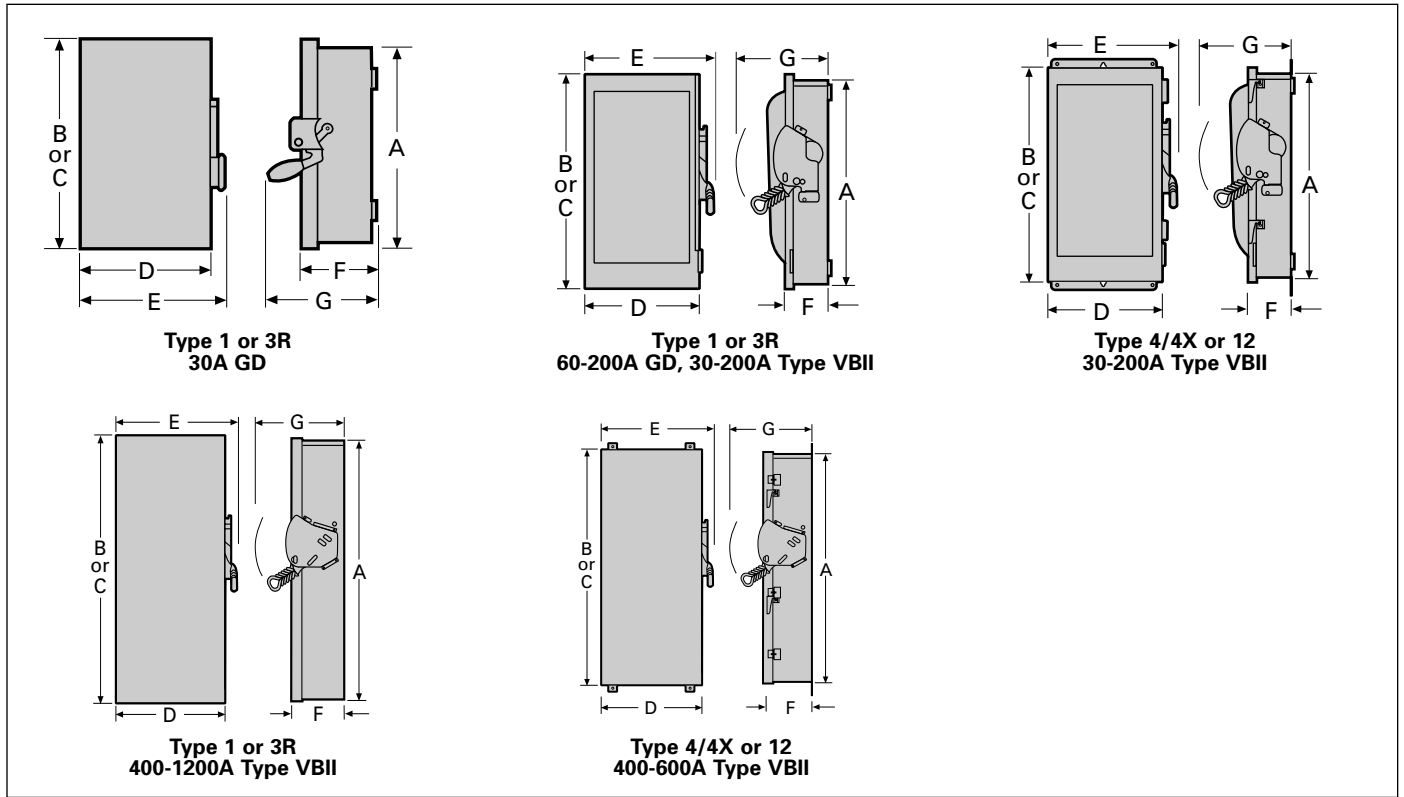
⑦ Two auxiliary contacts required per double throw switch.

⑧ Connector will accept up to #6; conductors on line side and retain UL listing. Also applies to 30 compact switches.

⑨ Max. wire size for height reduced switches is 500 kcmil (Cu/Al).

Safety Switches

Dimensions — Compact Switches, General Duty Switches



Safety Switch Dimensions²

| Catalog Number | Height | | | Width | | Depth | | Knockout Diagram ¹ |
|----------------|--------|-----------|----------------|-------|-------------|-------|-------------|-------------------------------|
| | Box | With Door | With Rain Shed | Box | With Handle | Box | With Handle | |
| | A | B | C | D | E | F | G | |
| GHN321N | 7.97 | 8.13 | — | 5.50 | 5.94 | 3.00 | 5.88 | S1 |
| GHN321NW | 8.07 | — | 8.16 | 5.16 | 5.94 | 3.13 | 5.88 | S3 |
| GHN322N | 14.26 | 15.45 | — | 6.64 | 8.70 | 5.05 | 8.63 | S6 |
| GHN322NW | 14.39 | — | 15.76 | 6.64 | 8.70 | 5.05 | 8.63 | S8 |
| GHN323N | 21.95 | 23.15 | — | 9.64 | 11.70 | 5.05 | 8.63 | S10 |
| GHN323NW | 21.95 | — | 23.46 | 9.64 | 11.67 | 5.05 | 8.70 | S11 |
| GHN324N | 29.90 | 31.07 | — | 14.62 | 16.68 | 6.36 | 10.92 | S12 |
| GHN324NW | 29.90 | — | 31.42 | 14.61 | 16.68 | 6.36 | 10.92 | S13 |
| GHN325N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN325NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN325NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN325NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN326N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN326NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN326NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN326NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN421N | 7.97 | 8.19 | — | 7.19 | 7.69 | 3.00 | 5.88 | S2 |
| GHN421NW | 8.07 | — | 8.16 | 7.19 | 8.16 | 3.13 | 5.88 | S4 |
| GHN422N | 14.26 | 15.45 | — | 6.64 | 8.70 | 5.05 | 8.63 | S6 |
| GHN422NW | 14.39 | — | 15.76 | 6.64 | 8.70 | 5.05 | 8.63 | S8 |
| GHN423N | 21.95 | 23.15 | — | 9.64 | 11.70 | 5.05 | 8.63 | S10 |
| GHN423NW | 21.95 | — | 23.46 | 9.64 | 11.67 | 5.05 | 8.70 | S11 |
| GHN424N | 29.90 | 31.07 | — | 14.62 | 16.68 | 6.36 | 10.92 | S12 |
| GHN424NW | 29.90 | — | 31.42 | 14.61 | 16.68 | 6.36 | 10.92 | S13 |
| GHN425N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN425NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN425NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN425NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN426N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN426NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| GHN426NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GHN426NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| GP211N | 7.97 | 8.13 | — | 5.50 | 5.94 | 3.00 | 5.38 | S2 |
| GP321N | 7.97 | 8.13 | — | 5.50 | 5.94 | 3.00 | 5.38 | S1 |
| GP321NW | 8.07 | — | 8.16 | 5.16 | 5.94 | 3.13 | 5.38 | S3 |
| GU221 | 7.97 | 8.13 | — | 5.50 | 5.94 | 3.00 | 5.88 | S1 |

¹Knocks not provided on Type 4/4X and 12 or in 800 & 1200A Switches.

²Accurate to ±1/8".

Safety Switches

Dimensions — General & Heavy Duty Switches

Safety Switch Dimensions^②

| Catalog Number | Height ^④ | | | Width | | Depth | | Knockout Diagram ^① |
|-----------------------|---------------------|-----------|----------------|-------|-------------|-------|-------------|-------------------------------|
| | Box | With Door | With Rain Shed | Box | With Handle | Box | With Handle | |
| | A | B | C | D | E | F | G | |
| GU221AW | 8.07 | — | 8.16 | 5.16 | 5.94 | 3.13 | 5.38 | S5 |
| GU222AW | 8.07 | — | 8.16 | 5.22 | 5.94 | 2.94 | 5.38 | S5 |
| GUN321 | 7.97 | 8.19 | — | 7.19 | 7.69 | 3.00 | 5.88 | S2 |
| GUN321AW | 8.07 | — | 8.16 | 7.19 | 7.69 | 3.13 | 5.88 | S4 |
| GUN322 | 11.11 | 12.31 | — | 6.64 | 8.71 | 5.05 | 8.61 | S7 |
| GUN322AW | 11.11 | — | 12.62 | 6.64 | 8.71 | 5.05 | 8.61 | S9 |
| GUN323 | 21.95 | 23.15 | — | 9.64 | 11.70 | 5.05 | 8.63 | S10 |
| GUN323AW | 21.95 | — | 23.46 | 9.64 | 11.67 | 5.05 | 8.70 | S11 |
| GUN324 | 29.90 | 31.07 | — | 14.62 | 16.68 | 6.36 | 10.92 | S12 |
| GUN324AW | 29.90 | — | 31.42 | 14.61 | 16.68 | 6.36 | 10.92 | S13 |
| HHN321AS | 14.27 | 15.45 | — | 6.65 | 9.02 | 5.32 | 10.46 | — |
| HHN321N | 14.26 | 15.45 | — | 6.64 | 9.01 | 5.05 | 10.17 | S6 |
| HHN321NW | 14.39 | — | 15.77 | 6.64 | 9.01 | 5.05 | 10.17 | S8 |
| HHN322AS | 16.27 | 19.31 | — | 9.17 | 11.47 | 5.33 | 10.46 | — |
| HHN322N | 16.26 | 17.46 | — | 9.15 | 11.53 | 5.05 | 10.17 | S16 |
| HHN322NW | 16.26 | — | 17.77 | 9.16 | 11.53 | 5.05 | 10.17 | S17 |
| HHN323N | 21.95 | 23.15 | — | 9.64 | 12.01 | 5.05 | 10.17 | S10 |
| HHN323NW | 21.95 | — | 23.46 | 9.64 | 11.97 | 5.05 | 10.17 | S11 |
| HHN324N | 29.90 | 31.07 | — | 14.62 | 16.98 | 6.36 | 12.33 | S12 |
| HHN324NW | 29.90 | — | 31.42 | 14.61 | 16.99 | 6.36 | 12.33 | S13 |
| HHN325N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN325NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN325NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN325NWH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN326N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN326NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN326NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN326NWH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S15 |
| HHN361 | 14.26 | 15.45 | — | 6.64 | 9.01 | 5.05 | 10.17 | S6 |
| HHN361AJ | 14.27 | 15.45 | — | 6.65 | 9.02 | 5.32 | 10.46 | — |
| HHN361AS | 14.27 | 15.45 | — | 6.65 | 9.02 | 5.32 | 10.46 | — |
| HHN361AW | 14.39 | 15.45 | 15.77 | 6.64 | 9.01 | 5.05 | 10.17 | S8 |
| HHN362 | 16.26 | 17.46 | — | 9.15 | 11.53 | 5.05 | 10.17 | S16 |
| HHN362AJ | 16.27 | 17.46 | — | 9.17 | 11.47 | 5.33 | 10.46 | — |
| HHN362AW | 16.26 | — | 17.77 | 9.16 | 11.53 | 5.05 | 10.17 | S17 |
| HHN362AS | 16.27 | 17.46 | — | 9.17 | 11.47 | 5.33 | 10.46 | — |
| HHN362CJ ^③ | 16.27 | 17.46 | — | 9.10 | 11.47 | 5.33 | 10.46 | — |
| HHN361KJ ^③ | 14.27 | 15.45 | — | 6.65 | 9.02 | 5.32 | 10.46 | — |
| HHN362KJ ^③ | 16.27 | 17.46 | — | 9.10 | 11.47 | 5.33 | 10.46 | — |
| HHN362LJ ^③ | 16.27 | 17.46 | — | 9.10 | 11.47 | 5.33 | 10.46 | — |
| HHN363 | 21.95 | 23.15 | — | 9.64 | 12.01 | 5.05 | 10.17 | S10 |
| HHN363AJ | 21.96 | 23.16 | — | 9.65 | 12.02 | 5.34 | 10.46 | — |
| HHN363AS | 21.96 | 23.16 | — | 9.65 | 12.02 | 5.34 | 10.46 | — |
| HHN363AW | 21.95 | — | 23.46 | 9.64 | 11.97 | 5.05 | 10.17 | S11 |
| HHN364 | 29.90 | 31.07 | — | 14.62 | 16.98 | 6.36 | 12.33 | S12 |
| HHN364AJ | 29.96 | 31.07 | — | 14.62 | 16.95 | 6.63 | 12.58 | — |
| HHN364AS | 29.96 | 31.07 | — | 14.62 | 16.95 | 6.63 | 12.58 | — |
| HHN364AW | 29.90 | — | 31.42 | 14.61 | 16.99 | 6.36 | 12.33 | S13 |
| HHN365 | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN365H | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN365AW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN365AWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN366 | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN366H | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN366AW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN366AWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN421N | 14.26 | 15.45 | — | 6.64 | 9.01 | 5.05 | 10.17 | S6 |
| HHN421NW | 14.39 | — | 15.77 | 6.64 | 9.01 | 5.05 | 10.17 | S8 |
| HHN422N | 16.26 | 17.46 | — | 9.15 | 11.53 | 5.05 | 10.17 | S16 |
| HHN422NW | 16.26 | — | 17.77 | 9.16 | 11.53 | 5.05 | 10.17 | S17 |
| HHN423N | 21.95 | 23.15 | — | 9.64 | 12.01 | 5.05 | 10.17 | S10 |
| HHN423NW | 21.95 | — | 23.46 | 9.64 | 11.97 | 5.05 | 10.17 | S11 |
| HHN424N | 29.90 | 31.07 | — | 14.62 | 16.98 | 6.36 | 12.33 | S12 |
| HHN424NW | 29.90 | — | 31.42 | 14.61 | 16.99 | 6.36 | 12.33 | S13 |
| HHN425N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN425NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN425NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN425NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN426N | 56.00 | 56.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN426NH | 45.25 | 45.82 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HHN426NW | 56.07 | — | 57.19 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN426NWH | 45.31 | — | 46.44 | 24.64 | 26.70 | 9.23 | 14.68 | S15 |
| HHN461NW | 14.39 | — | 15.77 | 6.64 | 9.01 | 5.05 | 10.17 | S8 |
| HHN462NW | 16.26 | — | 17.77 | 9.16 | 11.53 | 5.05 | 10.17 | S17 |
| HLN327N | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN328N | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN367 | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN367AW | 66.25 | — | 67.36 | 38.40 | 39.96 | 9.24 | 14.68 | — |

①Knocks not provided on Type 4/4X and 12 or in 800 & 1200A Switches.

②Dimensions are for switch less receptacle and mounting feet.

③Accurate to ±1/8".

④Dimensions are less mounting feet on Type 12 and 4X switches.

Safety Switches

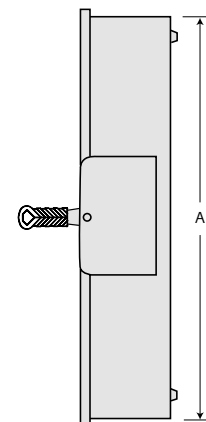
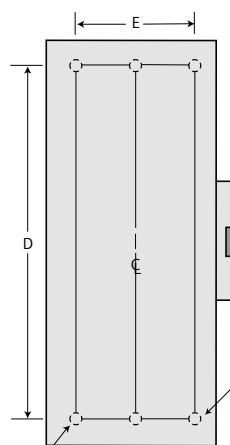
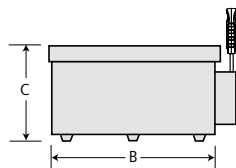
Dimensions — General & Heavy Duty Switches, Protector-Lock® Switches, Double Throw Switches

Safety Switch Dimensions^{③④}

| Catalog Number | Height | | | Width | | Depth | | Knockout Diagram ^① |
|-----------------------|--------|-----------|----------------|-------|-------------|-------|-------------|-------------------------------|
| | Box | With Door | With Rain Shed | Box | With Handle | Box | With Handle | |
| | A | B | C | D | E | F | G | |
| HLN368 | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN368AW | 66.25 | — | 67.36 | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN427N | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN427NW | 66.25 | — | 67.36 | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN428N | 66.25 | 66.82 | — | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HLN428NW | 66.25 | — | 67.36 | 38.40 | 39.96 | 9.24 | 14.68 | — |
| HUN361 | 11.11 | 12.31 | — | 6.64 | 9.01 | 5.05 | 10.17 | S7 |
| HUN361AJ | 11.12 | 12.31 | — | 6.65 | 9.02 | 5.56 | 10.46 | — |
| HUN361AW | 11.11 | — | 12.63 | 6.64 | 9.01 | 5.05 | 10.17 | S9 |
| HUN361AS | 11.12 | 12.31 | — | 6.65 | 9.02 | 5.56 | 10.46 | — |
| HUN362 | 16.26 | 17.46 | — | 9.15 | 11.53 | 5.05 | 10.17 | S16 |
| HUN362AJ | 16.27 | 17.46 | — | 9.17 | 11.47 | 5.33 | 10.46 | — |
| HUN362AW | 16.26 | — | 17.77 | 9.16 | 11.53 | 5.05 | 10.17 | S17 |
| HUN362AS | 16.27 | 17.46 | — | 9.17 | 11.47 | 5.33 | 10.46 | — |
| HUN362CJ ^② | 16.26 | 17.46 | — | 9.17 | — | 5.33 | 10.46 | — |
| HUN363 | 21.95 | 23.15 | — | 9.64 | 12.01 | 5.05 | 10.17 | S10 |
| HUN363AJ | 21.96 | 23.16 | — | 9.65 | 12.02 | 5.34 | 10.46 | — |
| HUN363AS | 21.96 | 23.16 | — | 9.65 | 12.02 | 5.34 | 10.46 | — |
| HUN363AW | 21.95 | — | 23.46 | 9.64 | 11.97 | 5.05 | 10.17 | S11 |
| HUN364 | 29.90 | 31.07 | — | 14.62 | 16.98 | 6.36 | 12.33 | S12 |
| HUN364AJ | 29.96 | 31.07 | — | 14.62 | 16.95 | 6.63 | 12.58 | — |
| HUN364AS | 29.96 | 31.07 | — | 14.62 | 16.95 | 6.63 | 12.58 | — |
| HUN364AW | 29.90 | — | 31.42 | 14.61 | 16.99 | 6.36 | 12.33 | S13 |
| HUN365 | 44.00 | 44.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HUN365AJ | 44.14 | 44.57 | — | 24.82 | 26.44 | 9.19 | 14.64 | — |
| HUN365AW | 44.07 | — | 45.19 | 24.64 | 26.95 | 9.23 | 14.68 | S15 |
| HUN366 | 44.00 | 44.57 | — | 24.64 | 26.21 | 9.23 | 14.68 | S14 |
| HUN366AW | 44.07 | — | 45.19 | 24.64 | 26.95 | 9.23 | 14.68 | S15 |

VBI Design Double Throw Dimensions (Inches)^⑤

| Catalog Number | Enclosure | | | Mounting | | |
|--|-----------|-------|------|----------|-------|-------|
| | A | B | C | D | E | F |
| (30-600A Type 1 & 3R)^⑤ | | | | | | |
| HDUN221, HDUN321, HDUN361, HDUN361AW | 24.50 | 9.53 | 6.09 | 19.00 | 6.75 | 0.268 |
| HDHN321, HDHN321AW | 29.12 | 9.53 | 6.09 | 23.50 | 6.75 | 0.268 |
| HDUN222, HDUN322, HDUN362, HDUN362AW | 24.88 | 11.50 | 6.09 | 19.00 | 9.38 | 0.268 |
| HDHN322, HDHN322AW | 33.53 | 11.50 | 6.09 | 27.50 | 9.38 | 0.268 |
| HDUN223, HDUN323, HDUN323AW, HDUN363, HDUN363AW | 27.62 | 12.18 | 6.09 | 19.36 | 8.00 | 0.268 |
| HDHN323, HDHN323AW | 36.44 | 12.18 | 6.09 | 28.11 | 8.00 | 0.268 |
| HDUN224, HDUN324, HDUN224AW, HDUN324AW, HDUN364, HDUN364AW | 36.00 | 19.12 | 6.42 | 31.02 | 15.00 | 0.44 |
| HDHN324 | 49.48 | 19.12 | 6.42 | 44.50 | 15.00 | 0.44 |
| HDHN325 | 74.00 | 28.38 | 9.38 | 65.50 | 16.00 | 0.56 |
| HDUN225, HDUN325, HDUN225AW, HDUN365, HDUN365AW, HDUN366AW | 57.78 | 28.38 | 9.38 | 49.75 | 16.00 | 0.56 |



- ① Knockouts not provided on Type 4/4X and 12 or on 800 & 1200A switches.
- ② Dimensions are for switch-less receptacle & mounting feet.
- ③ Accurate to $\pm \frac{1}{8}$ ".
- ④ For dimensions in millimeters, multiply inches by 25.4.
- ⑤ Drip hood not shown but supplied on Type 3R enclosures.

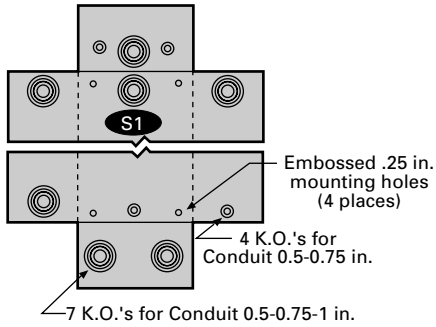
This mounting hole omitted on 30-100A Non-Fusible switches

(6) "F" Dia. mounting holes (30-200A)
(4) "F" Dia. mounting holes (400-1200A)

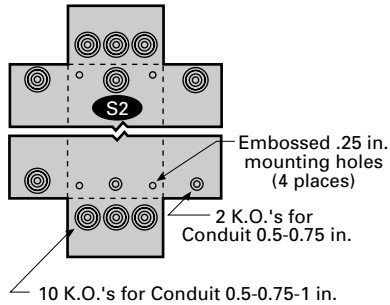
Safety Switches

Knockout Drawings

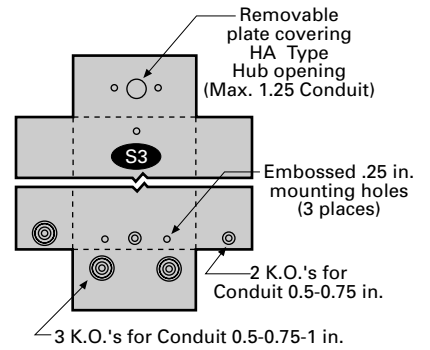
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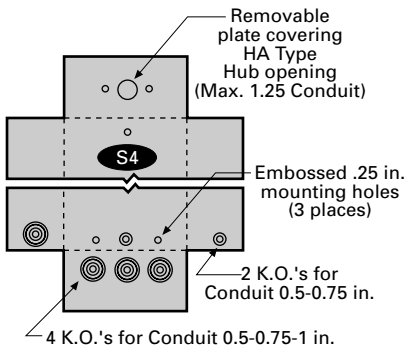
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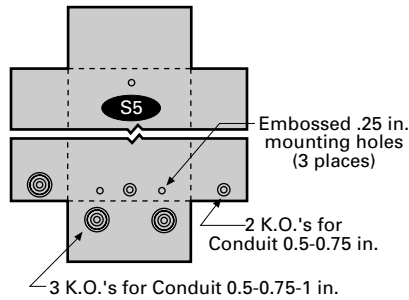
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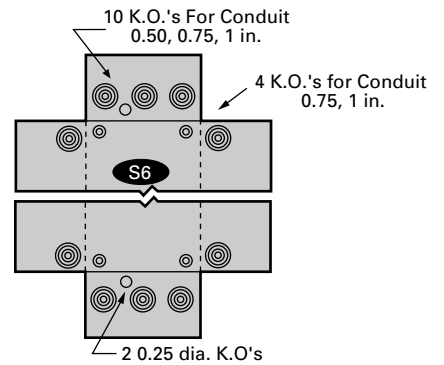
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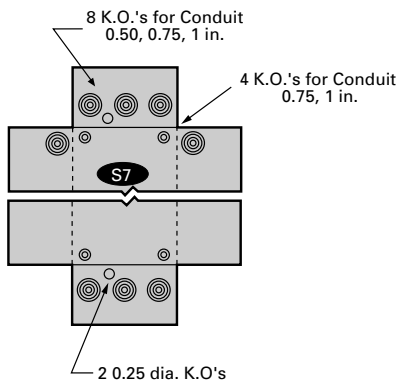
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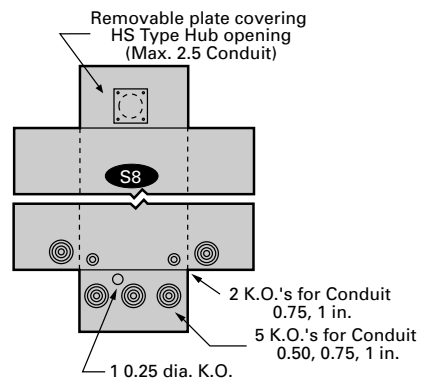
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S7

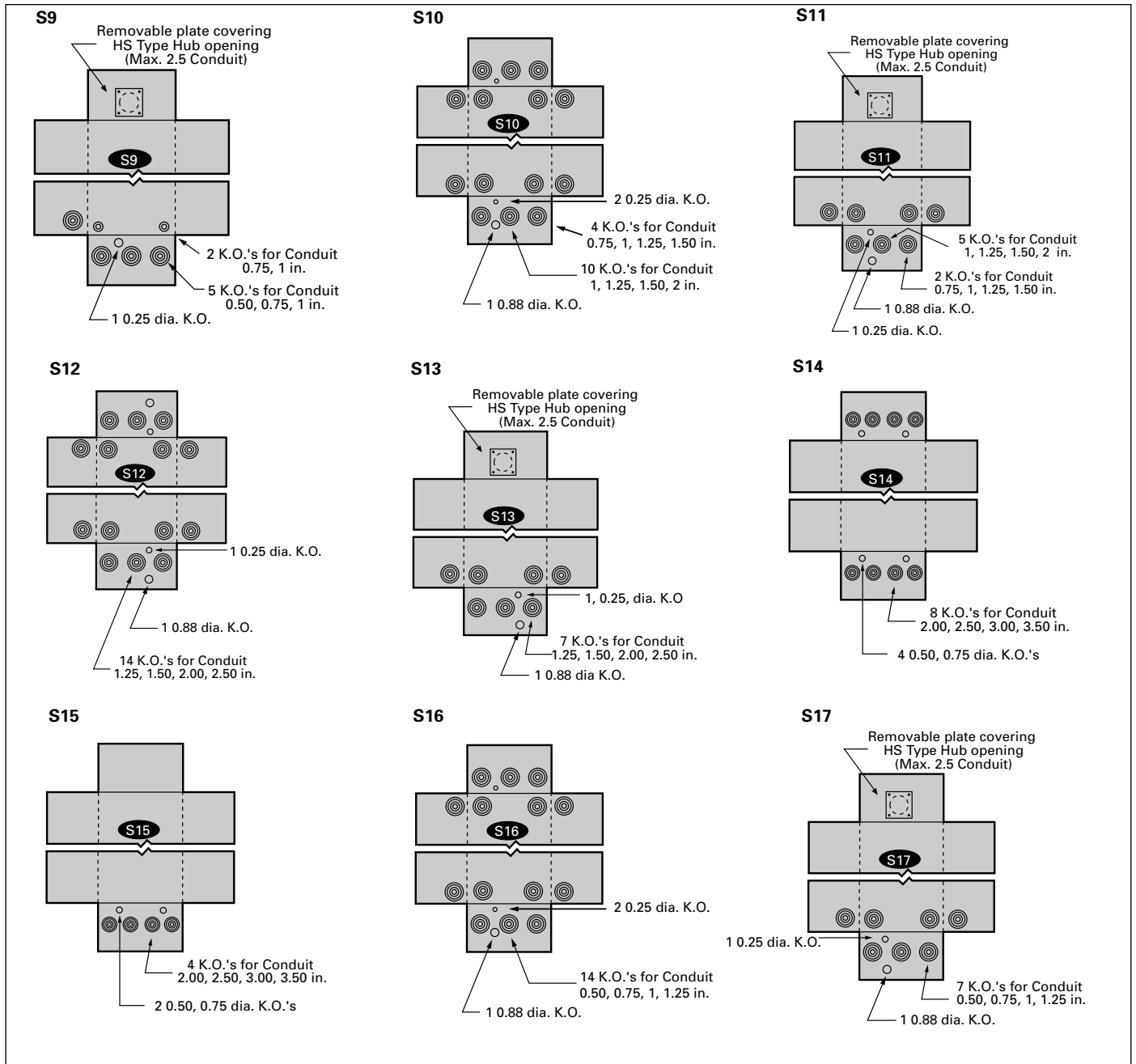


S8



Safety Switches

Knockout Drawings



Standby Power Systems **NEW**

Standby Power Systems

Siemens offers a complete line of standby power systems. From standby power generators, portable generators, transfer switches, and manual transfer kits, Siemens has all of your back up power needs covered. You can count on Siemens to deliver high quality, industry leading designs. Our standby generators are designed for quiet operation with sound attenuated enclosures, specially designed fans and radiators, and a high tech enclosure material that provides excellent sound absorption.

Standby Generators

- Powered by natural gas or liquid propane vapor
- Permanently attached to the house via a fuel line and conductors hard wired to the load center
- Completely automatic – detects power outages and switches power over to the generator (automatic transfer switch required)
- Restores power to pre-selected circuits or entire building
- Returns power to utility once restored
- Self tests weekly
- Available in 7 to 150 kW units, single and three phase



Automatic Transfer Switches

- Completes the automatic system
- Once activated by the generator controller, switches load to and from generator
- Available in 100 to 800A versions, single and three phase, indoor and outdoor



Portable Generators

- Gasoline fueled
- 15 and 17.5 kW units available, single phase
- Provided with 7 various receptacles and circuit protection



Mechanical Interlock Kits

- Interlocks two main breakers together (generator and utility) such that both cannot be "ON" at the same time
- Wide variety of kits available to convert most Siemens load centers and meter combinations into standby power panels



For more information including a detailed selection and application guide, generator sizing guides, cut sheets, detailed dimensions, owner's manuals, and other useful information, visit our web site at www.sea.siemens.com/generators. For technical support, call (800) 844-0029.

Standby Power Systems

Standby Generators

7 through 150 kW
 1-Phase, 120/240 Volts AC
 3-Phase, 120/208 Volts AC
 3-Phase, 277/480 Volts AC

Features and Ratings

- UL 2200 Listed
- Natural gas or liquid propane vapor options
- Composite mounting pad provided on air cooled units
- Automatic Transfer Switch compatibility:
 Air cooled units compatible with "ST" and "SR" type
 20-60 kW units compatible with "SR" type
 70-150 kW units compatible with "X" type
- 16 kW units and larger are provided with the patented Quiet Test™ feature. This feature allows the generator to run at lower RPM's during the weekly test cycle, greatly reducing noise pollution.
- Rugged, textured paint finish provides superior corrosion resistance
- Aluminum enclosure option ideal for harsh environments



Liquid Cooled Generator



Air Cooled Generator

Catalog Logic Table

| | Standby Power Generators | kW Ratings | Voltage | Fuel | Enclosure | Speed |
|---------------|--------------------------|------------|--|--------------------------------------|-----------------------|------------------------------|
| | | | R=1Ø 120/240V C=3Ø 120/208V J=3Ø 120/240V I=3Ø 277/480V | G=Natural Gas P=Propane B=Both | S=Steel A=Aluminum | Blank=3600 RPM L=1800 RPM |
| Air Cooled | SG | 007 | R | B | S | |
| | | 010 | R | B | S | |
| | | 013 | R | B | S | |
| | | 016 | R | B | S, A | |
| | | 018 | R | B | A | |
| Liquid Cooled | SG | 018 | R, C | B | A | L |
| | | 020 | R, C, J | B | S | |
| | | 025 | R, C, J | B | S | |
| | | 025 | R, C, J | B | A | L |
| | | 030 | R, C, J | B | S | |
| | | 035 | R, C, J, I | B | A | L |
| | | 045 | R, C, J, I | B | S | |
| | | 045 | R, C, J, I | B | A | L |
| | | 060 | R, C, J, I | G, P | S, A | |
| | | 070 | R, C, J, I | G, P | S, A | L |
| | | 080 | R, C, J, I | G, P | S, A | |
| | | 100 | R, C, J, I | G, P | S, A | |
| | | 100 | R, C, J, I | G, P | S, A | L |
| | | 130 | R, C, J, I | G, P | S, A | |
| | | 150 | R, C, J, I | G, P | S, A | |

Generator Information

| Dimensions (inches) | Controller Type | Cooling System | Transfer Switch Compatibility |
|---------------------|-----------------|----------------|-------------------------------|
| 48 x 24 x 29 | R | Air | ST, SR |
| 48 x 24 x 29 | R | Air | ST, SR |
| 48 x 24 x 29 | R | Air | ST, SR |
| 48 x 24 x 29 | R | Air | ST, SR |
| 48 x 24 x 29 | R | Air | ST, SR |
| 62 x 29 x 33 | R | Liquid | SR |
| 72 x 30 x 38 | R | Liquid | SR |
| 72 x 30 x 38 | R | Liquid | SR |
| 77 x 33 x 45 | R | Liquid | SR |
| 77 x 34 x 46 | R | Liquid | SR |
| 77 x 33 x 45 | R | Liquid | SR |
| 77 x 34 x 46 | R | Liquid | SR |
| 77 x 33 x 45 | R | Liquid | SR |
| 89 x 34 x 48 | H | Liquid | X |
| 77 x 33 x 45 | H | Liquid | X |
| 116 x 37 x 55 | H | Liquid | X |
| 116 x 37 x 55 | H | Liquid | X |
| 116 x 37 x 55 | H | Liquid | X |
| 116 x 37 x 55 | H | Liquid | X |
| 116 x 37 x 55 | H | Liquid | X |

Catalog number example

Requirements:

- Standby Generator
- 35 kW
- 3-Phase, 120/208 V~
- Natural Gas
- Aluminum Enclosure

| | | | | |
|-----------|------------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 |
| SG | 035 | C | B | A |

Example = SG035CBA

Standby Power Systems

Standby Generator Controllers

Siemens standby generators are provided with controllers. The primary purpose of the controller is to monitor utility power, operate the automatic transfer switch, control the weekly self test cycle, and to monitor the generator for any potential system faults. There are two types of controllers, the "R" and "H" types.

"R" Type Controller



The "R" type controller is provided on all 7 through 60 kW generators. These controllers are compatible with the "ST" and "SR" type transfer switches. Built in governor control is provided, along with LED displays for potential system faults.

The automatic transfer switch, which is sold separately, is controlled by the R controller.

Control Functions

- Full system monitoring
 - Oil Pressure
 - Coolant Temperature
 - Engine Speed
 - Coolant Level
 - Cranking Time
 - Starter Lockout
 - Utility Sensing
 - Quiet Test™

LED Indicators

- Over Speed
- Over Crank
- Low Oil Pressure
- High Coolant Temperature
- Low Coolant Level
- Low Fuel Pressure
- Low Battery Voltage
- Quiet Test™ Control

"H" Type Controller



The "H" type controller is provided on all 70 through 150 kW generators. These controllers are compatible with the "X" type transfer switches.

Control Functions

- All R control functions plus:
 - Full range standby operation
 - Full system status
 - 3Ø AC Volts and current
 - Alternator frequency
 - kW, kVA, power factor
 - Fuel pressure
 - Alarms and warnings
 - Transfer switch status
 - Operating hours
 - Service reminders
 - Trending
 - Utility Sensing
 - Fault protection for generator windings
 - 3Ø sensing voltage regulator
 - Isochronous speed regulation

System Features

- Two 4-line 20-character LCD displays
- Engine governor and voltage regulator built into controller
- Hermetically sealed circuit board in a die-cast aluminum enclosure
- Waterproof connections
- Audible alarm
- Service-friendly diagnostics
- Built in PLC for user I/O's
- Integrated automatic transfer switch controller for Siemens "X" type transfer switches
- Advanced engine sensors eliminate false signals and interference
- Quiet-Test™ control
- Industry standard 2-wire start

Standby Power Systems

Portable Generators

Portable Generators

Portable generators are contained in a steel frame with wheels for easy relocation. The generators are powered by gasoline stored in a provided gas tank. These generators are ideal for locations where space or local codes do not allow a permanently installed standby generator. They are also great for construction site temporary power, eliminating the need for temporary power poles and utility hook ups.

Features and Ratings

- Provided with 7 receptacles
 - 12V DC, 10A
 - 120V AC, 20A Duplex
 - 120V AC, 20A Duplex GFCI
 - 120V AC, 30A Locking Type (2)
 - 120/240V AC, 30A Locking Type
 - 120/240V AC, 50A
- Full pressure lubrication
- Single point lifting
- Spin-on oil filter
- Automatic idle control
- Dimensions (in): 39 x 31 x 49
- 16 gallon fuel tank
- Low oil pressure shutdown
- Solid state voltage regulator
- GFCI protection
- Anti-vibration system
- Circuit breakers included
- Battery charge cables
- Maintenance free battery
- Full 1-1/4" tubular frame
- Wheel kit
- Electronic governor
- Tune-up kit

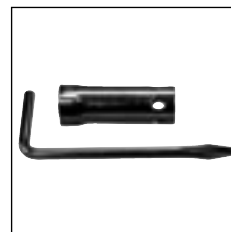
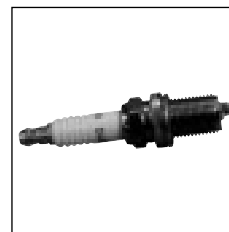
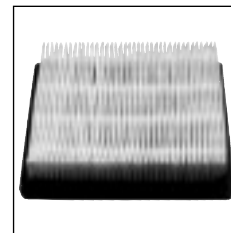
| Catalog Number | PG015 | PG017 [Ⓢ] |
|--|--------------|--------------------|
| Rated Power | 15 kW | 17.5 kW |
| Surge | 22.5 kW | 26.2 kW |
| Rated Amps @ 60Hz 120/240, 1Ø, 1.0 pf | 62.5 | 73.0 |
| Engine RPM | 3,600 | 3,600 |
| Engine Cooling | Air | Air |
| Fuel Capacity (gallons) | 16 | 16 |
| Dimensions (inches) | 39 x 31 x 49 | 39 x 31 x 49 |
| Weight (lbs) | 450 | 475 |



Standby and Portable Generator Maintenance Kits

Maintenance Kits

Generators require routine servicing just like any other engine. It is recommended that the oil and filters be changed once a year, or every 100 hours of use, whichever ever comes first. Maintenance kits are provided for each engine type and include an oil filter, air filter, spark plugs, and tools.



| Catalog Number | Description | Usage |
|----------------|------------------------|----------------------|
| GENMKIT1 | Oil and air filter kit | 7 kW |
| GENMKIT2 | Oil and air filter kit | 10 kW |
| GENMKIT3 | Oil and air filter kit | 13, 16 kW |
| GENMKIT4 | Oil and air filter kit | 20 kW |
| GENMKIT5 | Oil and air filter kit | 25 kW |
| GENMKIT6 | Oil and air filter kit | 35, 45 kW |
| GENMKIT7 | Oil and air filter kit | 60 kW |
| GENMKIT8 | Oil and air filter kit | 70, 80, 130, 150 kW |
| GENMKIT9 | Oil and air filter kit | 100 kW |
| GENPAINT | Touch up paint | All devices |
| PORTMKIT1 | Oil and air filter kit | Portable 15, 17.5 kW |

[Ⓢ] The 17.5 kW portable generator is provided with a manual transfer kit. The kit includes a load center (G2020L1125CU), factory installed interlock kit (ECSBPk01), a 50A utility main, 50A generator main, a

mixture of branch circuits, a 15' power cord, and an inlet box as shown. The kit is not sold separately and is not provided on the 15 kW portable generator.

Standby Power Systems

Transfer Switches

Automatic Transfer Switches

There are 3 types of transfer switches. "ST" type transfer switches are provided with branch circuits are compatible with the air cooled generators. "SR" type are compatible with generators containing the "R" type controller (7-60 kW). The "X" type transfer switches are compatible with the "H" type controller (70-150 kW generators).

Transfer Switch Catalog Number Logic

| Transfer Type | Enclosure Type T=Indoor R=Outdoor | Amperage | Voltage R= 120/240V 1Ø C= 120/208V 3Ø J= 120/240V 3Ø I = 277/480V 3Ø | Service Disconnect D=Provided | Branch Circuits Included |
|---------------|---|--------------------------------------|--|----------------------------------|-----------------------------|
| S | T | 100 | R | | 10, 12, 16 |
| S | R | 100, 200, 400 | R | D | |
| S | R | 100, 200, 400 | R, C, J, I | | |
| X | R, T | 100, 150, 200, 300, 400, 600, 800 | R, C, J, I | | |

"ST" Type Transfer Switches

Transfer Switches With Back Up Circuits

Siemens offers 3 models of automatic transfer switches with back up circuits. These panels provide transfer capability to a select number of critical circuits, as opposed to the entire house. For the chosen critical circuits, the conductors in the main house panel are removed from the breaker and connected with wire nuts to the pre-wired conductors on the transfer switch.

Features and Ratings

- UL 1008 Listed
- 100A
- 120/240, 1Ø
- Indoor NEMA Type 1
- Open Transition
- 10KAIC
- Express install kit included
- Dimensions (inches) 27 x 13 x 7
- Conduit length: 30 feet from ATS to junction box, 5 feet from junction box to generator, 2 feet from ATS to load center
- Suitable for use only on air cooled products (7-16 kW)



| Catalog Number | Breakers Provided | | | | | | Suggested Use |
|-------------------|-------------------|------|------|------|------|------|------------------|
| | Q250 | Q240 | Q230 | Q220 | Q120 | Q115 | |
| ST100R10 (10 ckt) | | | 1 | 1 | 3 | 3 | 10 kW Generators |
| ST100R12 (12 ckt) | | 1 | 1 | | 3 | 5 | 13 kW Generators |
| ST100R16 (16 ckt) | 1 | 1 | | 1 | 5 | 5 | 16 kW Generators |

Standby Power Systems

"SR" Type Transfer Switches

Features and Ratings

- UL 1008 Listed
- 100-400A
- Outdoor NEMA Type 3R
- 1-Phase and 3-Phase
- Open Transition
- Service entrance rated option
- Compatible with "R" type controllers found in 7-60 kW generators



| Catalog Number | Amp | Voltage | | | | NEMA | | | Service Disconnect Included |
|----------------|-----|------------|------------|------------|------------|------|----|----|-----------------------------|
| | | 120/240 1Ø | 120/208 3Ø | 120/240 3Ø | 277/480 3Ø | 1 | 3R | 12 | |
| SR100R | 100 | ● | | | | | ● | | |
| SR100RD | 100 | ● | | | | | ● | | ● |
| SR100C | 100 | | ● | | | | ● | | |
| SR100J | 100 | | | ● | | | ● | | |
| SR100I | 100 | | | | ● | | ● | | |
| SR200R | 200 | ● | | | | | ● | | |
| SR200RD | 200 | ● | | | | | ● | | ● |
| SR200C | 200 | | ● | | | | ● | | |
| SR200J | 200 | | | ● | | | ● | | |
| SR200I | 200 | | | | ● | | ● | | |
| SR400R | 400 | ● | | | | | ● | | |
| SR400RD | 400 | ● | | | | | ● | | ● |
| SR400C | 400 | | ● | | | | ● | | |
| SR400J | 400 | | | ● | | | ● | | |

| AMPS | 100 | 100 [Ⓢ] | 200 | 200 [Ⓢ] | 400 | 400 [Ⓢ] | 400 |
|---|--|------------------|--|------------------|--------------------|--------------------------|--------------|
| Voltage | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø | 120/240 1Ø | 120/240 1Ø 120/208 3Ø | 277/480 3Ø |
| Withstand Rating 1Ø 3Ø | 10 kAIC 14 kAIC | 10 kAIC | 10 kAIC 25 kAIC | 10 kAIC | 18 kAIC 18 kAIC | 18 kAIC | 35 kAIC |
| Dimensions 12/240 & 120/208 277/480 | 24 x 20 x 7 36 x 24 x 10 | 24 x 13 x 7 | 24 x 15 x 7 48 x 30 x 12 | 24 x 13 x 7 | 36 x 24 x 10 | 40 x 30 x 10 | 48 x 30 x 12 |
| Weight (lbs) 120/240 1Ø 120/208 3Ø 277/480 3Ø | 31 49 95 | 39 | 31 49 105 | 40 | 88 107 | 100 | 105 |

[Ⓢ] Service entrance rated, main disconnect provided (type QP for 100A, QN for 200A).

Standby Power Systems

"X" Type Transfer Switches

Features and Ratings

- UL 1008 Listed
- 100-800A
- Indoor NEMA Type 1 and 12
- Outdoor NEMA Type 3R
- 1-Phase and 3-Phase options
- Open Transition
- Compatible with "H" type controllers found in 70-150 kW generators
- 7 day programmable exerciser



| Catalog Number | Amp | Voltage | | | NEMA | | |
|----------------|-----|------------|------------|------------|------|----|----|
| | | 120/240 1Ø | 120/208 3Ø | 277/480 3Ø | 1 | 3R | 12 |
| XT100R | 100 | ● | | | ● | | |
| XT100C | 100 | | ● | | ● | | |
| XT100I | 100 | | | ● | ● | | |
| XR100R | 100 | ● | | | | ● | |
| XR100C | 100 | | ● | | | ● | |
| XR100I | 100 | | | ● | | ● | |
| XT150R | 150 | ● | | | ● | | |
| XT150C | 150 | | ● | | ● | | |
| XT150I | 150 | | | ● | ● | | |
| XR150R | 150 | ● | | | | ● | |
| XR150C | 150 | | ● | | | ● | |
| XR200I | 200 | | | ● | | ● | |
| XT200R | 200 | ● | | | ● | | |
| XT200C | 200 | | ● | | ● | | |
| XT200I | 200 | | | ● | ● | | |
| XR200R | 200 | ● | | | | ● | |
| XR200C | 200 | | ● | | | ● | |
| XR200I | 200 | | | ● | | ● | |
| XT300R | 300 | ● | | | ● | | |
| XT300C | 300 | | ● | | ● | | |
| XT300I | 300 | | | ● | ● | | |
| XR300R | 300 | ● | | | | ● | |
| XR300C | 300 | | ● | | | ● | |
| XR300I | 300 | | | ● | | ● | |
| XT400R | 400 | ● | | | ● | | |
| XT400C | 400 | | ● | | ● | | |
| XT400I | 400 | | | ● | ● | | |
| XR400R | 400 | ● | | | | ● | |
| XR400C | 400 | | ● | | | ● | |
| XR400I | 400 | | | ● | | ● | |
| XT600R | 600 | ● | | | | | ● |
| XT600C | 600 | | ● | | | | ● |
| XT600I | 600 | | | ● | | | ● |
| XR600R | 600 | ● | | | | ● | |
| XR600C | 600 | | ● | | | ● | |
| XR600I | 600 | | | ● | | ● | |
| XT800R | 800 | ● | | | | | ● |
| XT800C | 800 | | ● | | | | ● |
| XT800I | 800 | | | ● | | | ● |
| XR800R | 800 | ● | | | | ● | |
| XR800C | 800 | | ● | | | ● | |
| XR800I | 800 | | | ● | | ● | |

| AMPS | 100 | 150 | 200 | 300 | 400 | 600 | 800 |
|---|--|--|--|--|--|--|--|
| Voltage | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø | 120/240 1Ø 120/208 3Ø 277/480 3Ø |
| NEMA Rating | 1 / 3R | 1 / 3R | 1 / 3R | 1 / 3R | 1 / 3R | 12 / 3R | 12 / 3R |
| Withstand Rating 120/240 & 120/208 277/480 | 14 kAIC 14 kAIC | 10 kAIC 25 kAIC | 10 kAIC 25 kAIC | 18 kAIC 35 kAIC | 18 kAIC 35 kAIC | 42 kAIC 42 kAIC | 65 kAIC 65 kAIC |
| Dimensions 120/240 & 120/208 277/480 | 36 x 24 x 10 36 x 24 x 10 | 36 x 24 x 10 48 x 30 x 12 | 36 x 24 x 10 48 x 30 x 12 | 36 x 24 x 10 48 x 30 x 12 | 36 x 24 x 10 48 x 30 x 12 | 66 x 36 x 20 66 x 36 x 20 | 66 x 36 x 20 66 x 36 x 20 |
| Weight (lbs) 120/240 & 120/208 277/480 | 105 120 | 110 145 | 110 145 | 130 165 | 130 165 | 650 650 | 680 680 |

Standby Power Systems

Manual Transfer Interlock Kits

Manual Transfer Interlock Kits

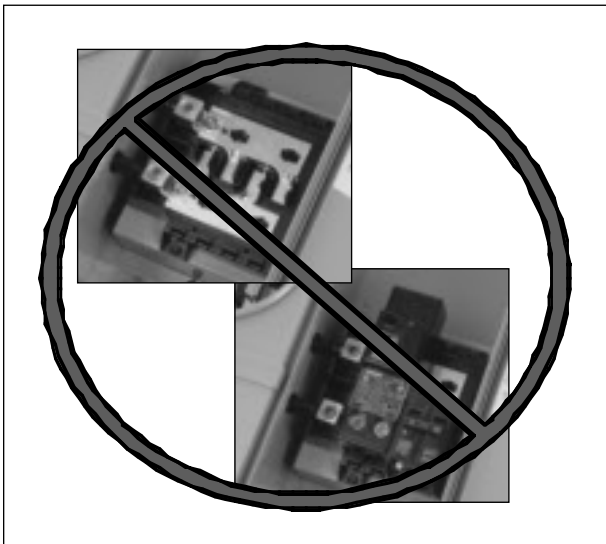
These interlock kits are used to interlock two main breakers in a load center or meter combination together so that both cannot be "ON" at the same time. This is required to prevent dangerous feedback between the two power systems. These kits work on most Siemens load centers and meter combinations.

Standard Features

- UL listed for use in most Siemens load centers and meter combinations
- Suitable for use with optional standby systems in accordance with article 702 of the National Electric Code®
- Corrosion resistant finish
- Easy assembly requiring no modifications to the load center or meter combination
- Remains attached to the main breakers when load center cover is removed

Misapplications

Follow all directions and precautions detailed in the instructions sheets. Do not use the interlock kits in such a manner that power is not prevented from being fed back to the utility lines when the utility main breaker is in the "OFF" position. Examples would be meter combinations in which the conductors from the meter land on lugs, as opposed to a main breaker (see below).



| Description | Catalog Number Breaker Types Utility / Standby | Image |
|---|--|-------|
| Attaches to two double pole circuit breakers across from one another as shown | ECSBPK01 QP / QP | |
| Attaches to two double pole circuit breakers side by side to one another as shown | ECSBPK02 QP / QP | |
| Used on Ultimate main breaker load centers 150-225A as shown | ECSBPK03 MBK / QP | |
| Used on Ultimate main breaker load centers 100-125A as shown | ECSBPK04 MBK / QP | |
| Attaches to type QN main breakers and double pole breakers as shown | ECSBPK05 QN / QP | |
| Attaches to type QNR main breakers and double pole breakers as shown | ECSBPK06 QNR / QP | |
| Attaches to two type QNR or QN main breakers as shown | ECSBPK07 QN(R) / QN(R) | |
| Attaches to two type QNR or QN main breakers as shown | ECSBPK08 QPP / QP | |

Standby Power Systems

Manual Transfer Interlock Kits

Acceptable Usage of Interlock Kits by Load Center/Meter Combination

| Murray Indoor Load Centers | |
|----------------------------|-------------|
| LC008D [Ⓞ] | 1 2 |
| LC024PFR | 1 2 5 6 7 |
| LC110DFCGP | 1 2 |
| LC1224B1100 | 4 |
| LC1224L1125 | 1 2 4 |
| LC1632B1150 | 3 |
| LC1632B1200 | 3 |
| LC1632L1125 | 1 2 4 |
| LC1632L1150 | 1 2 3 5 6 7 |
| LC2040B1100 [Ⓞ] | 4 |
| LC2040B1150 | 3 |
| LC2040B1200 [Ⓞ] | 3 |
| LC2040L1125 [Ⓞ] | 1 2 4 |
| LC2040L1200 [Ⓞ] | 1 2 3 5 6 7 |
| LC2440B1100 | 4 |
| LC2440B1150 | 3 |
| LC2440B1200 | 3 |
| LC2440L1150 | 1 2 3 5 6 7 |
| LC2440L1200 | 1 2 3 5 6 7 |
| LC3040B1100 | 4 |
| LC3040B1150 | 3 |
| LC3040B1200 [Ⓞ] | 3 |
| LC3040L1125 | 1 2 4 |
| LC3040L1200 [Ⓞ] | 1 2 3 5 6 7 |
| LC4040B1200 [Ⓞ] | 3 |
| LC4040L1200 [Ⓞ] | 1 2 3 5 6 7 |
| LC4242L1225CU | 1 2 3 |

[Ⓞ]Wild card used for one or more numbers and /or letters. ex: E0816ML1125 could be E0816ML1125FCU.

Notes

- Numbers 1 through 9 in these tables represent the interlock kit number. Example: 1 = ECSBPK01
- Standby power interlock kits are not intended for use with AFCI, GFCI, 3-pole, or ½" frame breakers
- Standby power interlock kits are not intended for use with 4 space, 125A load centers
- These kits are not intended for use in meter combination devices where the conductors coming from the meter compartment land on lugs in the load center side, as opposed to a main breaker. Examples would include devices that start with JC0406L, JC0606L, or JA1212L

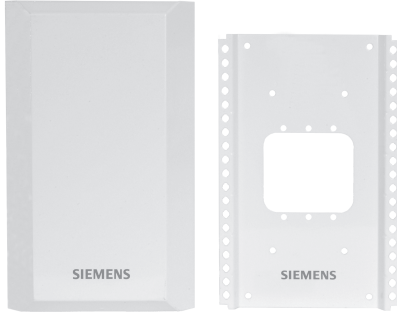
| Murray Outdoor Load Centers | |
|-----------------------------|-------------|
| LW008NR | 1 2 |
| LW0816L1200TR | 1 2 3 5 6 7 |
| LW1224B1100 | 4 |
| LW1224B1200 | 3 |
| LW1224L1125 | 1 2 4 |
| LW1224L1200 | 1 2 3 5 6 7 |
| LW1632B1100 | 4 |
| LW1632L1125 | 1 2 4 |
| LW2040B1150 | 3 |
| LW2040B1200 | 3 |
| LW2040L1125 | 1 2 4 |
| LW2040L1200 | 1 2 3 5 6 7 |
| LW3040B1200 | 3 |
| LW3040L1200 | 1 2 3 5 6 7 |
| LW4040B1200 | 3 |

| Murray Meter Combinations | |
|---------------------------|-----|
| JA0816B1150RTH | 5 7 |
| JA0816B1150TH | 5 7 |
| JA0816B1200RT | 5 7 |
| JA0816B1200RTH | 5 7 |
| JA0816B1200SCTM | 2 |
| JA0816B1200T | 5 7 |
| JA0816B1200TH | 5 7 |
| JA0816B1400RLTM | 5 7 |
| JA110A [Ⓞ] | 1 2 |
| JA1224B1100FEC | 2 |
| JA1224B1100SEC | 2 |
| JA1224B1125SEC | 2 |
| JA1632B1100SEC | 2 |
| JA2040B1150 | 5 7 |
| JA2040B1200 | 5 7 |
| JA2040B1200FED | 3 |
| JA2040B1200SED | 3 |
| JA2442B1200FEC | 2 |
| JA2442B1200SEC | 2 |
| JA3040B1200SECW | 5 7 |
| JA3042B1200FED | 3 |
| JA3042B1200SED | 3 |
| JA3042B1225FED | 3 |
| JA3042B1225SED | 3 |
| JA4040B1200SECW | 5 7 |
| JA0816B1200RCT | 8 |
| JA0816B1150RCT | 8 |
| JA0816B1200CT | 8 |
| JA0816B1150CT | 8 |

Structured Wiring

Network Enclosures

- Serves as the central hub for distribution and management of data signals
- Modules can be mounted on either side of the grid and upside down
- Modular design allows for expansion of telephone, fax, modem, cable TV, computer networking, audio distribution, high-speed Internet service and home control modules
- Painted white steel
- Side mounting tabs
- Receptacle knockout



NE10
10" enclosure plate with cover



NE18
18" enclosure with cover



NE36
36" enclosure

- 12 inches high
- 19 grid inches (2-9.5 inch columns)
- Fits between studs
- ABS construction
- Flexi-mount system (slots and tabs allow for surface or flush mount)
- Electrical J-box knockout on bottom
- Eight combination 1/2" or 2" knockouts including two located on the sides
- Paint shield included
- Snap-on vented cover included

- Secures and protects components inside the enclosure
- Adds depth to the cabinet allowing room for larger components
- Improved cooling
- Accepts the ALK2K lock kit for additional security



NE12
12" plastic enclosure with cover



NE12
12" plastic enclosure without cover



NE18HC
18" hinged door



NE36HC
36" hinged door

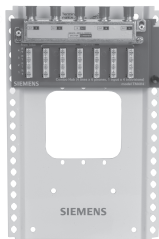
| Catalog Number | Description | Dimensions (in.) Enclosure | | | Dimensions (in.) Cover | | | Mounting |
|----------------|--------------------------|----------------------------|-------|------|------------------------|-------|------|---------------|
| | | H | W | D | H | W | D | |
| NE10 | 10" Enclosure with cover | 10.00 | 6.50 | 0.35 | 11.00 | 6.70 | 4.50 | Surface |
| NE12 | 12" Enclosure with cover | | | | | | | Flush/Surface |
| NE18 | 18" Enclosure with cover | 18.00 | 14.25 | 3.50 | 19.50 | 15.75 | — | Flush/Surface |
| NE18E | 18" Enclosure | 18.00 | 14.25 | 3.50 | | | | Flush/Surface |
| NE36 | 36" Enclosure | 36.00 | 14.25 | 3.50 | — | — | — | Flush/Surface |
| NE18C | 18" Enclosure cover | | | | 19.50 | 15.75 | — | |
| NE18HC | 18" Hinged cover | | | | | | | |
| NE36C | 36" Enclosure cover | — | — | — | 37.50 | 15.75 | — | — |
| NE36HC | 36" Hinged cover | | | | | | | |

Structured Wiring

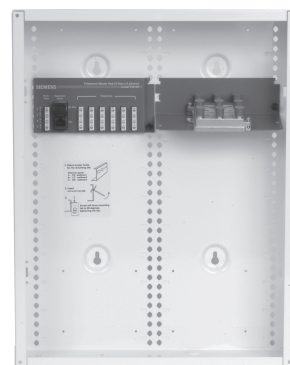
Network Centers & Hi-Fi Whole Home Audio

Network Centers

- Provides connection to services used today
- Allows for expansion and enhancement in the future
- Telecom modules distribute phone service to any outlet in the home, each with up to four phone lines
- Video modules distribute video service to any outlet in the home



NC106T4V
10" enclosure plate with 1x6 telephone and 1x4 video combination module



NC186T8V
18" enclosure with 1x6 telephone and 1x8 video distribution module

| Catalog Number | Description | Dimensions (in.) Enclosure | | | Dimensions (in.) Cover | | | Mounting |
|----------------|--|----------------------------|-------|------|------------------------|-------|------|---------------|
| | | H | W | D | H | W | D | |
| NC106T4V | 10" Enclosure w/cover & Combination Telcom/Video Module | 10.00 | 6.50 | 0.35 | 11.00 | 6.70 | 4.50 | Surface |
| NC186T8V | 18" Enclosure w/cover & 1x6 Telcom Module & 1x8 Video Module | 18.00 | 14.25 | 3.50 | 19.50 | 15.75 | — | Flush/Surface |

Hi-Fi Whole Home Audio



AM4X4HF



AM2X4HFEXP



AMVSC



AMRIM



AMZAC



AMPR



VMIREMIT



AMPS



AC48R



AC48

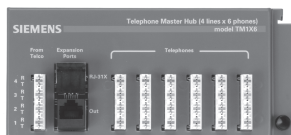
| Catalog Number | Description | Contents |
|----------------|---|--|
| AM4X4HF | 4 Zone, 4 Source Hi-Fi Audio System | Hi-Fi Main Board Assembly with 4 installed Zone Amplifier Cards on Universal Mounting Plate, 4 Remote Input Modules, 4 Volume-Source Controls, Power Supply, 1 Remote Control, cable for controllers, manuals. |
| AM2X4HFEXP | 4 Zone, 2 Source Hi-Fi Audio System Expansion | 4 Zone Amplifier Cards, 2 Remote Input Modules, 4 Volume-Source Controls, power supply, manuals. |
| AMVSC | Volume-Source Control, White | White rotary volume control with push source selection and IR receiver. Includes White Wallplate. |
| AMRIM | Remote Input Module, White | White Remote Audio Input/IR output module. Includes White Wallplate. |
| AMZAC | Zone Amplifier Card | Zone Amplifier Card for 1 stereo zone, instructions. |
| VMIREMIT | Infrared Emitter | Infrared Emitter to 3.5mm male, extends to 6 feet. |
| AMPR | Programmable Remote Control | Remote Control for volume and source selection with programmable source control functions. |
| AMPS | Power Supply | Universal power supply for Hi-Fi zones 1 to 4 or 5 to 8. |
| AC48R | Retractable Cable, 3.5mm to RCA | 3.5 mm male to 2 RCA male patch cable. Extends to 4 feet. Use to connect TVs, CD players, home theater and stereo components to Hi-Fi's RIM. |
| AC48 | Retractable Cable, 3.5mm to 3.5mm | 3.5 mm male to 3.5 mm male stereo patch cable. Extends to 4 feet. Use to connect MP3 players, iPods™, computers. |

Structured Wiring

Telephone & Data Modules

Telephone Modules

- Siemens telephone modules serve as the incoming telephone service connection point
- Supports four incoming telephone lines
- RJ-31X security system connection for seizure of line one
- High-quality cable termination on 110 punch-down blocks
- RJ-45 telephone distribution jacks provide flexibility
- Expansion modules allow you to add additional telephone outlets easily and economically



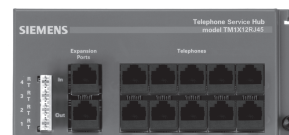
TM1X6
telephone interface hub

- Phone service for up to 4 lines
- Connects to 6 outlet wall plates
- RJ-31X jack for connection to security system
- 110 punch-down connectors
- RJ-45 jack for connection to TM8PEXP expansion hub



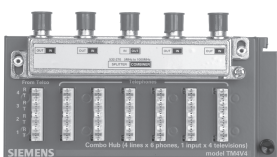
TM8PEXP
telephone expansion module

- Phone service for up to 4 lines
- Connects to 8 outlet wall plates
- RJ-45 jack for connection to additional TM8PEXP expansion hubs
- Includes Cat-5 patch cord for connection to telephone master hub



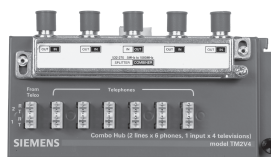
TM1X12RJ45
1 x 12 telecom module

- Phone service for up to 4 lines
- Connects to 12 outlet wall plates
- RJ-45 connectors
- RJ-45 jack for connection to additional TM1X12RJ45 interface modules



TM4V4
combination telephone and video module

- Phone service for up to 4 lines
- Connects to 6 outlet wall plates
- 110 punch-down connectors
- Distributes CATV or antenna signal to 4 televisions



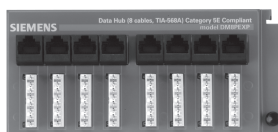
TM2V4
combination telephone and video module

- Phone service for up to 2 lines
- Connects to 6 outlet wall plates
- 110 punch-down connectors
- Distributes CATV or antenna signal to 4 televisions

| Catalog Number | Description | Connectors | Dimensions (in.) | | |
|----------------|--|----------------|------------------|------|------|
| | | | H | W | D |
| TM1X6 | Telephone Interface Hub | 110 punch-down | 2.75 | 6.25 | 1.00 |
| TM8PEXP | 1x8 Telecom Expansion Module | 110 punch-down | 2.75 | 6.25 | 1.00 |
| TM1X12RJ45 | 1x12 Telecom Module | RJ-45 | 2.75 | 6.25 | 1.00 |
| TM2V4 | Combination 2x6 Telephone and 1x4 Video Module | 110 punch-down | 2.75 | 6.25 | 1.00 |
| TM4V4 | Combination 4x6 Telephone and 1x4 Video Module | 110 punch-down | 2.75 | 6.25 | 1.00 |

Data Modules

- Siemens data modules support the creation of a high-speed, expandable home network
- Enables users to share files, printers, scanners and other peripheral devices
- High-speed Cat-5 termination point for cable, ISDN or DSL digital data services
- 100 Base-T performance
- Plug and play RJ-45 capability
- Expandable to add additional devices easily and economically



DM8PEXP
8-port network expansion module

- Terminates 8 Cat 5e cables connected to outlet wall plates
- Utilizes AJ12 or AJ24 patch cords to route services through RJ-45 connectors
- Facilitates "plug and play" installation
- Certified 100 Base-T performance
- 110 punch-down connectors



DM8PSWT
8-port network ethernet switch

- 8-port 10/100 Base-T switch creates a home network with 8 connections for computers and peripheral devices
- Cable/DSL modem compatible
- Activity LEDs for network status and diagnosis
- RJ-45 connections
- Expand your network with additional DM8PSWTs for more than 8 connections



DM4PRTR
4-port router/switch

- 4-port 10/100M switched hub creates a home network with four connections for computers and peripheral devices
- Cable/DSL modem compatible
- Firewall and virtual server
- Activity LEDs for network status and diagnosis
- RJ-45 connections

| Catalog Number | Description | Dimensions (in.) | | |
|----------------|---------------------------------|------------------|------|------|
| | | H | W | D |
| DM8PSWT | 8-Port Ethernet Switch | 3.75 | 6.25 | 1.25 |
| DM8PEXP | 8-Port Network Expansion Module | 3.75 | 6.25 | 1.00 |
| DM4PRTR | 4-Port Router/Switch | 3.75 | 6.25 | 1.25 |

Structured Wiring

Passive & Amplified Video Modules & Video Modulators

Passive Video Modules

- Siemens passive video modules serve as the incoming video service connection point
- Distributes a CATV or antenna signal to 3, 4, 6 or 8 television outlets
- Vertical cable access provides easy installation
- -130 dB RFI rejection
- Balanced splitter 5-1000 MHz



VM1X3
1 x 3 video module



VM1X4
1 x 4 video module



VM1X6
1 x 6 video module



VM1X8
1 x 8 video module

| Catalog Number | Description | Number of Outputs | Dimensions (in.) | | |
|----------------|------------------|-------------------|------------------|------|------|
| | | | H | W | D |
| VM1X3 | 1x3 Video Module | 3 | 2.75 | 6.25 | 1.00 |
| VM1X4 | 1x4 Video Module | 4 | 2.75 | 6.25 | 1.00 |
| VM1X6 | 1x6 Video Module | 6 | 2.25 | 6.25 | 2.25 |
| VM1X8 | 1x8 Video Module | 8 | 2.25 | 6.25 | 2.25 |

Amplified Video Modules

- Siemens amplified video modules serve as the incoming video service connection point
- Modulator inputs allow you to view locally generated channels from DVD, VCR, satellite receivers, cable boxes, CCTVs and more on any TV in the house
- 3x8 modules have built-in IR engines which allow infra-red remote control of video equipment
- Bi-directional modules are perfect for use with cable modems and pay-per-view boxes
- High-headroom modules handle signal differences between high-powered analog VHF and low-powered UHF stations



VM1X6A
1 x 6 bi-directional amplified video module

- CATV or antenna distribution to 6 outlet wall plates
- Four connections up to 75 feet in length
- Two connections up to 150 feet in length
- Bi-directional amplifier
- 5-42 MHz return path for cable modems, pay-per-view boxes and interactive applications



VM3X8AB
3 x 8 bi-directional amplified video module

- CATV video distribution to 8 outlet wall plates
- Two modular inputs to add locally generated channels (CCTV, DVD, VCR, etc.)
- Bi-directional amplifier
- 5-42 MHz return path for cable modems, pay-per-view boxes and interactive applications



VM3X8AH
3 x 8 high-headroom amplified video module

- Antenna video distribution to 8 outlet wall plates
- Two modular inputs to add locally generated channels (CCTV, DVD, VCR, etc.)
- High-headroom amplifier

| Catalog Number | Description | Bandwidth | Modulator Inputs | Number of Outputs | Dimensions (in.) | | |
|----------------|---|------------------|------------------|-------------------|------------------|------|------|
| | | | | | H | W | D |
| VM1X6A | 1x6 Bi-Directional Amplified Video Module | 40 MHz - 1 GHz | 0 | 6 | 2.75 | 6.25 | 1.25 |
| VM3X8AB | 3x8 Bi-Directional Amplified Video Module | 54 MHz - 860 MHz | 2 | 8 | 2.25 | 6.25 | 3.25 |
| VM3X8AH | 3x8 High-Headroom Amplified Video Module | 54 MHz - 860 MHz | 2 | 8 | 2.25 | 6.25 | 3.25 |

Video Modulators

- Create new channels for CCTV camera, DVD, VCR or other video devices
- Channel range: CATV 65 - 125 (excluding 95 - 99) and UHF 14 - 69
- Push button programming



VMMOD2
two channel video modulator

- Two channel modulator
- Designed for use with video sources such as VCR, DVD, etc.
- Works with 12V and 5V IR systems
- Push button channel programming



VMMOD4
four channel video modulator

- Four channel modulator
- Designed for use with video sources such as VCR, DVD, etc.
- Works with 12V and 5V IR systems
- Push button channel programming

| Catalog Number | Description | Dimensions (in.) | | |
|----------------|--------------------------------------|------------------|------|------|
| | | H | W | D |
| VMMOD2 | Two Channel Set Top Video Modulator | 1.50 | 7.90 | 5.50 |
| VMMOD4 | Four Channel Set Top Video Modulator | 1.50 | 7.90 | 5.50 |

Structured Wiring

Outlets & Accessories

Outlets

- Siemens outlets are designed for fast and simple connections
- Pre-configured outlets save time, and insure no missing pieces at installation
- Fit standard Decora® style face plates
- Available in almond, ivory or white
- Wide stable base makes for easy punch-down installation



O2DW
almond data
outlet



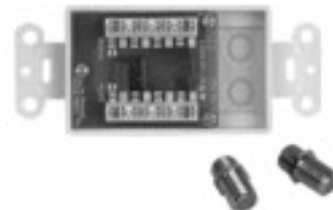
O1D4TW
white data/telecom
outlet



O1D2T2VW
almond data/telecom/video
outlet



O4T2VW
white telecom/video
outlet



Back of **O1D2T2VW**
white data/telecom/video
outlet

| Catalog Number | Description | Color | Number of Connections | | |
|----------------|---------------------------|-------|-----------------------|-------|------|
| | | | RJ-45 | RJ-45 | Coax |
| O2DW | Data Outlet | White | 2 | — | — |
| O1D4TW | Data/Telecom Outlet | White | 1 | 4 | — |
| O1D2T2VW | Data/Telecom/Video Outlet | White | 1 | 2 | 2 |
| O4T2VW | Telecom/Video Outlet | White | — | 4 | 2 |

Accessories



ACP4
ac power - 4 openings



ACP8
ac power - 8 openings
(outlets not included)



AJ12
1" patch cord



AMK12
module mounting kit



ASL10
replacement snap
locks



AGROM2
2" network enclosure
snap-in grommets



ACTUBE2
2" coupling tube for
network enclosures



ALK2K
lock kit



AJ24
2" patch cord

| Catalog Number | Description | Standard Package Qty. |
|----------------|---|-----------------------|
| ACP4 | AC Power - 4 openings | 1 |
| ACP8 | AC Power - 8 openings | 1 |
| AJ12 | 1" Patch Cord | 1 |
| AJ24 | 2" Patch Cord | 1 |
| ACTUBE2 | 2" Coupling Tube for Network Enclosures | 2 |
| AGROM2 | 2" Snap-In Grommet for Network Enclosures | 5 |
| ASC7CM | 7" Serial Cable for Home Control Module | 1 |
| ASC9T | 9" Serial Cable for Thermostats | 1 |
| AMBHD | Isolation Mounting Brackets (Heavy Duty) | 2 |
| AMBLD | Isolation Mounting Brackets (Light Duty) | 2 |
| ALK2K | Lock Kit | 1 |
| AMK12 | Module Mounting Kit | 12 |
| ASL10 | Replacement Snap Locks | 10 |
| AP8RJ6F | RJ-45 or F-Connector Adapter Plate | 1 |
| AWS18 | Wire Spacer | 1 |

Technical

Reference Guide

General

In the application of fusible switches and circuit breakers, consideration should be given to the following factors:

1. Voltage of circuit.
2. Ampacity of circuit.
3. Frequency of power source.
4. Operating conditions.
5. Fault current available.

Voltage of Circuit — The system voltage should not exceed the listed voltage rating of the circuit breaker, fuse or switch.

Ampacity of Circuit — The listed continuous current rating of the fuse or circuit breaker should not exceed the allowable ampacity of the conductors. Where the allowable ampacity of the conductor does not correspond to listed current ratings for fuses or circuit breakers, the next larger rating of fuse or circuit breaker is permitted providing it does not exceed the conductor ampacity by more than 25%. An exception to this rule is permitted for motor circuits or other circuits where high inrush currents may persist for an appreciable time.

Frequency of Power Source — Circuit breakers and fusible switches are calibrated for use on direct current or 48–68-Hertz alternating current. For frequencies above 62-Hertz, some fuses, switches and circuit breakers must be derated. The derating varies with each type and size of protective device. Consult your local representative for specific information.

Operating Conditions — Molded case circuit breakers and fuses are calibrated without any enclosure as specified by the Underwriters' Laboratories, Inc. Sound engineering practice dictates that continuous loads should not exceed 80% of the breaker or fuse current rating for most types of enclosures.

Electrical Connections — Molded Case Circuit Breakers are to be connected with 60 or 75°C wire for breakers having a rated ampacity of 125 amperes or less. For circuit breakers having a rated ampacity greater 125 amperes, only 75°C cable shall be used unless otherwise indicated on the circuit breaker label.

Note: Exceptions to this rule are outlined in Article 110-14-C(1) and C(2) of the 2002 National Electric Code.

Conductors should be derated in accordance with the National Electrical Code for both ambient temperature and continuous loading. Table 2 on page 8-3 lists the correction factors to be applied to the allowable current-carrying capacities of conductors for application in temperatures above 30°C. Conductors which are loaded continuously should be derated to 80% of their allowable current-carrying capacity except when supplied by an assembly including its overcurrent device that is listed for continuous operation at 100% of its rating.

When the type of load is unusual, intermittent, or one which involves momentary peak currents such as motor

loads, consideration should be given to the heating effect on the protective device over a period of time. The duty cycle of a motor which is started and stopped frequently may require a circuit breaker or fuses with a higher rating than an infrequently started motor.

The presence of excessive dust, moisture, corrosive fumes, or explosive atmosphere requires the use of enclosures suitable for such atmospheres. For applications in regions where fungus growth may occur, some circuit breakers should be treated with a fungus and moisture resistant material.

Fault Current Available — The interrupting rating of the circuit breaker or fused switch should be greater than the available short circuit current at the point of application. The short circuit current from some power sources, such as engine driven generators, is limited, and the protective device characteristics should be selected to clear such faults without delay.

Some systems require a study of protective device characteristics to assure proper protection and coordination for any possible value of fault current. Your representative is available to assist in making coordination studies.

Table 1

**Ampacities of Insulated Conductors (From NEC Table 310-16)
Not More Than Three Conductors in Raceway or Cable or Earth (Directly Buried).
(Based on Ambient Temperature of 30°C, 86°F)**

| Size | Copper Conductors | | | Aluminum Conductors Copper-Clad Aluminum Conductors | | | Size |
|----------------------|-------------------|-----------------|--|--|---|--|----------------------|
| | 60°C (140°F) | 75°C (167°F) | 90°C (194°F) | 60°C (140°F) | 75°C (167°F) | 90°C (194°F) | |
| AWG Kcmil | Types | Types | Types TBS SA SIS FEP FEPB RHH THHN THHW XHHW | Types | Types RHW THHW THW THWN XHHW USE | Types TBS, SA, SIS, THHN THHW THW-2, THWN-2, RHH, RHW-2 USE-2 XHH, XHHW XHHW-2, ZW-2 | AWG Kcmil |
| 18 | — | — | 14 | — | — | — | — |
| 16 | — | — | 18 | — | — | — | — |
| 14 [Ⓣ] | 20 | 20 | 25 | — | — | — | — |
| 12 [Ⓣ] | 25 | 25 | 30 | 20 [Ⓣ] | 20 [Ⓣ] | 25 [Ⓣ] | 12 |
| 10 [Ⓣ] | 30 | 35 | 40 | 25 | 30 [Ⓣ] | 35 [Ⓣ] | 10 |
| 8 | 40 | 50 | 55 | 30 | 40 | 45 | 8 |
| 6 | 55 | 65 | 75 | 40 | 50 | 60 | 6 |
| 4 | 70 | 85 | 95 | 55 | 65 | 75 | 4 |
| 3 | 85 | 100 | 110 | 65 | 75 | 85 | 3 |
| 2 | 95 | 115 | 130 | 75 | 90 | 100 | 2 |
| 1 | 110 | 130 | 150 | 85 | 100 | 115 | 1 |
| ¾ | 125 | 150 | 170 | 100 | 120 | 135 | ¾ |
| ½ | 145 | 175 | 195 | 115 | 135 | 150 | ½ |
| ¼ | 165 | 200 | 225 | 130 | 155 | 175 | ¼ |
| ⅛ | 195 | 230 | 260 | 150 | 180 | 205 | ⅛ |
| 250 | 215 | 255 | 290 | 170 | 205 | 230 | 250 |
| 300 | 240 | 285 | 320 | 190 | 230 | 255 | 300 |
| 350 | 260 | 310 | 350 | 210 | 250 | 280 | 350 |
| 400 | 280 | 335 | 380 | 225 | 270 | 305 | 400 |
| 500 | 320 | 380 | 430 | 260 | 310 | 350 | 500 |
| 600 | 355 | 420 | 475 | 285 | 340 | 385 | 600 |
| 700 | 385 | 460 | 520 | 310 | 375 | 420 | 700 |
| 750 | 400 | 475 | 535 | 320 | 385 | 435 | 750 |
| 800 | 410 | 490 | 555 | 330 | 395 | 450 | 800 |
| 900 | 435 | 520 | 585 | 355 | 425 | 480 | 900 |
| 1000 | 455 | 545 | 615 | 375 | 445 | 500 | 1000 |
| 1250 | 495 | 590 | 665 | 405 | 485 | 545 | 1250 |
| 1500 | 520 | 625 | 705 | 435 | 520 | 585 | 1500 |
| 1750 | 545 | 650 | 735 | 455 | 545 | 615 | 1750 |
| 2000 | 560 | 665 | 750 | 470 | 560 | 630 | 2000 |

Table 2

Correction Factors for Ambient Temperature Over 30°C, 86°F

| Ambient Temperature°C | For ambient temperature over 30°C, (86°F) multiply the ampacities shown above by the appropriate factor shown below. | | | | | | Ambient Temperature°F |
|-----------------------|--|------|------|------|------|------|-----------------------|
| 21-25 | 1.08 | 1.05 | 1.04 | 1.08 | 1.05 | 1.04 | 70-77 |
| 26-30 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 78-86 |
| 31-35 | .91 | .94 | .96 | .91 | .94 | .96 | 87-95 |
| 36-40 | .82 | .88 | .91 | .82 | .88 | .91 | 96-104 |
| 41-45 | .71 | .82 | .87 | .71 | .82 | .87 | 105-113 |
| 46-50 | .58 | .75 | .82 | .58 | .75 | .82 | 114-122 |
| 51-55 | .41 | .67 | .76 | .41 | .67 | .76 | 123-131 |
| 56-60 | — | .58 | .71 | — | .58 | .71 | 132-140 |
| 61-70 | — | .33 | .58 | — | .33 | .58 | 141-158 |
| 71-80 | — | — | .41 | — | — | .41 | 159-176 |

ⓉThe load current rating and the overcurrent protection for conductor types shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG, and 30 amperes for 10 AWG copper; or 15 amperes for 12 AWG and 25 amperes for 10 AWG aluminum and copper-clad aluminum after any correction factors for ambient temperature and number of conductors have been applied.

Table 4A

Motor Full-Load Currents of Three Phase AC Induction Type Motors^①

| Motor Rating Horsepower | Current in Amperes | | | |
|----------------------------|--------------------|------|------|------|
| | 208V | 230V | 460V | 575V |
| 1/8 | 1.11 | .96 | .48 | .38 |
| 1/4 | 1.34 | 1.18 | .59 | .47 |
| 1/2 | 2.4 | 2.2 | 1.1 | .9 |
| 3/4 | 3.5 | 3.2 | 1.6 | 1.3 |
| 1 | 4.6 | 4.2 | 2.1 | 1.7 |
| 1 1/2 | 6.6 | 6 | 3 | 2.4 |
| 2 | 7.5 | 6.8 | 3.4 | 2.7 |
| 3 | 10.6 | 9.6 | 4.8 | 3.9 |
| 5 | 16.7 | 15.2 | 7.6 | 6.1 |
| 7 1/2 | 24.2 | 22.0 | 11.0 | 9.0 |
| 10 | 30.8 | 28.0 | 14.0 | 11.0 |
| 15 | 46.2 | 42.0 | 21.0 | 17.0 |
| 20 | 59.4 | 54 | 27 | 22 |
| 25 | 74.8 | 68 | 34 | 27 |
| 30 | 88 | 80 | 40 | 32 |
| 40 | 114 | 104 | 52 | 41 |
| 50 | 143 | 130 | 65 | 52 |
| 60 | 169 | 154 | 77 | 62 |
| 75 | 211 | 192 | 96 | 77 |
| 100 | 273 | 248 | 124 | 99 |
| 125 | 343 | 312 | 156 | 125 |
| 150 | 396 | 360 | 180 | 144 |
| 200 | 528 | 480 | 240 | 192 |
| 250 | — | — | 302 | 242 |
| 300 | — | — | 361 | 289 |
| 350 | — | — | 414 | 336 |
| 400 | — | — | 477 | 382 |
| 450 | — | — | 515 | 412 |
| 500 | — | — | 590 | 472 |

Table 4B

Motor Full-Load Currents In Amperes, Single Phase, AC

| Horsepower | 115V | 230V |
|------------|------|------|
| 1/8 | 4.4 | 2.2 |
| 1/4 | 5.8 | 2.9 |
| 1/2 | 7.2 | 3.6 |
| 3/4 | 9.8 | 4.9 |
| 1 | 13.8 | 6.9 |
| 1 | 16 | 8 |
| 1 1/2 | 20 | 10 |
| 2 | 24 | 12 |
| 3 | 34 | 17 |
| 5 | 56 | 28 |
| 7 1/2 | 80 | 40 |
| 10 | 100 | 50 |

Table 4C

Motor Full-Load Currents In Amperes, DC

| Horsepower | 120V | 240V |
|------------|------|------|
| 1/8 | 3.1 | 1.6 |
| 1/4 | 4.1 | 2.0 |
| 1/2 | 5.4 | 2.7 |
| 3/4 | 7.6 | 3.8 |
| 1 | 9.5 | 4.7 |
| 1 1/2 | 13.2 | 6.6 |
| 2 | 17 | 8.5 |
| 3 | 25 | 12.2 |
| 5 | 40 | 20 |
| 7 1/2 | 58 | 29 |
| 10 | 76 | 38 |

Table 4D

Conversion Table of Polyphase Design B, C, D, and E Maximum Locked-Rotor Currents for Selection of Disconnecting Means and Controllers as Determined from Horsepower and Voltage Rating and Design Letter For use only with Sections 430-110, 440-12, 440-41, and 455-8(c) of the National Electric Code.

| Rated HP | Maximum Motor Locked-Rotor Current Amperes Two and Three Phase Design B, C, D, and E | | | | | | | | | | | |
|----------|--|-----|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
| | 115 Volts B, C, D E | | 200 Volts B, C, D E | | 208 Volts B, C, D E | | 230 Volts B, C, D E | | 460 Volts B, C, D E | | 575 Volts B, C, D E | |
| | 1/8 | 40 | 40 | 23 | 23 | 22.1 | 22.1 | 20 | 20 | 10 | 10 | 8 |
| 1/4 | 50 | 50 | 28.8 | 28.8 | 27.6 | 27.6 | 25 | 25 | 12.5 | 12.5 | 10 | 10 |
| 1 | 60 | 60 | 34.5 | 34.5 | 33 | 33 | 30 | 30 | 15 | 15 | 12 | 12 |
| 1 1/2 | 80 | 80 | 46 | 46 | 44 | 44 | 40 | 40 | 20 | 20 | 16 | 16 |
| 2 | 100 | 100 | 57.5 | 57.5 | 55 | 55 | 50 | 50 | 25 | 25 | 20 | 20 |
| 3 | — | — | 73.6 | 84 | 71 | 81 | 64 | 73 | 32 | 36.5 | 25.6 | 29.2 |
| 5 | — | — | 105.8 | 140 | 102 | 135 | 92 | 122 | 46 | 61 | 36.8 | 48.8 |
| 7 1/2 | — | — | 146 | 210 | 140 | 202 | 127 | 183 | 63.5 | 91.5 | 50.8 | 73.2 |
| 10 | — | — | 186.3 | 259 | 179 | 249 | 162 | 225 | 81 | 113 | 64.8 | 90 |
| 15 | — | — | 267 | 388 | 257 | 373 | 232 | 337 | 116 | 169 | 93 | 135 |
| 20 | — | — | 334 | 516 | 321 | 497 | 290 | 449 | 145 | 225 | 116 | 180 |
| 25 | — | — | 420 | 646 | 404 | 621 | 365 | 562 | 183 | 281 | 146 | 225 |
| 30 | — | — | 500 | 775 | 481 | 745 | 435 | 674 | 218 | 337 | 174 | 270 |
| 40 | — | — | 667 | 948 | 641 | 911 | 580 | 824 | 290 | 412 | 232 | 330 |
| 50 | — | — | 834 | 1185 | 802 | 1139 | 725 | 1030 | 363 | 515 | 290 | 412 |
| 60 | — | — | 1001 | 1421 | 962 | 1367 | 870 | 1236 | 435 | 618 | 348 | 494 |
| 75 | — | — | 1248 | 1777 | 1200 | 1708 | 1085 | 1545 | 543 | 773 | 434 | 618 |
| 100 | — | — | 1668 | 2154 | 1603 | 2071 | 1450 | 1873 | 725 | 937 | 580 | 749 |
| 125 | — | — | 2087 | 2692 | 2007 | 2589 | 1815 | 2341 | 908 | 1171 | 726 | 936 |
| 150 | — | — | 2496 | 3230 | 2400 | 3106 | 2170 | 2809 | 1085 | 1405 | 868 | 1124 |
| 200 | — | — | 3335 | 4307 | 3207 | 4141 | 2900 | 3745 | 1450 | 1873 | 1160 | 1498 |
| 250 | — | — | — | — | — | — | — | — | 1825 | 2344 | 1460 | 1875 |
| 300 | — | — | — | — | — | — | — | — | 2200 | 2809 | 1760 | 2247 |
| 350 | — | — | — | — | — | — | — | — | 2550 | 3277 | 2040 | 2622 |
| 400 | — | — | — | — | — | — | — | — | 2900 | 3745 | 2320 | 2996 |
| 450 | — | — | — | — | — | — | — | — | 3250 | 4214 | 2600 | 3371 |
| 500 | — | — | — | — | — | — | — | — | 3625 | 4682 | 2900 | 3746 |

Table 5

Normal-Load and Fault Currents of Three Phase Transformers

| Transformer Characteristics 3-Phase | | AC Voltage 3-Phase | | | | | |
|-------------------------------------|-------------|--------------------------------|-----------------------|--------------------------------|-----------------------|--------------------------------|-----------------------|
| | | 280V | | 240V | | 480V | |
| kVA Rating | % Impedance | Normal Load Continuous Amperes | Short Circuit Current | Normal Load Continuous Amperes | Short Circuit Current | Normal Load Continuous Amperes | Short Circuit Current |
| 112.5 | 2.25 | 312 | 14,491 | 271 | 13,128 | 135 | 6,540 |
| 150 | 3.00 | 416 | 14,699 | 361 | 13,477 | 180 | 6,720 |
| 225 | 4.50 | 625 | 15,139 | 541 | 14,186 | 271 | 7,106 |
| 300 | 5.00 | 834 | 18,326 | 722 | 17,328 | 361 | 8,664 |
| 500 | 5.00 | 1388 | 30,536 | 1203 | 28,872 | 601 | 14,424 |
| 750 | 5.75 | 2080 | 40,373 | 1804 | 38,590 | 902 | 19,295 |
| 1000 | 5.75 | 2780 | 53,830 | 2406 | 51,467 | 1203 | 25,734 |
| 1500 | 5.75 | 4162 | 80,745 | 3610 | 77,201 | 1805 | 38,590 |
| 2000 | 5.75 | — | — | 4812 | 102,914 | 2406 | 51,467 |
| 2500 | 5.75 | — | — | 6010 | 128,647 | 3008 | 64,324 |
| 1000 | 8.00 | — | — | — | — | 1203 | 19,850 |
| 1500 | 8.00 | — | — | — | — | 1805 | 29,766 |

① Values may vary depending on manufacturer, type of motor and NEMA design. For full load currents of 200 volt motors, increase the corresponding 230 volt motor full-load current by 15 percent.

Table 5 Notes:

- Primary source available is assumed as 500 MVA at the primary of the transformer with a source circuit X/R ratio of 12.
- Motor contribution is included in the table at twice the full-load current for 208 volt transformers and at 4 times the full-load current for 240 volt and 480 volt transformers. These values are derived from the assumption that 208 volt systems are 50% motor load and 240 and 480 volt systems are 100% motor load.
- All short circuit current values are in symmetrical RMS amperes.

Table 6

Electrical Formulas for Finding Amperes, Horsepower, Kilowatts and kVA

| To Find | Single Phase | Alternating Current Two Phase [Ⓢ] , Four Wire | Three Phase | Direct Current |
|----------------------------------|---|--|---|---|
| Kilowatts | $\frac{I \times E \times pf}{1000}$ | $\frac{I \times E \times 2 \times pf}{1000}$ | $\frac{I \times E \times 1.73 \times pf}{1000}$ | $\frac{I \times E}{1000}$ |
| kVA | $\frac{I \times E}{1000}$ | $\frac{I \times E \times 2}{1000}$ | $\frac{I \times E \times 1.73}{1000}$ | — |
| Horsepower (Output) | $\frac{I \times E \times \% \text{ EFF} \times pf}{746}$ | $\frac{I \times E \times 2 \times \% \text{ EFF} \times pf}{746}$ | $\frac{I \times E \times 1.73 \times \% \text{ EFF} \times pf}{746}$ | $\frac{I \times E \times \% \text{ EFF}}{746}$ |
| Amperes when Horsepower is Known | $\frac{HP \times 746}{E \times \% \text{ EFF} \times pf}$ | $\frac{HP \times 746}{2 \times E \times \% \text{ EFF} \times pf}$ | $\frac{HP \times 746}{1.73 \times E \times \% \text{ EFF} \times pf}$ | $\frac{HP \times 746}{E \times \% \text{ EFF}}$ |
| Amperes when Kilowatts is Known | $\frac{KW \times 1000}{E \times pf}$ | $\frac{KW \times 1000}{2 \times E \times pf}$ | $\frac{KW \times 1000}{1.73 \times E \times pf}$ | $\frac{KW \times 1000}{E}$ |
| Amperes when kVA is Known | $\frac{kVA \times 1000}{E}$ | $\frac{kVA \times 1000}{2 \times E}$ | $\frac{kVA \times 1000}{1.73 \times E}$ | — |

Average Efficiency and Power Factor Values of Motors

When the actual efficiencies and power factors of the motors to be controlled are not known, the following approximations may be used.

Efficiencies:

- DC motors, 35 horsepower and less 80% to 85%
- DC motors, above 35 horsepower 85% to 90%
- Synchronous motors (at 100% power factor) 92% to 95%
- “Apparent” Efficiencies (= Efficiency x Power Factor);
- Three phase induction motors, 25 horsepower and less 70%
- Three phase induction motors above 25 horsepower 80%
- These figures may be decreased slightly for single phase and two phase induction motors.

Fault-Current Calculation on Low-Voltage AC Systems

In order to determine the maximum interrupting rate of the circuit breakers in a distribution system it is necessary to calculate the current which could flow under a three phase bolted short circuit condition. For a three phase system the maximum available fault current at the secondary side of the transformer can be obtained by use of the formula:

$$I_{sc} = \frac{kVA \times 100}{KV \times \sqrt{3} \times \% Z}$$

where:

- I_{sc} = Symmetrical RMS amperes of fault current.
- kVA = Kilovolt-ampere rating of transformers.
- KV = Secondary voltage in kilovolts.
- % Z = Percent impedance of primary line and transformer.

Table 5 on page 8-4 has been prepared to list the symmetrical RMS fault current which is available at the secondary terminals of the transformer.

Table 8[Ⓢ]

Minimum Size Grounding Conductors for Grounding Raceways and Equipment (From NEC Table 250-122)

| Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit etc., Not Exceeding (Amperes) | Size | |
|--|--------------------|--|
| | Copper Wire Number | Aluminum or Copper Clad Aluminum Wire Number |
| 15 | 14 | 12 |
| 20 | 12 | 10 |
| 30 | 10 | 8 |
| 40 | 10 | 8 |
| 60 | 10 | 8 |
| 100 | 8 | 6 |
| 200 | 6 | 4 |
| 300 | 4 | 2 |
| 400 | 3 | 1 |
| 500 | 2 | 1/0 |
| 600 | 1 | 2/0 |
| 800 | 1/0 | 3/0 |
| 1000 | 2/0 | 4/0 |
| 1200 | 3/0 | 250 kcmil |
| 1600 | 4/0 | 350 kcmil |
| 2000 | 250 kcmil | 400 kcmil |
| 2500 | 350 kcmil | 600 kcmil |
| 3000 | 400 kcmil | 600 kcmil |
| 4000 | 500 kcmil | 800 kcmil |
| 5000 | 700 kcmil | 1200 kcmil |
| 6000 | 800 kcmil | 1200 kcmil |

Note: Where necessary to comply with 250.4(A)(5) or (B)(4), the equipment grounding conductor shall be sized larger than given in this table.

Table 7[Ⓢ]

Grounding Electrode Conductor for AC Systems (From NEC Table 250-66)

| Size of Largest Service Entrance Conductor or Equivalent Area for Parallel Conductors | Size of Grounding Electrode Conductor | | |
|---|---------------------------------------|--------|----------------------------------|
| | Aluminum or Copper Clad Aluminum | Copper | Aluminum or Copper Clad Aluminum |
| Copper | | | |
| 2 or smaller | 1/0 or smaller | 8 | 6 |
| 1 or 1/0 | 2/0 or 3/0 | 6 | 4 |
| 2/0 or 3/0 | 4/0 or 250 kcmil | 4 | 2 |
| Over 3/0 to 350 kcmil | Over 250 kcmil to 500 kcmil | 2 | 1/0 |
| Over 350 kcmil to 600 kcmil | Over 500 kcmil to 900 kcmil | 1/0 | 3/0 |
| Over 600 kcmil to 1100 kcmil | Over 900 kcmil to 1750 kcmil | 2/0 | 4/0 |
| Over 1100 kcmil | Over 1750 kcmil | 3/0 | 250 kcmil |

[Ⓢ]In three wire, two phase circuits the current in the common conductor is 1.41 times that in either other conductor.

[Ⓢ]Additional information and exceptions are stated in Article 250 — Grounding, National Electric Code.

E = Volts I = Amperes
% EFF = Per Cent Efficiency pf = Power Factor

Technical

Fraction, Decimal, and Millimeter Equivalents - Conversion Tables

Fractions to Decimals to Millimeters

| Fractions | Decimals | Millimeters |
|-----------|----------|-------------|
| 1/64 | 0.015625 | 0.397 |
| 1/32 | 0.03125 | 0.794 |
| 3/64 | 0.046875 | 1.191 |
| 1/16 | 0.0625 | 1.588 |
| 5/64 | 0.078125 | 1.984 |
| 3/32 | 0.09375 | 2.381 |
| 7/64 | 0.109375 | 2.778 |
| 1/8 | 0.1250 | 3.175 |
| 9/64 | 0.140625 | 3.572 |
| 5/32 | 0.15625 | 3.969 |
| 11/64 | 0.171875 | 4.366 |
| 3/16 | 0.1875 | 4.763 |
| 13/64 | 0.203125 | 5.159 |
| 7/32 | 0.21875 | 5.556 |
| 15/64 | 0.234375 | 5.953 |
| 1/4 | 0.2500 | 6.350 |
| 17/64 | 0.265625 | 6.747 |
| 9/32 | 0.28125 | 7.144 |
| 19/64 | 0.296875 | 7.541 |
| 5/16 | 0.3125 | 7.938 |
| 21/64 | 0.328125 | 8.334 |
| 11/32 | 0.34375 | 8.731 |
| 23/64 | 0.359375 | 9.128 |
| 3/8 | 0.3750 | 9.525 |
| 25/64 | 0.390625 | 9.922 |
| 13/32 | 0.40625 | 10.319 |
| 27/64 | 0.421875 | 10.716 |
| 7/16 | 0.4375 | 11.113 |
| 29/64 | 0.453125 | 11.509 |
| 15/32 | 0.46875 | 11.906 |
| 31/64 | 0.484375 | 12.303 |
| 1/2 | 0.500 | 12.700 |
| 33/64 | 0.515625 | 13.097 |
| 17/32 | 0.53125 | 13.494 |
| 35/64 | 0.546875 | 13.891 |
| 9/16 | 0.5625 | 14.288 |
| 37/64 | 0.578125 | 14.684 |
| 19/32 | 0.59375 | 15.081 |
| 39/64 | 0.609375 | 15.478 |
| 5/8 | 0.6250 | 15.875 |
| 41/64 | 0.640625 | 16.272 |
| 21/32 | 0.65625 | 16.669 |
| 43/64 | 0.671875 | 17.066 |
| 11/16 | 0.6875 | 17.463 |
| 45/64 | 0.703125 | 17.859 |
| 23/32 | 0.71875 | 18.256 |
| 47/64 | 0.734375 | 18.653 |
| 3/4 | 0.7500 | 19.050 |
| 49/64 | 0.765625 | 19.447 |
| 25/32 | 0.78125 | 19.844 |
| 51/64 | 0.796875 | 20.241 |
| 13/16 | 0.8125 | 20.638 |
| 53/64 | 0.828125 | 21.034 |
| 27/32 | 0.84375 | 21.431 |
| 55/64 | 0.859375 | 21.828 |
| 7/8 | 0.8750 | 22.225 |
| 57/64 | 0.890625 | 22.622 |
| 29/32 | 0.90625 | 23.019 |
| 59/64 | 0.921875 | 23.416 |
| 15/16 | 0.9375 | 23.813 |
| 61/64 | 0.953125 | 24.209 |
| 31/32 | 0.96875 | 24.606 |
| 63/64 | 0.984375 | 25.003 |
| 1 | 1.000 | 25.400 |

Millimeters to Inches^①

| Millimeters | Inches | Millimeters | Inches |
|-------------|--------|-------------|--------|
| 0.1 | 0.0039 | 46 | 1.8110 |
| 0.2 | 0.0079 | 47 | 1.8504 |
| 0.3 | 0.0118 | 48 | 1.8898 |
| 0.4 | 0.0157 | 49 | 1.9291 |
| 0.5 | 0.0197 | 50 | 1.9685 |
| 0.6 | 0.0236 | 51 | 2.0079 |
| 0.7 | 0.0276 | 52 | 2.0472 |
| 0.8 | 0.0315 | 53 | 2.0866 |
| 0.9 | 0.0354 | 54 | 2.1260 |
| | | 55 | 2.1654 |
| 1 | 0.0394 | 56 | 2.2047 |
| 2 | 0.0787 | 57 | 2.2441 |
| 3 | 0.1181 | 58 | 2.2835 |
| 4 | 0.1575 | 59 | 2.3228 |
| 5 | 0.1969 | 60 | 2.3622 |
| 6 | 0.2362 | 61 | 2.4016 |
| 7 | 0.2756 | 62 | 2.4409 |
| 8 | 0.3150 | 63 | 2.4803 |
| 9 | 0.3543 | 64 | 2.5197 |
| 10 | 0.3937 | 65 | 2.5591 |
| 11 | 0.4331 | 66 | 2.5984 |
| 12 | 0.4724 | 67 | 2.6378 |
| 13 | 0.5118 | 68 | 2.6772 |
| 14 | 0.5512 | 69 | 2.7165 |
| 15 | 0.5906 | 70 | 2.7559 |
| 16 | 0.6299 | 71 | 2.7953 |
| 17 | 0.6693 | 72 | 2.8346 |
| 18 | 0.7087 | 73 | 2.8740 |
| 19 | 0.7480 | 74 | 2.9134 |
| 20 | 0.7874 | 75 | 2.9528 |
| 21 | 0.8268 | 76 | 2.9921 |
| 22 | 0.8661 | 77 | 3.0315 |
| 23 | 0.9055 | 78 | 3.0709 |
| 24 | 0.9449 | 79 | 3.1102 |
| 25 | 0.9843 | 80 | 3.1496 |
| 26 | 1.0236 | 81 | 3.1890 |
| 27 | 1.0630 | 82 | 3.2283 |
| 28 | 1.1024 | 83 | 3.2677 |
| 29 | 1.1417 | 84 | 3.3071 |
| 30 | 1.1811 | 85 | 3.3465 |
| 31 | 1.2205 | 86 | 3.3858 |
| 32 | 1.2598 | 87 | 3.4252 |
| 33 | 1.2992 | 88 | 3.4646 |
| 34 | 1.3386 | 89 | 3.5039 |
| 35 | 1.3780 | 90 | 3.5433 |
| 36 | 1.4173 | 91 | 3.5827 |
| 37 | 1.4567 | 92 | 3.6220 |
| 38 | 1.4961 | 93 | 3.6614 |
| 39 | 1.5354 | 94 | 3.7008 |
| 40 | 1.5748 | 95 | 3.7402 |
| 41 | 1.6142 | 96 | 3.7795 |
| 42 | 1.6535 | 97 | 3.8189 |
| 43 | 1.6929 | 98 | 3.8583 |
| 44 | 1.7323 | 99 | 3.8976 |
| 45 | 1.7717 | 100 | 3.9370 |

① 0.001" = 0.0254 mm
1 mm = 0.03937"

Product Index

Pricing effective November 12, 2007

| Catalog Number | Product Category | List Price | Unit of Measure | 2008-2009 Murray Pg. No. | Item Class (MG3) | UPC Code |
|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| HDHN323AW | HDSM | 4606.00 | PC | 5-9 | N2P | 40892012590 |
| HDHN324 | HDSM | 5996.00 | PC | 5-9 | N2P | 40892012552 |
| HDHN325 | HDSM | 13236.00 | PC | 5-9 | N2P | 40892012569 |
| HDUN221 | HDSM | 712.00 | PC | 5-9 | N2P | 40892012729 |
| HDUN222 | HDSM | 1126.00 | PC | 5-9 | N2P | 40892012736 |
| HDUN223 | HDSM | 1574.00 | PC | 5-9 | N2P | 40892012743 |
| HDUN224 | HDSM | 2189.00 | PC | 5-9 | N2P | 40892012750 |
| HDUN224AW | HDSM | 2794.00 | PC | 5-9 | N2P | 40892012811 |
| HDUN225 | HDSM | 6128.00 | PC | 5-9 | N2P | 40892012606 |
| HDUN225AW | HDSM | 9135.00 | PC | 5-9 | N2P | 40892012712 |
| HDUN321 | HDSM | 843.00 | PC | 5-9 | N2P | 40892012767 |
| HDUN322 | HDSM | 1347.00 | PC | 5-9 | N2P | 40892012774 |
| HDUN323 | HDSM | 2039.00 | PC | 5-9 | N2P | 40892012781 |
| HDUN323AW | HDSM | 2566.00 | PC | 5-9 | N2P | 40892012804 |
| HDUN324 | HDSM | 3142.00 | PC | 5-9 | N2P | 40892012798 |
| HDUN324AW | HDSM | 3888.00 | PC | 5-9 | N2P | 40892012828 |
| HDUN325 | HDSM | 8924.00 | PC | 5-9 | N2P | 40892012613 |
| HDUN361 | HDSM | 1038.00 | PC | 5-9 | N2P | 40892012620 |
| HDUN361AW | HDSM | 1856.00 | PC | 5-9 | N2P | 40892012651 |
| HDUN362 | HDSM | 3142.00 | PC | 5-9 | N2P | 40892012637 |
| HDUN362AW | HDSM | 2234.00 | PC | 5-9 | N2P | 40892012668 |
| HDUN363 | HDSM | 2300.00 | PC | 5-9 | N2P | 40892012644 |
| HDUN363AW | HDSM | 3781.00 | PC | 5-9 | N2P | 40892012675 |
| HDUN364 | HDSM | 3314.00 | PC | 5-9 | N2P | 78364345627 |
| HDUN364AW | HDSM | 5206.00 | PC | 5-9 | N2P | 40892012682 |
| HDUN365 | HDSM | 9258.00 | PC | 5-9 | N2P | 783643455634 |
| HDUN365AW | HDSM | 13925.00 | PC | 5-9 | N2P | 40892012699 |
| HDUN366AW | HDSM | 18119.00 | PC | 5-9 | N2P | 40892012705 |
| HG61234M | HDSM | 25.50 | PC | 5-11 | N2Q | 40892007480 |
| HG61234M | HDSM | 25.50 | PC | 5-11 | N2Q | 40892007480 |
| HG656M | HDSM | 130.00 | PC | 5-11 | N2Q | 40892007497 |
| HG678M | HDSM | 253.00 | PC | 5-11 | N2Q | 40892007503 |
| HNN321AS | HDSM | 2524.00 | PC | 5-8 | N2L | 40892005295 |
| HNN321N | HDSM | 272.00 | PC | 5-6 | N2J | 40892005011 |
| HNN321NW | HDSM | 516.00 | PC | 5-6 | N2K | 40892005172 |
| HNN322AS | HDSM | 2893.00 | PC | 5-8 | N2L | 40892005301 |
| HNN322N | HDSM | 543.00 | PC | 5-6 | N2J | 40892005028 |
| HNN322NW | HDSM | 969.00 | PC | 5-6 | N2K | 40892005189 |
| HNN323N | HDSM | 828.00 | PC | 5-6 | N2J | 40892005035 |
| HNN323NW | HDSM | 1244.00 | PC | 5-6 | N2K | 40892005196 |
| HNN324N | HDSM | 1474.00 | PC | 5-6 | N2J | 40892005042 |
| HNN324NW | HDSM | 1802.00 | PC | 5-6 | N2K | 40892005202 |
| HNN325N | HDSM | 3621.00 | PC | 5-6 | N2J | 40892005059 |
| HNN325NH | HDSM | 3593.00 | PC | 5-6 | N2J | 40892008098 |
| HNN325NW | HDSM | 4833.00 | PC | 5-6 | N2K | 40892005219 |
| HNN325NWH | HDSM | 4808.00 | PC | 5-6 | N2K | 40892008135 |
| HNN326N | HDSM | 6642.00 | PC | 5-6 | N2J | 40892005066 |
| HNN326NH | HDSM | 6611.00 | PC | 5-6 | N2J | 40892008104 |
| HNN326NW | HDSM | 8852.00 | PC | 5-6 | N2K | 40892005226 |
| HNN326NWH | HDSM | 8816.00 | PC | 5-6 | N2K | 40892008142 |
| HNN361 | HDSM | 602.00 | PC | 5-7 | N2J | 40892005332 |
| HNN361AJ | HDSM | 1061.00 | PC | 5-8 | N2M | 40892005622 |
| HNN361AS | HDSM | 2842.00 | PC | 5-8 | N2L | 40892005738 |
| HNN361AW | HDSM | 1043.00 | PC | 5-7 | N2K | 40892005479 |
| HNN361KJ | HDSM | 2042.00 | PC | 5-10 | N2N | 783643502130 |
| HNN362 | HDSM | 717.00 | PC | 5-7 | N2J | 40892005349 |
| HNN362AJ | HDSM | 1170.00 | PC | 5-8 | N2M | 40892005639 |
| HNN362AS | HDSM | 3048.00 | PC | 5-8 | N2L | 40892005745 |
| HNN362AW | HDSM | 1223.00 | PC | 5-7 | N2K | 40892005486 |
| HNN362CJ | HDSM | 2611.00 | PC | 5-10 | N2N | 40892011166 |
| HNN362KJ | HDSM | 2079.00 | PC | 5-10 | N2N | 783643502147 |
| HNN362LJ | HDSM | 2466.00 | PC | 5-10 | N2N | 783643502154 |
| HNN363 | HDSM | 1379.00 | PC | 5-7 | N2J | 40892005356 |
| HNN363AJ | HDSM | 1898.00 | PC | 5-8 | N2M | 40892005646 |
| HNN363AS | HDSM | 5965.00 | PC | 5-8 | N2L | 40892005752 |
| HNN363AW | HDSM | 1895.00 | PC | 5-7 | N2K | 40892005493 |
| HNN364 | HDSM | 1940.00 | PC | 5-7 | N2J | 40892005363 |
| HNN364AJ | HDSM | 2857.00 | PC | 5-8 | N2M | 40892005653 |
| HNN364AS | HDSM | 8477.00 | PC | 5-8 | N2L | 40892005769 |
| HNN364AW | HDSM | 2591.00 | PC | 5-7 | N2K | 40892005509 |
| HNN365 | HDSM | 5192.00 | PC | 5-7 | N2J | 40892005370 |
| HNN365AW | HDSM | 6257.00 | PC | 5-7 | N2K | 40892005516 |
| HNN365AWH | HDSM | 6230.00 | PC | 5-7 | N2K | 40892008197 |
| HNN365H | HDSM | 5168.00 | PC | 5-7 | N2J | 40892008173 |
| HNN366 | HDSM | 9013.00 | PC | 5-7 | N2J | 40892005387 |
| HNN366AW | HDSM | 12404.00 | PC | 5-7 | N2K | 40892005523 |
| HNN366AWH | HDSM | 12377.00 | PC | 5-7 | N2K | 40892008203 |
| HNN366H | HDSM | 8984.00 | PC | 5-7 | N2J | 40892008180 |
| HNN421N | HDSM | 356.00 | PC | 5-6 | N2J | 40892005097 |
| HNN421NW | HDSM | 657.00 | PC | 5-6 | N2K | 40892005233 |

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| HNN422N | HDSM | 602.00 | PC | 5-6 | N2J | 40892005103 |
| HNN422NW | HDSM | 1038.00 | PC | 5-6 | N2K | 40892005240 |
| HNN423N | HDSM | 960.00 | PC | 5-6 | N2J | 40892005110 |
| HNN423NW | HDSM | 1484.00 | PC | 5-6 | N2K | 40892005257 |
| HNN424N | HDSM | 1664.00 | PC | 5-6 | N2J | 40892005127 |
| HNN424NW | HDSM | 2020.00 | PC | 5-6 | N2K | 40892005264 |
| HNN425N | HDSM | 4434.00 | PC | 5-6 | N2J | 40892005134 |
| HNN425NH | HDSM | 4411.00 | PC | 5-6 | N2J | 40892008111 |
| HNN425NW | HDSM | 4946.00 | PC | 5-6 | N2K | 40892005271 |
| HNN425NWH | HDSM | 4922.00 | PC | 5-6 | N2K | 40892008159 |
| HNN426N | HDSM | 7530.00 | PC | 5-6 | N2J | 40892005141 |
| HNN426NH | HDSM | 7497.00 | PC | 5-6 | N2J | 40892008128 |
| HNN426NW | HDSM | 9952.00 | PC | 5-6 | N2K | 40892005288 |
| HNN426NWH | HDSM | 9915.00 | PC | 5-6 | N2K | 40892008166 |
| HNN461NW | HDSM | 1126.00 | PC | 5-7 | N2K | 40892005547 |
| HNN462NW | HDSM | 1305.00 | PC | 5-7 | N2K | 40892006551 |
| HLN327N | HDSM | 11783.00 | PC | 5-6 | N2J | 40892005073 |
| HLN328N | HDSM | 14509.00 | PC | 5-6 | N2J | 40892006377 |
| HLN367 | HDSM | 15715.00 | PC | 5-7 | N2J | 40892005394 |
| HLN367AW | HDSM | 19054.00 | PC | 5-7 | N2K | 40892005530 |
| HLN368 | HDSM | 19847.00 | PC | 5-7 | N2J | 40892005400 |
| HLN368AW | HDSM | 23443.00 | PC | 5-7 | N2K | 40892007039 |
| HLN427N | HDSM | 14407.00 | PC | 5-6 | N2J | 40892005158 |
| HLN427NW | HDSM | 18477.00 | PC | 5-6 | N2K | 40892006384 |
| HLN428N | HDSM | 17963.00 | PC | 5-6 | N2J | 40892005165 |
| HLN428NW | HDSM | 22361.00 | PC | 5-6 | N2K | 40892006391 |
| HN263M | HDSM | 239.00 | PC | 5-9 | N2Q | 783643471726 |
| HN612M | HDSM | 103.00 | PC | 5-11 | N2Q | 40892007510 |
| HN623M | HDSM | 197.00 | PC | 5-11 | N2Q | 40892007527 |
| HN64M | HDSM | 190.00 | PC | 5-11 | N2Q | 783643194427 |
| HN656M | HDSM | 462.00 | PC | 5-11 | N2Q | 40892007534 |
| HN678M | HDSM | 888.00 | PC | 5-9 | N2Q | 40892007541 |
| HN678M | HDSM | 888.00 | PC | 5-9 | N2Q | 40892007541 |
| HNC264M | HDSM | 373.00 | PC | 5-9 | N2Q | 783643471733 |
| HNC612M | HDSM | 103.00 | PC | 5-11 | N2Q | 783643471719 |
| HR21M | HDSM | 88.00 | PC | 5-11 | N2Q | 40892007558 |
| HR612M | HDSM | 88.00 | PC | 5-11 | N2Q | 40892007565 |
| HR62M | HDSM | 88.00 | PC | 5-11 | N2Q | 783643194540 |
| HR63M | HDSM | 57.00 | PC | 5-11 | N2Q | 40892007572 |
| HR64M | HDSM | 57.00 | PC | 5-11 | N2Q | 40892007589 |
| HR656M | HDSM | 145.00 | PC | 5-11 | N2Q | 40892007596 |
| HT23M | HDSM | 81.00 | PC | 5-11 | N2Q | 40892007602 |
| HT24M | HDSM | 108.00 | PC | 5-11 | N2Q | 40892007619 |
| HT63M | HDSM | 127.00 | PC | 5-11 | N2Q | 40892007626 |
| HT64M | HDSM | 152.00 | PC | 5-11 | N2Q | 40892007633 |
| HUN361 | HDSM | 317.00 | PC | 5-7 | N2J | 40892005417 |
| HUN361AJ | HDSM | 710.00 | PC | 5-8 | N2M | 40892005677 |
| HUN361AS | HDSM | 2377.00 | PC | 5-8 | N2L | 40892005783 |
| HUN361AW | HDSM | 564.00 | PC | 5-7 | N2K | 40892005561 |
| HUN362 | HDSM | 564.00 | PC | 5-7 | N2J | 40892005424 |
| HUN362AJ | HDSM | 1003.00 | PC | 5-8 | N2M | 40892005684 |
| HUN362AS | HDSM | 2745.00 | PC | 5-8 | N2L | 40892005790 |
| HUN362AW | HDSM | 992.00 | PC | 5-7 | N2K | 40892005578 |
| HUN362CJ | HDSM | 2462.00 | PC | 5-10 | N2N | 40892011173 |
| HUN363 | HDSM | 916.00 | PC | 5-7 | N2J | 40892005431 |
| HUN363AJ | HDSM | 1418.00 | PC | 5-8 | N2M | 40892005691 |
| HUN363AS | HDSM | 5510.00 | PC | 5-8 | N2L | 40892005806 |
| HUN363AW | HDSM | 1418.00 | PC | 5-7 | N2K | 40892005585 |
| HUN364 | HDSM | 1393.00 | PC | 5-7 | N2J | 40892005448 |
| HUN364AJ | HDSM | 1794.00 | PC | 5-8 | N2M | 40892005707 |
| HUN364AS | HDSM | 7503.00 | PC | 5-8 | N2L | 40892005813 |
| HUN364AW | HDSM | 1713.00 | PC | 5-7 | N2K | 40892005592 |
| HUN365 | HDSM | 3252.00 | PC | 5-7 | N2J | 40892005455 |
| HUN365AJ | HDSM | 4401.00 | PC | 5-8 | N2M | 40892005714 |
| HUN365AW | HDSM | 4353.00 | PC | 5-7 | N2K | 40892005608 |
| HUN366 | HDSM | 5795.00 | PC | 5-7 | N2J | 40892005462 |
| HUN366AW | HDSM | 8636.00 | PC | 5-7 | N2K | 40892005615 |
| HVHRA | MURR | 32.50 | PC | 5-12 | NP1 | 40892537642 |
| HX327TF | HDSS | 217.00 | PC | 5-11 | N4F | 40892524529 |
| HX328TF | HDSS | 542.00 | PC | 5-11 | N4F | 40892524536 |
| HX367TF | HDSS | 237.00 | PC | 5-11 | N4F | 40892524642 |
| I0202L1200 | RESI | 71.00 | PC | 1-9 | V16 | 783643448858 |
| I0204ML1125 | RESI | 33.50 | PC | 1-9 | V16 | 783643470705 |
| I0303ML3100 | RESI | 63.00 | PC | 1-9 | V16 | 783643470712 |
| I0408ML1125 | RESI | 61.00 | PC | 1-9 | V16 | 783643183582 |
| I0816L1200CT | RESI | 175.00 | PC | 1-9 | V16 | 783643447950 |
| I0816ML1125CU | RESI | 116.00 | PC | 1-9 | V16 | 783643252493 |
| I0816ML1125CUSP | RESI | 116.00 | PC | 1-9 | V16 | 783643463790 |
| I1224L1125CU | RESI | 140.00 | PC | 1-9 | V16 | 783643463660 |
| I1224L1200CU | RESI | 200.00 | PC | 1-9 | V16 | 783643447936 |

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| 11224L3125CU | RESI | 270.00 | PC | 1-9 | V16 | 783643492721 |
| 11224L3200CU | RESI | 293.00 | PC | 1-9 | V16 | 783643492738 |
| 11624L1125CU | RESI | 164.00 | PC | 1-9 | V16 | 783643447967 |
| 11836L3200CU | RESI | 351.00 | PC | 1-9 | V16 | 783643492745 |
| 12040L1200CU | RESI | 245.00 | PC | 1-9 | V16 | 783643434325 |
| 12424L1125 | RESI | 187.00 | PC | 1-9 | V16 | 783643492547 |
| 12442L3200CU | RESI | 409.00 | PC | 1-9 | V16 | 783643485136 |
| 13040L1125CU | RESI | 210.00 | PC | 1-9 | V16 | 783643492554 |
| 13040L1200CU | RESI | 364.00 | PC | 1-9 | V16 | 783643492561 |
| 13042L3200CU | RESI | 550.00 | PC | 1-9 | V16 | 783643485105 |
| 14040L1200CU | RESI | 400.00 | PC | 1-9 | V16 | 783643492578 |
| 14242L1225CU | RESI | 527.00 | PC | 1-9 | V16 | 783643492585 |
| 14242L3225CU | RESI | 644.00 | PC | 1-9 | V16 | 783643485143 |
| IR0816L1200TR | RESI | 140.00 | PC | 1-9 | V16 | 783643492639 |
| IR1224L1125 | RESI | 105.00 | PC | 1-9 | V16 | 783643492592 |
| IR1632L1125 | RESI | 130.00 | PC | 1-9 | V16 | 783643492608 |
| IR2040L1125CU | RESI | 153.00 | PC | 1-9 | V16 | 783643492615 |
| IR2040L1200CU | RESI | 200.00 | PC | 1-9 | V16 | 783643492646 |
| IR2440L1125 | RESI | 223.00 | PC | 1-9 | V16 | 783643492653 |
| IR3040L1200 | RESI | 176.00 | PC | 1-9 | V16 | 783643492622 |
| IR3040L1200CU | RESI | 245.00 | PC | 1-9 | V16 | 783643492660 |
| IR4040L1200CU | RESI | 317.00 | PC | 1-9 | V16 | 783643492677 |
| IR4242L1225CU | RESI | 409.00 | PC | 1-9 | V16 | 783643492684 |
| JA0408B1150RT | MURR | 1404.00 | PC | 3-22 | NS3 | 40892013603 |
| JA0408B1150T | MURR | 1404.00 | PC | 3-22 | NS3 | 40892013573 |
| JA0408B1200RT | MURR | 1404.00 | PC | 3-22 | NS3 | 40892013597 |
| JA0408B1200T | MURR | 1404.00 | PC | 3-22 | NS3 | 40892013580 |
| JA0408B1400RLTM | MURR | 1331.00 | PC | 3-23 | NS4 | 40892013023 |
| JA0606L1200 | MURR | 1099.00 | PC | 3-22 | NS3 | 40892013559 |
| JA0606L1200R | MURR | 1099.00 | PC | 3-22 | NS3 | 40892013566 |
| JA0606L1200RA | MURR | 1331.00 | PC | 3-22 | NS3 | 40892013979 |
| JA0816B1150CT | MURR | 1477.00 | PC | 3-22 | NS3 | 40892013627 |
| JA0816B1150RCT | MURR | 1477.00 | PC | 3-22 | NS3 | 40892013641 |
| JA0816B1150RTH | MURR | 1404.00 | PC | 3-23 | NS3 | 40892010114 |
| JA0816B1150T | MURR | 000.00 | PC | 3-22 | NS3 | 40892010114 |
| JA0816B1150TH | MURR | 1404.00 | PC | 3-23 | NS3 | 40892010107 |
| JA0816B1200CT | MURR | 1477.00 | PC | 3-22 | NS3 | 40892013610 |
| JA0816B1200RCT | MURR | 1477.00 | PC | 3-22 | NS3 | 40892013634 |
| JA0816B1200RT | MURR | 1441.00 | PC | 3-22 | NS3 | 40892008784 |
| JA0816B1200RTH | MURR | 1477.00 | PC | 3-23 | NS3 | 40892010077 |
| JA0816B1200SCTM | MURR | 1822.00 | PC | 3-25 | NS3 | 40892013245 |
| JA0816B1200T | MURR | 1391.00 | PC | 3-22 | NS3 | 40892008791 |
| JA0816B1200TH | MURR | 1477.00 | PC | 3-23 | NS3 | 40892010060 |
| JA0816B1350RLTM | MURR | 1099.00 | PC | 3-23 | NS4 | 40892013542 |
| JA0816B1400FD | MURR | 4911.00 | PC | 3-26 | | |
| JA0816B1400FDS | MURR | 5550.00 | PC | 3-26 | | |
| JA0816B1400RLTM | MURR | 1404.00 | PC | 3-23 | NS4 | 40892013016 |
| JA0816B1400SCS | MURR | 5246.00 | PC | 3-26 | | |
| JA0816B1400SCS | MURR | 5554.00 | PC | 3-26 | | |
| JA1020B1100F | MURR | 688.00 | PC | 3-22 | NS2 | 40892015300 |
| JA1020B1100F | MURR | 688.00 | PC | 3-22 | NS2 | 40892015300 |
| JA110AF | MURR | 688.00 | PC | 3-23 | NS2 | 40892251661 |
| JA110AS | MURR | 688.00 | PC | 3-23 | NS2 | 40892251647 |
| JA1212L1200FED | MURR | 1424.00 | PC | 3-25 | NS3 | 40892013900 |
| JA1212L1200FED | MURR | 1424.00 | PC | 3-25 | NS3 | 40892013900 |
| JA1212L1200SED | MURR | 1424.00 | PC | 3-25 | NS3 | 40892013917 |
| JA1224B1100FEC | MURR | 776.00 | PC | 3-25 | NS2 | 40892013061 |
| JA1224B1100SEC | MURR | 776.00 | PC | 3-25 | NS2 | 40892013078 |
| JA1224B1125FEC | MURR | 1049.00 | PC | 3-25 | NS2 | 40892013184 |
| JA1224B1125SEC | MURR | 1049.00 | PC | 3-25 | NS2 | 40892013191 |
| JA1632B1100FEC | MURR | 871.00 | PC | 3-25 | NS2 | 40892013207 |
| JA1632B1100SEC | MURR | 871.00 | PC | 3-25 | NS2 | 40892013214 |
| JA1632B1125FEC | MURR | 1787.00 | PC | 3-25 | NS2 | 40892013085 |
| JA2040B1200 | MURR | 1099.00 | PC | 3-23 | NS3 | 40892010084 |
| JA2040B1200F | MURR | 1790.00 | PC | 3-22 | NS3 | 40892015270 |
| JA2040B1200FED | MURR | 2017.00 | PC | 3-25 | NS3 | 40892013092 |
| JA2040B1200R | MURR | 1782.00 | PC | 3-22 | NS3 | 40892010091 |
| JA2040B1200S | MURR | 1790.00 | PC | 3-22 | NS3 | 40892015263 |
| JA2040B1200SED | MURR | 2017.00 | PC | 3-25 | NS3 | 40892013887 |
| JA220CF | MURR | 1790.00 | PC | 3-23 | NS3 | 40892252453 |
| JA220CS | MURR | 1790.00 | PC | 3-23 | NS3 | 40892252422 |
| JA242B1200FEC | MURR | 2099.00 | PC | 3-25 | NS3 | 40892013108 |
| JA242B1200SEC | MURR | 2099.00 | PC | 3-25 | NS3 | 40892013122 |
| JA3040B1200SECW | MURR | 776.00 | PC | 3-25 | NS3 | 40892011999 |
| JA3042B1200FED | MURR | 2017.00 | PC | 3-25 | NS3 | 40892013115 |
| JA3042B1200SED | MURR | 2017.00 | PC | 3-25 | NS3 | 40892013870 |
| JA3042B1225FED | MURR | 2157.00 | PC | 3-25 | NS3 | 40892013863 |
| JA3042B1225SED | MURR | 2157.00 | PC | 3-25 | NS3 | 40892013894 |
| JA3042B1400FD | MURR | 5958.00 | PC | 3-26 | NS4 | 40892014815 |
| JA3042B1400FDS | RESI | 6308.00 | PC | 3-26 | NS7 | 40892014839 |

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| JA3042B1400SCS | | 6311.00 | | 3-26 | | |
| JA3042B1400SDB | | 5986.00 | | 3-26 | | |
| JA3042B1400SDL | | 5818.00 | | 3-26 | | |
| JA3042B1400SDS | | 6052.00 | | 3-26 | | |
| JA4040B1200SECW | MURR | 776.00 | PC | 3-25 | NS3 | 40892011982 |
| JC002AR | MURR | 390.00 | PC | 3-21 | NS5 | 40892255003 |
| JC002CS | MURR | 368.00 | PC | 3-21 | NS5 | 40892523195 |
| JC002CZ | MURR | 375.00 | PC | 3-21 | NS5 | 40892255034 |
| JC0202B1125RJB | MURR | 1232.00 | PC | 3-21 | NS5 | 40892008807 |
| JC0202B1200 | MURR | 1849.00 | PC | 3-21 | NS6 | 40892008814 |
| JC0202B1200R | MURR | 1849.00 | PC | 3-21 | NS6 | 40892009286 |
| JC0202B1200RJB | MURR | 1849.00 | PC | 3-21 | NS6 | 40892008852 |
| JC0404L1400FD | MURR | 4909.00 | PC | 3-24 | | |
| JC0404L1400FDS | MURR | 5046.00 | PC | 3-24 | | |
| JC0404L1400RLM | MURR | 3083.00 | PC | 3-21 | NS4 | 40892012989 |
| JC0404L1400SC | MURR | 4769.00 | PC | 3-24 | NS4 | 40892014853 |
| JC0404L1400SCS | MURR | 5049.00 | PC | 3-24 | | |
| JC0406L1125FEC | MURR | 388.00 | PC | 3-24 | NS5 | 40892013221 |
| JC0406L1125SEC | MURR | 388.00 | PC | 3-24 | NS5 | 40892013139 |
| JC0406L1200FEC | MURR | 1051.00 | PC | 3-24 | NS6 | 40892013146 |
| JC0406L1200RH | MURR | 1005.00 | PC | 3-21 | NS6 | 40892008920 |
| JC0406L1200RHJ | MURR | 1061.00 | PC | 3-21 | NS6 | 40892008913 |
| JC0406L1200RHJB | MURR | 1097.00 | PC | 3-21 | NS6 | 40892008869 |
| JC0406L1200SEC | MURR | 1051.00 | PC | 3-24 | NS6 | 40892013153 |
| LC002GS | MURR | 77.00 | PC | 1-7 | NN9 | 40892532463 |
| LC002HS | MURR | 99.00 | PC | 1-7 | NQ5 | 40892537543 |
| LC004NF | MURR | 94.00 | PC | 1-7 | NN9 | 40892258608 |
| LC004NS | MURR | 94.00 | PC | 1-7 | NN9 | 40892258639 |
| LC004VS | MURR | 265.00 | PC | 1-7 | NQ5 | 40892258837 |
| LC008DF | MURR | 185.00 | PC | 1-7 | NN9 | 40892259155 |
| LC008DFG | MURR | 201.00 | PC | 1-7 | NN9 | 40892259179 |
| LC008DS | MURR | 185.00 | PC | 1-7 | NN9 | 40892259193 |
| LC008DSG | MURR | 201.00 | PC | 1-7 | NN9 | 40892259375 |
| LC024PFR | MURR | 655.00 | PC | 1-7 | NNB | 40892004731 |
| LC042SS | MURR | 1925.00 | PC | 1-4 | NNL | 40892260557 |
| LC100CS | MURR | 325.00 | PC | 1-7 | NQ7 | 40892261004 |
| LC110DFCGP | MURR | 506.00 | PC | 1-7 | NNJ | 40892004748 |
| LC110DFCGP | MURR | 506.00 | PC | 1-7 | NNJ | 40892004748 |
| LC1224B10060GC | MURR | 886.00 | PC | 1-8 | NPO | 40892009941 |
| LC1224B1100 | MURR | 505.00 | PC | 1-5 | NNC | 40892009415 |
| LC1224B3100CU | MURR | 1002.00 | PC | 1-6 | NPD | 40892012415 |
| LC1224B6060GC | MURR | 703.00 | PC | 1-8 | NPO | 40892009934 |
| LC1224L1125 | MURR | 255.00 | PC | 1-4 | NNB | 40892009606 |
| LC1224L1125 | MURR | 255.00 | PC | 1-4 | NNB | 40892009606 |
| LC1224L3125CU | MURR | 388.00 | PC | 1-6 | NPC | 40892012347 |
| LC1632B1150 | MURR | 889.00 | PC | 1-5 | NNC | 40892009460 |
| LC1632B1200 | MURR | 889.00 | PC | 1-5 | NNC | 40892009507 |
| LC1632L1125 | MURR | 334.00 | PC | 1-4 | NNB | 40892009613 |
| LC1632L1150 | MURR | 417.00 | PC | 1-4 | NNB | 40892009637 |
| LC1836B3100CU | MURR | 1116.00 | PC | 1-6 | NPD | 40892012422 |
| LC1836L3150CU | MURR | 540.00 | PC | 1-6 | NPC | 40892012354 |
| LC1836L3200CU | MURR | 640.00 | PC | 1-6 | NPC | 40892012361 |
| LC200VS | MURR | 763.00 | PC | 1-7 | NQ7 | 40892261981 |
| LC2040B1100 | MURR | 549.00 | PC | 1-5 | NNC | 40892009439 |
| LC2040B1100CU | MURR | 549.00 | PC | 1-5 | NNC | 40892009439 |
| LC2040B1100CU | MURR | 584.00 | PC | 1-5 | NNC | 40892009705 |
| LC2040B1150 | MURR | 990.00 | PC | 1-5 | NNC | 40892009477 |
| LC2040B1200 | MURR | 990.00 | PC | 1-5 | NNC | 40892009521 |
| LC2040B1200 | MURR | 990.00 | PC | 1-5 | NNC | 40892009521 |
| LC2040B1200CU | MURR | 1050.00 | PC | 1-5 | NNC | 40892009712 |
| LC2040L1125 | MURR | 423.00 | PC | 1-4 | NNB | 40892009620 |
| LC2040L1125CU | MURR | 449.00 | PC | 1-4 | NNB | 40892009743 |
| LC2040L1200 | MURR | 593.00 | PC | 1-4 | NNB | 40892009651 |
| LC2040L1200CU | MURR | 627.00 | PC | 1-4 | NNB | 40892009750 |
| LC2440B1100 | MURR | 699.00 | PC | 1-5 | NNE | 40892009446 |
| LC2440B1150 | MURR | 1040.00 | PC | 1-5 | NNE | 40892009484 |
| LC2440B1200 | MURR | 1040.00 | PC | 1-5 | NNE | 40892009538 |
| LC2440L1150 | MURR | 505.00 | PC | 1-4 | NND | 40892009644 |
| LC2440L1200 | MURR | 602.00 | PC | 1-4 | NND | 40892009668 |
| LC2442L3150CU | MURR | 677.00 | PC | 1-6 | NPC | 40892012378 |
| LC3040B1100 | MURR | 776.00 | PC | 1-5 | NNE | 40892009453 |
| LC3040B1150 | MURR | 1116.00 | PC | 1-5 | NNE | 40892009491 |
| LC3040B1200 | MURR | 1210.00 | PC | 1-5 | NNE | 40892009552 |
| LC3040B1200 | MURR | 1210.00 | PC | 1-5 | NNE | 40892009552 |
| LC3040B1200CU | MURR | 1280.00 | PC | 1-5 | NNE | 40892009729 |
| LC3040L1125 | MURR | 533.00 | PC | 1-4 | NND | 40892010183 |
| LC3040L1200 | MURR | 644.00 | PC | 1-4 | NND | 40892009675 |
| LC3040L1200CU | MURR | 682.00 | PC | 1-4 | NND | 40892009677 |

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|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| LC3042B3150CU | MURR | 2168.00 | PC | 1-6 | NPD | 40892012439 |
| LC3042B3200CU | MURR | 2168.00 | PC | 1-6 | NPD | 40892012446 |
| LC3042L3200CU | MURR | 742.00 | PC | 1-6 | NPC | 40892012385 |
| LC330SS | MURR | 2820.00 | PC | 1-5 | NNM | 40892263367 |
| LC4040B1200 | MURR | 1403.00 | PC | 1-5 | NNE | 40892009576 |
| LC4040B1200 | MURR | 1403.00 | PC | 1-5 | NNE | 40892009576 |
| LC4040B1200CU | MURR | 1486.00 | PC | 1-5 | NNE | 40892009736 |
| LC4040L1200 | MURR | 880.00 | PC | 1-4 | NND | 40892009682 |
| LC4040L1200CU | MURR | 933.00 | PC | 1-4 | NND | 40892009774 |
| LC4242B3200CU | MURR | 2454.00 | PC | 1-6 | NPD | 40892012453 |
| LC4242B3225CU | MURR | 2635.00 | PC | 1-6 | NPD | 40892012460 |
| LC4242L1225CU | MURR | 990.00 | PC | 1-4 | NND | 40892010022 |
| LC4242L3225CU | MURR | 1047.00 | PC | 1-6 | NPC | 40892012408 |
| LC442SS | MURR | 6483.00 | PC | 1-5 | NNM | 40892263459 |
| LP003CS | MURR | 184.00 | PC | 1-7 | NPC | 40892267532 |
| LP042SS | MURR | 2025.00 | PC | 1-6 | NPC | 40892268560 |
| LP442SS | MURR | 6561.00 | PC | 1-6 | NPD | 40892269604 |
| LW002GR | MURR | 152.00 | PC | 1-7 | NNA | 40892532487 |
| LW002GR | MURR | 152.00 | PC | 1-7 | NNA | 40892532487 |
| LW002HR | MURR | 193.00 | PC | 1-7 | NNA | 40892270563 |
| LW002QR | MURR | 514.00 | PC | 1-7 | NGU | 40892524857 |
| LW004NR | MURR | 166.00 | PC | 1-7 | NNA | 40892270655 |
| LW004NRSPA50 | MURR | 655.00 | PC | 1-7 | NNJ | 40892012118 |
| LW004NRSPA50 | MURR | 655.00 | PC | 1-7 | NNJ | 40892012118 |
| LW004NRSPA60 | MURR | 689.00 | PC | 1-7 | NNJ | 40892013047 |
| LW004NRSPA60 | MURR | 689.00 | PC | 1-7 | NNJ | 40892013047 |
| LW004TR | MURR | 460.00 | PC | 1-7 | NNK | 40892519341 |
| LW004VR | MURR | 459.00 | PC | 1-7 | NO6 | 40892270679 |
| LW008NR | MURR | 279.00 | PC | 1-7 | NNA | 40892270853 |
| LW042SR | MURR | 2499.00 | PC | 1-4 | NNL | 40892271430 |
| LW0816L1200TR | MURR | 526.00 | PC | 1-7 | NNK | 40892009958 |
| LW100CR | MURR | 387.00 | PC | 1-7 | NO8 | 40892271706 |
| LW102NL | MURR | 428.00 | PC | 1-7 | NNK | 40892531565 |
| LW1224B1100 | MURR | 652.00 | PC | 1-5 | NNG | 40892009781 |
| LW1224B1200 | MURR | 966.00 | PC | 1-5 | NNG | 40892009811 |
| LW1224L1125 | MURR | 408.00 | PC | 1-4 | NNF | 40892009859 |
| LW1224L1200 | MURR | 555.00 | PC | 1-4 | NNF | 40892009880 |
| LW1224L1225CU | MURR | 728.00 | PC | 1-4 | NNH | 40892014037 |
| LW1224L3125CU | MURR | 526.00 | PC | 1-6 | NPE | 40892012477 |
| LW1632B1100 | MURR | 673.00 | PC | 1-5 | NNG | 40892009798 |
| LW1632L1125 | MURR | 491.00 | PC | 1-4 | NNF | 40892009866 |
| LW1836L3150CU | MURR | 687.00 | PC | 1-6 | NPE | 40892012484 |
| LW200VR | MURR | 958.00 | PC | 1-7 | NO8 | 40892272307 |
| LW2040B1150 | MURR | 1154.00 | PC | 1-5 | NNG | 40892009804 |
| LW2040B1200 | MURR | 1154.00 | PC | 1-5 | NNG | 40892009828 |
| LW2040L1125 | MURR | 572.00 | PC | 1-4 | NNF | 40892009873 |
| LW2040L1200 | MURR | 737.00 | PC | 1-4 | NNF | 40892009897 |
| LW204TL | MURR | 987.00 | PC | 1-7 | NNK | 40892528800 |
| LW3040B1200 | MURR | 1465.00 | PC | 1-5 | NNI | 40892009835 |
| LW3040L1200 | MURR | 834.00 | PC | 1-4 | NNH | 40892009903 |
| LW3042B3200CU | MURR | 2414.00 | PC | 1-6 | NPF | 40892012507 |
| LW3042L3200CU | MURR | 906.00 | PC | 1-6 | NPE | 40892012491 |
| LW4040B1200 | MURR | 1680.00 | PC | 1-5 | NNI | 40892009842 |
| LW4242L1225CU | MURR | 1499.00 | PC | 1-4 | NNH | 40892009910 |
| LW903QR | MURR | 565.00 | PC | 1-7 | NGU | 40892524864 |
| LX077SF | MURR | 135.00 | PC | 1-10 | NP3 | 40892271607 |
| LX100FP | MURR | 2.90 | PC | 3-93 | NP3 | 40892527254 |
| LX400FP | MURR | 17.50 | PC | 2-13 | NP3 | 40892006278 |
| LXA1225 | MCCB | 16.10 | PC | 2-15 | NK0 | 40892006353 |
| LZ442SR | MURR | 7450.00 | PC | 1-6 | NPF | 40892276305 |
| MBK100M | MURR | 367.00 | PC | 2-13 | NRE | 40892009347 |
| MBK100M | MURR | 367.00 | PC | 2-13 | NRE | 40892009347 |
| MBK125M | MURR | 500.00 | PC | 2-13 | NRE | 40892009354 |
| MBK125M | MURR | 500.00 | PC | 2-13 | NRE | 40892009354 |
| MBK150M | MURR | 622.00 | PC | 2-13 | NRE | 40892009361 |
| MBK150M | MURR | 622.00 | PC | 2-13 | NRE | 40892009361 |
| MBK175M | MURR | 622.00 | PC | 2-13 | NRE | 40892014525 |
| MBK200M | MURR | 622.00 | PC | 2-13 | NRE | 40892009378 |
| MBK200M | MURR | 622.00 | PC | 2-13 | NRE | 40892009378 |
| MBK225M | MURR | 622.00 | PC | 2-13 | NRE | 40892009385 |
| MBK225M | MURR | 622.00 | PC | 2-13 | NRE | 40892009385 |
| MC1020B1100EY | RESI | 1771.00 | PC | 3-39 | NS7 | 40892015195 |
| MC104BD | RESI | 19686.00 | PC | 3-69 | V4U | 783643101968 |
| MC10BD | | 13348.00 | | 3-69 | | |
| MC1224B1100CEY | RESI | 1839.00 | PC | 3-39 | NS7 | 40892015201 |
| MC124BD | RESI | 29152.00 | PC | 3-69 | V4U | 783643101463 |
| MC12BD | | 19445.00 | | 3-69 | | |
| MC1830F3100CEY | RESI | 3339.00 | PC | 3-39 | NS8 | 40892015218 |

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|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| MC20 | RESI | 43272.00 | PC | 3-56 | V4U | 783643130944 |
| MC20 | RESI | 43272.00 | PC | 3-56 | V4U | 783643130944 |
| MC2440B1200CEY | | 3692.00 | | 3-39 | | |
| MC2442F3200CEY | RESI | 3294.00 | PC | 3-39 | NS8 | 40892015225 |
| MC44BD | RESI | 8017.00 | PC | 3-69 | V4U | 783643325937 |
| MC4BD | | 4777.00 | | 3-69 | | |
| MC64BD | RESI | 12062.00 | PC | 3-69 | V4U | 783643170162 |
| MC6BD | | 7250.00 | | 3-69 | | |
| MC84BD | RESI | 15773.00 | PC | 3-69 | V4U | 783643173231 |
| MC8BD | RESI | 12264.00 | PC | 3-69 | V4U | 783643426368 |
| MM0202F1100CEY | RESI | 1689.00 | PC | 3-38 | NS7 | 40892015096 |
| MM0202F1100EY | RESI | 1847.00 | PC | 3-38 | NS7 | 40892015089 |
| MM0202F3200CEY | RESI | 2632.00 | PC | 3-38 | NS7 | 40892015171 |
| MM0202F200EY | RESI | 2473.00 | PC | 3-38 | NS7 | 40892015164 |
| MM0202L1100EY | RESI | 910.00 | PC | 3-38 | NS7 | 40892015065 |
| MM0202L1200CEY | RESI | 1776.00 | PC | 3-38 | NS7 | 40892015133 |
| MM0202L1200EY | RESI | 1769.00 | PC | 3-38 | NS7 | 40892015126 |
| MM0303F3100CEY | RESI | 2259.00 | PC | 3-38 | NS8 | 40892015119 |
| MM0303F3100EY | RESI | 2473.00 | PC | 3-38 | NS8 | 40892015102 |
| MM0303F3200CEY | RESI | 3461.00 | PC | 3-38 | NS8 | 40892015188 |
| MM0303F3200EY | RESI | 3199.00 | PC | 3-38 | NS8 | 783643956506 |
| MM0303L1300EY | RESI | 1345.00 | PC | 3-38 | NS8 | 40892015072 |
| MM0303L3200EY | RESI | 2356.00 | PC | 3-38 | NS8 | 40892015157 |
| MM0303L3200EY | RESI | 2207.00 | PC | 3-38 | NS8 | 40892015140 |
| MMBMT1 | | 14.00 | | 3-68 | | |
| MMBMT2 | | 24.00 | | 3-68 | | |
| MMCVR1 | | 10.00 | | 3-68 | | |
| MMCVR1R | | 10.00 | | 3-68 | | |
| MMCVR2 | | 10.00 | | 3-68 | | |
| MMCVR2R | | 10.00 | | 3-68 | | |
| MMCVRLW | | 14.00 | | 3-68 | | |
| MMCVRSCR | | 10.00 | | 3-68 | | |
| MMPK11 | | 16.00 | | 3-68 | | |
| MMPK13 | | 16.00 | | 3-68 | | |
| MMPK21 | | 16.00 | | 3-68 | | |
| MMPK23 | | 16.00 | | 3-68 | | |
| MMCK1 | MURR | 22.00 | PC | 3-68 | NSH | 40892015379 |
| MMCK2 | MURR | 22.00 | PC | 3-68 | NSH | 40892015430 |
| MP110 | MURR | 35.00 | PC | 2-6 | NU9 | 783643510074 |
| MP115 | MURR | 35.00 | PC | 2-6 | NU9 | 40892518887 |
| MP115AF | MURR | 270.00 | PC | 2-8 | NPN | 40892006216 |
| MP115AFC | | 300.00 | | 2-8 | | |
| MP115AFCH | | 606.00 | | 2-8 | | |
| MP115AFH | MURR | 545.00 | PC | 2-8 | NQ1 | 40892006230 |
| MP115EG | MURR | 492.00 | PC | 2-9 | NQ1 | 40892008258 |
| MP115EGH | MURR | 808.00 | PC | 2-9 | NQK | 40892010961 |
| MP115GF | MURR | 270.00 | PC | 2-9 | NQP | 40892278057 |
| MP115GFH | MURR | 545.00 | PC | 2-9 | NR1 | 40892010855 |
| MP115HID | MURR | 46.00 | PC | 2-10 | NVO | 40892011036 |
| MP115KH | MURR | 74.00 | PC | 2-6 | NUA | 40892523027 |
| MP115KM | MURR | 131.00 | PC | 2-6 | NUB | 40892527506 |
| MP115T | MURR | 35.00 | PC | 2-10 | NVO | 40892011098 |
| MP120 | MURR | 35.00 | PC | 2-6 | NU9 | 40892518894 |
| MP120AF | MURR | 270.00 | PC | 2-8 | NPN | 40892006247 |
| MP120AFC | | 300.00 | | 2-8 | | |
| MP120AFCH | | 606.00 | | 2-8 | | |
| MP120AFH | MURR | 545.00 | PC | 2-8 | NQ1 | 40892006261 |
| MP120EG | MURR | 492.00 | PC | 2-9 | NQ1 | 40892008326 |
| MP120EGH | MURR | 808.00 | PC | 2-9 | NQK | 40892010954 |
| MP120GF | MURR | 270.00 | PC | 2-9 | NQP | 40892278156 |
| MP120GFH | MURR | 545.00 | PC | 2-9 | NR1 | 40892010862 |
| MP120HID | MURR | 46.00 | PC | 2-10 | NVO | 40892011043 |
| MP120KH | MURR | 74.00 | PC | 2-6 | NUA | 40892523034 |
| MP120KM | MURR | 131.00 | PC | 2-6 | NUB | 40892527513 |
| MP120T | MURR | 35.00 | PC | 2-10 | NVO | 40892011104 |
| MP125 | MURR | 35.00 | PC | 2-6 | NU9 | 40892518900 |
| MP125GF | MURR | 270.00 | PC | 2-9 | NQP | 40892522242 |
| MP125KH | MURR | 74.00 | PC | 2-6 | NUA | 40892010534 |
| MP125KM | MURR | 131.00 | PC | 2-6 | NUB | 40892010565 |
| MP130 | MURR | 35.00 | PC | 2-6 | NU9 | 40892518917 |
| MP130EG | MURR | 492.00 | PC | 2-9 | NQ1 | 40892008333 |
| MP130EGH | MURR | 808.00 | PC | 2-9 | NQK | 40892010947 |
| MP130GF | MURR | 270.00 | PC | 2-9 | NQP | 40892522259 |
| MP130GFH | MURR | 545.00 | PC | 2-9 | NR1 | 40892010879 |
| MP130HID | MURR | 46.00 | PC | 2-10 | NVO | 40892011050 |
| MP130KH | MURR | 80.00 | PC | 2-6 | NUA | 40892523041 |
| MP130KM | MURR | 153.00 | PC | 2-6 | NUA | 40892010572 |
| MP135 | MURR | 35.00 | PC | 2-6 | NU9 | 40892010473 |
| MP135KH | MURR | 80.00 | PC | 2-6 | NUA | 40892010541 |
| MP135KM | MURR | 153.00 | PC | 2-6 | NUB | 40892010589 |

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| MP140 | MURR | 35.00 | PC | 2-6 | NU9 | 40892518924 |
| MP140KH | MURR | 80.00 | PC | 2-6 | NUA | 40892523058 |
| MP140KM | MURR | 153.00 | PC | 2-6 | NUB | 40892010596 |
| MP145 | MURR | 35.00 | PC | 2-6 | NU9 | 40892010480 |
| MP145KH | MURR | 80.00 | PC | 2-6 | NUA | 40892010558 |
| MP145KM | MURR | 153.00 | PC | 2-6 | NUB | 40892010602 |
| MP150 | MURR | 35.00 | PC | 2-6 | NU9 | 40892519006 |
| MP150KH | MURR | 80.00 | PC | 2-6 | NUA | 40892523065 |
| MP150KM | MURR | 153.00 | PC | 2-6 | NUB | 40892010619 |
| MP1515 | MURR | 73.00 | PC | 2-7 | NV1 | 40892280609 |
| MP1515N | MURR | 93.00 | PC | 2-7 | NV1 | 40892280630 |
| MP1520 | MURR | 73.00 | PC | 2-7 | NV1 | 40892521993 |
| MP1520N | MURR | 93.00 | PC | 2-7 | NV1 | 40892012026 |
| MP160 | MURR | 35.00 | PC | 2-6 | NU9 | 40892010497 |
| MP160KH | MURR | 80.00 | PC | 2-6 | NUA | 40892010510 |
| MP160KM | MURR | 153.00 | PC | 2-6 | NUB | 40892010626 |
| MP170 | MURR | 73.00 | PC | 2-6 | NU9 | 40892010503 |
| MP170KH | MURR | 104.00 | PC | 2-6 | NUA | 40892010527 |
| MP170KM | MURR | 192.00 | PC | 2-6 | NUB | 40892010633 |
| MP2020 | MURR | 73.00 | PC | 2-7 | NV1 | 40892281101 |
| MP2020N | MURR | 93.00 | PC | 2-7 | NV1 | 40892281132 |
| MP2030 | MURR | 73.00 | PC | 2-7 | NV1 | 40892521870 |
| MP2030N | MURR | 93.00 | PC | 2-7 | NV1 | 40892013528 |
| MP2100 | MURR | 217.00 | PC | 2-6 | NUF | 40892507553 |
| MP2100KH | MURR | 347.00 | PC | 2-6 | NUG | 40892507560 |
| MP2100KM | MURR | 728.00 | PC | 2-6 | NUH | 40892527520 |
| MP2110 | MURR | 419.00 | PC | 2-6 | NUF | 40892281163 |
| MP2110KH | MURR | 1152.00 | PC | 2-6 | NUG | 40892010671 |
| MP2110KM | MURR | 2444.00 | PC | 2-6 | NUH | 40892010732 |
| MP2125 | MURR | 419.00 | PC | 2-6 | NUF | 40892281194 |
| MP2125KH | MURR | 1152.00 | PC | 2-6 | NUG | 40892507584 |
| MP2125KM | MURR | 2444.00 | PC | 2-6 | NUH | 40892528718 |
| MP215 | MURR | 75.00 | PC | 2-6 | NUC | 40892518931 |
| MP21515 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521887 |
| MP21515CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001259 |
| MP215AF | MURR | 463.00 | PC | 2-8 | NQ0 | 40892010817 |
| MP215AFH | MURR | 698.00 | PC | 2-8 | NQ2 | 40892010848 |
| MP215EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892008265 |
| MP215EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892010978 |
| MP215GF | MURR | 483.00 | PC | 2-9 | NRO | 40892529951 |
| MP215GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892010886 |
| MP215HID | MURR | 92.00 | PC | 2-10 | NV0 | 40892011067 |
| MP215KH | MURR | 158.00 | PC | 2-6 | NUD | 40892523072 |
| MP215KM | MURR | 385.00 | PC | 2-6 | NUE | 40892010688 |
| MP215SN | MURR | 105.00 | PC | 2-10 | NV0 | 40892528053 |
| MP215VH | MURR | 88.00 | PC | 2-10 | NV0 | 40892528060 |
| MP220 | MURR | 75.00 | PC | 2-6 | NUC | 40892518948 |
| MP22015 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521900 |
| MP22020 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521917 |
| MP22020CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001266 |
| MP220230CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001273 |
| MP220240CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001297 |
| MP220AF | MURR | 463.00 | PC | 2-8 | NQ0 | 40892010824 |
| MP220AFH | MURR | 698.00 | PC | 2-8 | NQ2 | 40892010831 |
| MP220EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892008272 |
| MP220EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892010985 |
| MP220GF | MURR | 483.00 | PC | 2-9 | NRO | 40892529968 |
| MP220GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892010893 |
| MP220HID | MURR | 92.00 | PC | 2-10 | NV0 | 40892011081 |
| MP220KH | MURR | 158.00 | PC | 2-6 | NUD | 40892523089 |
| MP220KM | MURR | 385.00 | PC | 2-6 | NUE | 40892010695 |
| MP220SN | MURR | 105.00 | PC | 2-10 | NV0 | 40892528077 |
| MP220WH | MURR | 88.00 | PC | 2-10 | NV0 | 40892528084 |
| MP225 | MURR | 75.00 | PC | 2-6 | NUC | 40892518955 |
| MP22515 | MURR | 141.00 | PC | 2-7 | NV2 | 40892528862 |
| MP22520 | MURR | 141.00 | PC | 2-7 | NV2 | 40892528862 |
| MP225KH | MURR | 158.00 | PC | 2-6 | NUD | 40892010640 |
| MP225KM | MURR | 385.00 | PC | 2-6 | NUE | 40892010701 |
| MP230 | MURR | 75.00 | PC | 2-6 | NUC | 40892518962 |
| MP23015 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521924 |
| MP23020 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521931 |
| MP230230CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001280 |
| MP230240CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892001303 |
| MP230EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892008289 |
| MP230EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892010992 |
| MP230GF | MURR | 483.00 | PC | 2-9 | NRO | 40892530001 |
| MP230GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892010909 |
| MP230HID | MURR | 92.00 | PC | 2-10 | NV0 | 40892011074 |
| MP230KH | MURR | 158.00 | PC | 2-6 | NUD | 40892523096 |
| MP230KM | MURR | 385.00 | PC | 2-6 | NUE | 40892527537 |

| Catalog Number | Product Category | List Price | Unit of Measure | 2008-2009 Murray Pg. No. | Item Class (MG3) | UPC Code |
|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| MP230NA | MURR | 76.00 | PC | 2-10 | NV0 | 40892013511 |
| MP230SN | MURR | 105.00 | PC | 2-10 | NV0 | 40892528091 |
| MP230WH | MURR | 88.00 | PC | 2-10 | NV0 | 40892528107 |
| MP235 | MURR | 75.00 | PC | 2-6 | NUC | 40892519396 |
| MP23515 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521955 |
| MP23520 | MURR | 141.00 | PC | 2-7 | NV2 | 40892010657 |
| MP235KH | MURR | 158.00 | PC | 2-6 | NUD | 40892010718 |
| MP235KM | MURR | 385.00 | PC | 2-6 | NUE | 40892518979 |
| MP240 | MURR | 75.00 | PC | 2-6 | NUC | 40892521948 |
| MP24015 | MURR | 141.00 | PC | 2-7 | NV2 | 40892521955 |
| MP24020 | MURR | 141.00 | PC | 2-7 | NV2 | 40892001310 |
| MP240240CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892008296 |
| MP240EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892011005 |
| MP240EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892529975 |
| MP240GF | MURR | 483.00 | PC | 2-9 | NRO | 40892010916 |
| MP240GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892523102 |
| MP240KH | MURR | 158.00 | PC | 2-6 | NUD | 40892527544 |
| MP240KM | MURR | 385.00 | PC | 2-6 | NUE | 40892519402 |
| MP245 | MURR | 75.00 | PC | 2-6 | NUC | 40892010664 |
| MP24515 | MURR | 141.00 | PC | 2-7 | NV2 | 40892010725 |
| MP24520 | MURR | 141.00 | PC | 2-7 | NV2 | 40892518986 |
| MP245KH | MURR | 158.00 | PC | 2-6 | NUD | 40892521962 |
| MP245KM | MURR | 385.00 | PC | 2-6 | NUE | 40892521979 |
| MP250 | MURR | 75.00 | PC | 2-6 | NUC | 40892001327 |
| MP25015 | MURR | 141.00 | PC | 2-7 | NV2 | 40892008302 |
| MP25020 | MURR | 141.00 | PC | 2-7 | NV2 | 40892011012 |
| MP250230CT2 | MURR | 147.00 | PC | 2-7 | NV3 | 40892529982 |
| MP250EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892010923 |
| MP250EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892523119 |
| MP250GF | MURR | 483.00 | PC | 2-9 | NRO | 40892527551 |
| MP250GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892518993 |
| MP250KH | MURR | 158.00 | PC | 2-6 | NUD | 40892008319 |
| MP250KM | MURR | 385.00 | PC | 2-6 | NUE | 40892011029 |
| MP280 | MURR | 75.00 | PC | 2-6 | NUC | 40892529999 |
| MP280EG | MURR | 651.00 | PC | 2-9 | NQJ | 40892010930 |
| MP280EGH | MURR | 1074.00 | PC | 2-9 | NQL | 40892507713 |
| MP280GF | MURR | 483.00 | PC | 2-9 | NRO | 40892507737 |
| MP280GFH | MURR | 717.00 | PC | 2-9 | NR2 | 40892507737 |
| MP260KH | MURR | 158.00 | PC | 2-6 | NUD | 40892527575 |
| MP260KM | MURR | 385.00 | PC | 2-6 | NUE | 40892527568 |
| MP260NA | MURR | 76.00 | PC | 2-10 | NV0 | 40892519266 |
| MP270 | MURR | 152.00 | PC | 2-6 | NUF | 40892279801 |
| MP270KH | MURR | 249.00 | PC | 2-6 | NUG | 40892507737 |
| MP270KM | MURR | 611.00 | PC | 2-6 | NUH | 40892527575 |
| MP280 | MURR | 217.00 | PC | 2-6 | NUF | 40892279900 |
| MP280KH | MURR | 347.00 | PC | 2-6 | NUG | 783643436336 |
| MP290 | MURR | 217.00 | PC | 2-6 | NUF | 40892280005 |
| MP290KH | MURR | 347.00 | PC | 2-6 | NUG | 40892507751 |
| MP290KM | MURR | 728.00 | PC | 2-6 | NUH | 40892527582 |
| MP3015 | MURR | 73.00 | PC | 2-7 | NV1 | 40892012002 |
| MP3015N | MURR | 93.00 | PC | 2-7 | NV1 | 40892013535 |
| MP3030 | MURR | 73.00 | PC | 2-7 | NV1 | 40892507768 |
| MP3030N | MURR | 93.00 | PC | 2-7 | NV1 | 40892012033 |
| MP3100 | MURR | 380.00 | PC | 2-6 | NV5 | 40892237603 |
| MP3100KH | MURR | 576.00 | PC | 2-6 | NV6 | 40892507775 |
| MP3100KM | MURR | 774.00 | PC | 2-6 | NV7 | 40892527599 |
| MP315 | MURR | 268.00 | PC | 2-6 | NV5 | 40892237658 |
| MP315KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892523126 |
| MP315KM | MURR | 624.00 | PC | 2-6 | NV7 | 40892010770 |
| MP315SN | MURR | 155.00 | PC | 2-10 | NV9 | 40892528114 |
| MP320 | MURR | 268.00 | PC | 2-6 | NV5 | 40892237801 |
| MP320KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892523133 |
| MP320KM | MURR | 624.00 | PC | 2-6 | NV7 | 40892010763 |
| MP320SN | MURR | 155.00 | PC | 2-10 | NV9 | 40892528121 |
| MP325 | MURR | 268.00 | PC | 2-6 | NV5 | 783643436343 |
| MP325KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892010756 |
| MP330 | MURR | 268.00 | PC | 2-6 | NV5 | 40892238006 |
| MP330KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892523140 |
| MP330KM | MURR | 624.00 | PC | 2-6 | NV7 | 40892530872 |
| MP330SN | MURR | 163.00 | PC | 2-10 | NV9 | 40892528138 |
| MP335 | MURR | 268.00 | PC | 2-6 | NV5 | 783643426337 |
| MP340 | MURR | 268.00 | PC | 2-6 | NV5 | 40892238204 |
| MP340KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892523157 |
| MP340KM | MURR | 624.00 | PC | 2-6 | NV7 | 40892530889 |
| MP345 | MURR | 268.00 | PC | 2-6 | NV5 | 40892003741 |
| MP350 | MURR | 268.00 | PC | 2-6 | NV5 | 40892238303 |
| MP350KH | MURR | 404.00 | PC | 2-6 | NV6 | 40892523164 |
| MP350KM | MURR | 624.00 | PC | 2-6 | NV7 | 40892530896 |
| MP360 | MURR | 268.00 | PC | 2-6 | NV5 | 40892238457 |
| MP360KH | MURR | 516.00 | PC | 2-6 | NV6 | 40892507782 |

9 PRODUCT INDEX

Prices and information subject to change without notice.

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| Catalog Number | Product Category | List Price | Unit of Measure | 2008-2009 Murray Pg. No. | Item Class (MG3) | UPC Code | Catalog Number | Product Category | List Price | Unit of Measure | 2008-2009 Murray Pg. No. | Item Class (MG3) | UPC Code |
|----------------|------------------|------------|-----------------|--------------------------|------------------|-------------|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| MP360KM | MURR | 666.00 | PC | 2-6 | NV7 | 40892527605 | MQJ2150KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892526479 |
| MP370 | MURR | 331.00 | PC | 2-6 | NV5 | 40892238556 | MQJ2175 | MCCB | 588.00 | PC | 2-14 | NGN | 40892524925 |
| MP370KH | MURR | 516.00 | PC | 2-6 | NV6 | 40892507799 | MQJ2175KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892526486 |
| MP370KM | MURR | 666.00 | PC | 2-6 | NV7 | 40892527612 | MQJ2175KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892526493 |
| MP380 | MURR | 380.00 | PC | 2-6 | NV5 | 40892507805 | MQJ2200 | MCCB | 588.00 | PC | 2-14 | NGN | 40892524956 |
| MP380KH | MURR | 576.00 | PC | 2-6 | NV6 | 40892010787 | MQJ2200KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892526509 |
| MP380KM | MURR | 774.00 | PC | 2-6 | NV7 | 40892010794 | MQJ2200KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892526516 |
| MP390 | MURR | 380.00 | PC | 2-6 | NV5 | 40892238709 | MQJ2225 | MCCB | 588.00 | PC | 2-14 | NGN | 40892524987 |
| MP390KH | MURR | 576.00 | PC | 2-6 | NV6 | 40892507812 | MQJ2225KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892526523 |
| MP390KM | MURR | 774.00 | PC | 2-6 | NV7 | 40892527629 | MQJ225KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892526530 |
| MPD2150 | MURR | 457.00 | PC | 2-13 | NR8 | 40892006421 | MQJ260 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530926 |
| MPD2150KH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006438 | MQJ260KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892530988 |
| MPD2150KM | MURR | 2444.00 | PC | 2-13 | NRA | 40892008005 | MQJ260KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531046 |
| MPD2150R | MURR | 457.00 | PC | 2-13 | NR8 | 40892006469 | MQJ270 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530933 |
| MPD2150RH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006490 | MQJ270KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892530995 |
| MPD2150RM | MURR | 2444.00 | PC | 2-13 | NRA | 40892007923 | MQJ270KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531053 |
| MPD2175 | MURR | 457.00 | PC | 2-13 | NR8 | 40892006414 | MQJ280 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530940 |
| MPD2175KH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006445 | MQJ280KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892531008 |
| MPD2175KM | MURR | 2444.00 | PC | 2-13 | NRA | 40892007992 | MQJ280KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531060 |
| MPD2175R | MURR | 457.00 | PC | 2-13 | NR8 | 40892006476 | MQJ290 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530957 |
| MPD2175RH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006506 | MQJ290KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892531015 |
| MPD2175RM | MURR | 2444.00 | PC | 2-13 | NRA | 40892007930 | MQJ290KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531077 |
| MPD2200 | MURR | 457.00 | PC | 2-13 | NR8 | 40892006407 | MQJ3100 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531145 |
| MPD2200KH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006452 | MQJ3100KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531206 |
| MPD2200KM | MURR | 2444.00 | PC | 2-13 | NRA | 40892007985 | MQJ3100KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531268 |
| MPD2200R | MURR | 457.00 | PC | 2-13 | NR8 | 40892006483 | MQJ3110 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531152 |
| MPD2200RH | MURR | 557.00 | PC | 2-13 | NR9 | 40892006513 | MQJ3110KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531213 |
| MPD2200RM | MURR | 2444.00 | PC | 2-13 | NRA | 40892007947 | MQJ3110KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531275 |
| MPH2100 | MURR | 350.00 | PC | 2-6 | NV0 | 40892010749 | MQJ3125 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892525014 |
| MPH215 | MURR | 217.00 | PC | 2-6 | NV0 | 40892530018 | MQJ3125KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892526547 |
| MPH220 | MURR | 217.00 | PC | 2-6 | NV0 | 40892507447 | MQJ3125KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892526554 |
| MPH230 | MURR | 217.00 | PC | 2-6 | NV0 | 40892507454 | MQJ3150 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892525045 |
| MPH240 | MURR | 217.00 | PC | 2-6 | NV0 | 40892507461 | MQJ3150KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892526561 |
| MPH250 | MURR | 217.00 | PC | 2-6 | NV0 | 40892507478 | MQJ3150KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892526578 |
| MPH260 | MURR | 217.00 | PC | 2-6 | NV0 | 40892507485 | MQJ3175 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892525076 |
| MPH270 | MURR | 251.00 | PC | 2-6 | NV0 | 40892530025 | MQJ3175KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892526585 |
| MPP2100KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892529425 | MQJ3175KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892526592 |
| MPP2125 | MURR | 426.00 | PC | 2-13 | NRG | 40892531558 | MQJ3200 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892525106 |
| MPP2125KH | MURR | 1151.00 | PC | 2-13 | NRH | 40892000092 | MQJ3200KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892526608 |
| MPP2125KM | MURR | 2444.00 | PC | 2-13 | NRJ | 40892529432 | MQJ3200KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892526615 |
| MPP2125KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892529449 | MQJ3225 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892525137 |
| MPP2150 | MURR | 472.00 | PC | 2-13 | NRG | 40892528725 | MQJ3225KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892526622 |
| MPP2150KH | MURR | 1212.00 | PC | 2-13 | NRH | 40892528732 | MQJ3225KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892526639 |
| MPP2150KM | MURR | 2444.00 | PC | 2-13 | NRJ | 40892528749 | MQJ360 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531107 |
| MPP2150KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892529456 | MQJ360KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531169 |
| MPP2175 | MURR | 472.00 | PC | 2-13 | NRG | 40892529463 | MQJ360KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531220 |
| MPP2175KH | MURR | 1212.00 | PC | 2-13 | NRH | 40892529470 | MQJ370 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531114 |
| MPP2175KM | MURR | 2444.00 | PC | 2-13 | NRJ | 40892529487 | MQJ370KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531176 |
| MPP2175KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892011135 | MQJ370KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531237 |
| MPP2200 | MURR | 472.00 | PC | 2-13 | NRG | 40892528664 | MQJ380 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531121 |
| MPP2200KH | MURR | 1212.00 | PC | 2-13 | NRH | 40892528688 | MQJ380KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531183 |
| MPP2200KM | MURR | 2444.00 | PC | 2-13 | NRJ | 40892528671 | MQJ380KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531244 |
| MPP2200KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892529494 | MQJ390 | MCCB | 1557.00 | PC | 2-14 | NGN | 40892531138 |
| MPP2225 | MURR | 342.00 | PC | 2-13 | NRH | 40892013658 | MQJ390KH | MCCB | 2169.00 | PC | 2-14 | NGN | 40892531190 |
| MPP2225KH | MURR | 1212.00 | PC | 2-13 | NRH | 40892011111 | MQJ390KL | MCCB | 2755.00 | PC | 2-14 | NGN | 40892531251 |
| MPP2225KM | MURR | 2444.00 | PC | 2-13 | NRJ | 40892011128 | MS14TB | | 578.00 | | 3-10 | | |
| MPP2225KP | MURR | 2987.00 | PC | 2-13 | NRJ | 40892011142 | MS15TB | | 763.00 | | 3-10 | | |
| MQ115 | MURR | 35.00 | PC | 2-11 | NPA | 40892528145 | MS17TB | | 828.00 | | 3-10 | | |
| MQ120 | MURR | 35.00 | PC | 2-11 | NPA | 40892528152 | MS24TB | | 1078.00 | | 3-10 | | |
| MQ130 | MURR | 35.00 | PC | 2-11 | NPA | 40892528169 | MS25TB | | 1266.00 | | 3-10 | | |
| MQ140 | MURR | 35.00 | PC | 2-11 | NPA | 40892528176 | MS27TB | | 1266.00 | | 3-10 | | |
| MQ150 | MURR | 35.00 | PC | 2-11 | NPA | 40892528183 | MS44UBD | RESI | 5023.00 | PC | 3-69 | V4V | 783643266810 |
| MQ160 | MURR | 35.00 | PC | 2-11 | NPA | 40892528190 | MS4UBD | | 2679.00 | | 3-69 | | |
| MQ215 | MURR | 76.00 | PC | 2-11 | NPA | 40892529500 | MS84UBD | RESI | 9336.00 | PC | 3-69 | V4V | 783643266841 |
| MQ220 | MURR | 76.00 | PC | 2-11 | NPA | 40892528206 | MS6UBD | | 5231.00 | | 3-69 | | |
| MQ230 | MURR | 76.00 | PC | 2-11 | NPA | 40892528213 | MS84UBD | RESI | 16254.00 | PC | 3-69 | V4V | 783643266872 |
| MQ240 | MURR | 76.00 | PC | 2-11 | NPA | 40892528220 | MS8UBD | | 8630.00 | | 3-69 | | |
| MQ250 | MURR | 76.00 | PC | 2-11 | NPA | 40892528237 | MSA1515 | MURR | 263.00 | PC | 2-12 | NW2 | 40892530032 |
| MQ260 | MURR | 76.00 | PC | 2-11 | NPA | 40892528244 | MSA2020 | MURR | 263.00 | PC | 2-12 | NW2 | 40892530049 |
| MQJ2100 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530964 | MSA2020TVSS | MURR | 399.00 | PC | 2-12 | NW2 | 783643536159 |
| MQJ2100KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892531022 | NSK400 | RESI | 167.00 | PC | 3-67 | V5X | 783643481138 |
| MQJ2100KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531084 | NSK400 | RESI | 167.00 | PC | 3-67 | V5X | 783643481138 |
| MQJ2110 | MCCB | 588.00 | PC | 2-14 | NGN | 40892530971 | NSK600 | RESI | 220.00 | PC | 3-67 | V5X | 783643481145 |
| MQJ2110KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892531039 | NSK600 | RESI | 220.00 | PC | 3-67 | V5X | 783643481145 |
| MQJ2110KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892531091 | PAKMCVRL | | 58.00 | | 3-68 | | |
| MQJ2125 | MCCB | 588.00 | PC | 2-14 | NGN | 40892524871 | PAKMCVRR | | 58.00 | | 3-68 | | |
| MQJ2125KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892526448 | PLK400 | RESI | 195.00 | PC | 3-67 | V5X | 783643481152 |
| MQJ2125KL | MCCB | 1761.00 | PC | 2-14 | NGN | 40892526455 | PLK600 | RESI | 195.00 | PC | 3-67 | V5X | 783643481152 |
| MQJ2150 | MCCB | 588.00 | PC | 2-14 | NGN | 40892524901 | PLK600 | RESI | 195.00 | PC | 3-67 | V5X | 783643481169 |
| MQJ2150KH | MCCB | 1419.00 | PC | 2-14 | NGN | 40892526462 | PLK600 | RESI | 195.00 | PC | 3-67 | V5X | 783643481169 |

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|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|----------------|------------------|------------|-----------------|--------------------------|------------------|--------------|
| QJ2060 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536447 | RN291PR | MURR | 324.83 | PC | 3-6 | NTC | 40892529654 |
| QJ2060KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536454 | RN301CR | MURR | 455.82 | PC | 3-6 | NTC | 40892520118 |
| QJ2060KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536461 | RN391AR | MURR | 455.82 | PC | 3-6 | NTC | 40892520125 |
| QJ2070 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536478 | RN391PR | MURR | 455.82 | PC | 3-6 | NTC | 40892529661 |
| QJ2070KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536485 | RN401CR | MURR | 590.01 | PC | 3-6 | NTC | 40892520132 |
| QJ2070KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536492 | RN491AR | MURR | 590.01 | PC | 3-6 | NTC | 40892520149 |
| QJ2080 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536508 | RN491PR | MURR | 590.01 | PC | 3-6 | NTC | 40892529647 |
| QJ2080KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536515 | RT121413 | RESI | 749.76 | PC | 3-10 | V4N | 40892523331 |
| QJ2080KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536522 | RT6018A | RESI | 379.00 | PC | 3-10 | NWG | 40892531480 |
| QJ2090 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536539 | RT6019HA | RESI | 476.00 | PC | 3-10 | NWG | 40892531497 |
| QJ2090KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536546 | RT6067A | RESI | 708.00 | PC | 3-10 | NWG | 40892531503 |
| QJ2090KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536553 | RT6067HA | RESI | 830.00 | PC | 3-10 | NWG | 40892538304 |
| QJ2100 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536560 | RTU121814 | RESI | 1403.00 | PC | 3-10 | NWG | 40892531442 |
| QJ2100KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536577 | RTU121815 | RESI | 1415.00 | PC | 3-10 | NWG | 40892531459 |
| QJ2100KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536584 | RTU121818 | RESI | 1419.00 | PC | 3-10 | NWG | 40892531473 |
| QJ2110 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536591 | RTU22015 | RESI | 2334.00 | PC | 3-10 | NWG | 40892531473 |
| QJ2110KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536607 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2110KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536614 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2125 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536621 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2125KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536638 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2125KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536645 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2150 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536652 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2150KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536669 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2150KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536676 | RX022 | RESI | 26.09 | PC | 3-11 | NSG | 40892520309 |
| QJ2175 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536683 | RX031 | RESI | 36.74 | PC | 3-11 | NSG | 40892520323 |
| QJ2175KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536690 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2175KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536706 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2200 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536713 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2200KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536720 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2200KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536737 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2225 | MCCB | 447.00 | PC | 2-14 | NGR | 40892536744 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2225KH | MCCB | 1071.00 | PC | 2-14 | NGR | 40892536751 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ2225KL | MCCB | 1330.00 | PC | 2-14 | NGR | 40892536768 | RX032 | RESI | 36.21 | PC | 3-11 | NSG | 40892520330 |
| QJ3080 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536775 | RX035 | RESI | 44.20 | PC | 3-11 | NSG | 40892520347 |
| QJ3080KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536782 | S35815-2 | RESI | 123.54 | PC | 3-11 | V4N | 783643401662 |
| QJ3080KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536799 | S40405-0BNU | RESI | 448.37 | PC | 3-8 | V2N | 78364336655 |
| QJ3070 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536805 | S40407-01NU | RESI | 532.50 | PC | 3-8 | V2P | 78364336916 |
| QJ3070KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536812 | S42505-02RG | RESI | 463.28 | PC | 3-8 | V2N | 783643240346 |
| QJ3070KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536829 | S47704-01NU | RESI | 647.52 | PC | 3-9 | V2Q | 783643240292 |
| QJ3080 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536836 | S47705-01NU | RESI | 773.19 | PC | 3-9 | V2Q | 783643240308 |
| QJ3080KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536843 | S47707-01NU | RESI | 773.19 | PC | 3-9 | V2R | 783643240315 |
| QJ3080KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536850 | S48104-02 | RESI | 1016.01 | PC | 3-9 | V2Q | 783643336414 |
| QJ3090 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536867 | S48704-82GP | RESI | 719.94 | PC | 3-9 | V2Q | 783643219991 |
| QJ3090KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536874 | S48707-82GP | RESI | 870.11 | PC | 3-9 | V2R | 783643242531 |
| QJ3090KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536881 | S48805-0BNU | RESI | 548.48 | PC | 3-8 | V2N | 783643366770 |
| QJ3100 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536898 | S48807-02NU | RESI | 630.46 | PC | 3-8 | V2P | 783643366947 |
| QJ3100KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536904 | S56427 | RESI | 44.20 | PC | 3-11 | V4M | 783643367692 |
| QJ3100KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536911 | S99623 | RESI | 132.06 | PC | 3-11 | V4N | 783643368033 |
| QJ3110 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536928 | S99685-1 | RESI | 218.00 | PC | 3-11 | V4N | 783643368033 |
| QJ3110KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536935 | S9804-9142 | RESI | 717.81 | PC | 3-8 | V2P | 783643220003 |
| QJ3110KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536942 | S9804-9144 | RESI | 498.42 | PC | 3-9 | V2Q | 783643366800 |
| QJ3125 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536959 | S9804-9145 | RESI | 634.74 | PC | 3-9 | V2R | 783643366831 |
| QJ3125KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536966 | S9804-9146 | RESI | 749.76 | PC | 3-9 | V2Q | 783643366862 |
| QJ3125KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892536973 | S9804-9147 | RESI | 890.34 | PC | 3-9 | V2R | 783643366893 |
| QJ3150 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892536980 | SBJ1 | RESI | 388.00 | PC | 3-67 | V4X | 783643176959 |
| QJ3150KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892536997 | SBJ4 | RESI | 427.00 | PC | 3-67 | V4X | 783643176966 |
| QJ3150KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892537004 | SC150C | MURR | 176.00 | PC | 3-7 | NWF | 40892301403 |
| QJ3175 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892537011 | SC250C | MURR | 351.00 | PC | 3-7 | NWF | 40892301908 |
| QJ3175KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892537027 | SC350C | MURR | 531.00 | PC | 3-7 | NWF | 40892302608 |
| QJ3175KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892537034 | SE750CR | MURR | 221.52 | PC | 3-8 | NQC | 40892306507 |
| QJ3200 | MCCB | 1172.00 | PC | 2-14 | NGR | 40892537048 | SJ102AC | MURR | 91.59 | PC | 3-4 | NX3 | 40892303124 |
| QJ3200KH | MCCB | 1641.00 | PC | 2-14 | NGR | 40892537055 | SJ102AX | MURR | 90.53 | PC | 3-4 | NX3 | 40892303155 |
| QJ3200KL | MCCB | 2082.00 | PC | 2-14 | NGR | 40892537062 | SN102A | MURR | 99.05 | PC | 3-4 | NX3 | 40892305128 |
| QJ3225 | MCCB | 1172.00 | PC | 2-14 | NGR | 783643014718 | SN152C | MURR | 108.63 | PC | 3-4 | NX3 | 40892305227 |
| QJ3225KH | MCCB | 1641.00 | PC | 2-14 | NGR | 783643014725 | SN152CC | MURR | 124.61 | PC | 3-4 | NX3 | 40892305234 |
| QJ3225KL | MCCB | 2082.00 | PC | 2-14 | NGR | 783643014732 | SN152CX | MURR | 108.63 | PC | 3-4 | NX3 | 40892305203 |
| RH173CR | MURR | 459.02 | PC | 3-8 | NQB | 40892294224 | SN205CX | MURR | 426.00 | PC | 3-7 | NTC | 40892012064 |
| RH173CRF | MURR | 463.28 | PC | 3-8 | NQB | 40892519938 | SN211AR | MURR | 324.83 | PC | 3-7 | NTC | 40892520521 |
| RH173CRJ | MURR | 463.28 | PC | 3-8 | NQB | 40892007671 | SN251CR | MURR | 404.70 | PC | 3-7 | NTC | 40892001051 |
| RH173GR | MURR | 581.49 | PC | 3-8 | NQC | 40892294279 | SN305CX | MURR | 609.18 | PC | 3-7 | NTC | 40892012071 |
| RH173GRF | MURR | 594.27 | PC | 3-8 | NQC | 40892519945 | SN311AR | MURR | 455.82 | PC | 3-7 | NTC | 40892520538 |
| RH173GRJ | MURR | 594.27 | PC | 3-8 | NQC | 40892519952 | SN351CR | MURR | 590.01 | PC | 3-7 | NTC | 40892001068 |
| RK178C-LI | MURR | 672.02 | PC | 3-9 | NQD | 40892010466 | SN411AR | MURR | 590.01 | PC | 3-7 | NTC | 40892520545 |
| RK48507 | MURR | 877.56 | PC | 3-9 | NR5 | 40892007916 | SN451CR | MURR | 772.13 | PC | 3-7 | NTC | 40892001075 |
| RK78061 | MURR | 1646.49 | PC | 3-9 | NR6 | 40892007398 | SP2211 | RESI | 1323.00 | PC | 3-43 | V5R | 783643438552 |
| RM291PR | MURR | 337.61 | PC | 3-6 | NTD | 40892007329 | SP2211RJ | RESI | 1429.00 | PC | 3-44 | V5R | 783643439306 |
| RM391PR | MURR | 446.24 | PC | 3-6 | NTD | 40892007312 | SP2211RJB | RESI | 1428.00 | PC | 3-44 | V5R | 783643439184 |
| RM491PR | MURR | 605.99 | PC | 3-6 | NTD | 40892007305 | SP221FK | RESI | 132.00 | PC | 3-43 | V5Y | 783643439535 |
| RN201CR | MURR | 324.83 | PC | 3-6 | NTC | 40892520095 | SP3311 | RESI | 1591.00 | PC | 3-43 | V5R | 783643438729 |
| RN291AR | MURR | 324.83 | PC | 3-6 | NTC | 40892520101 | SP3311RJ | RESI | 1782.00 | PC | 3-44 | V5R | 783643439313 |

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| SP331FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439542 |
| SP4212 | RESI | 1863.00 | PC | 3-43 | V5T | 783643438873 |
| SP4212RJ | RESI | 1997.00 | PC | 3-44 | V5T | 783643439412 |
| SP4212RJB | RESI | 1940.00 | PC | 3-44 | V5T | 783643439252 |
| SP4212RJL | RESI | 3274.00 | PC | 3-50 | V5T | 783643624719 |
| SP422FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439597 |
| SP4312 | RESI | 2755.00 | PC | 3-43 | V5T | 783643438880 |
| SP4312RJ | RESI | 2943.00 | PC | 3-44 | V5T | 783643439429 |
| SP4312RJB | RESI | 2861.00 | PC | 3-44 | V5T | 783643439269 |
| SP4312RJL | RESI | 4911.00 | PC | 3-50 | V5T | 783643624726 |
| SP432FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439603 |
| SP4411 | RESI | 2260.00 | PC | 3-43 | V5R | 783643438736 |
| SP4411RJ | RESI | 2501.00 | PC | 3-44 | V5R | 783643439320 |
| SP4411RJB | RESI | 2501.00 | PC | 3-44 | V5R | 783643439207 |
| SP4412 | RESI | 3612.00 | PC | 3-43 | V5T | 783643438897 |
| SP4412RJ | RESI | 3822.00 | PC | 3-44 | V5T | 783643439436 |
| SP4412RJB | RESI | 3699.00 | PC | 3-44 | V5T | 783643439276 |
| SP4412RJL | RESI | 6548.00 | PC | 3-50 | V5T | 783643624733 |
| SP441FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439559 |
| SP442FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439610 |
| SP4511 | RESI | 2861.00 | PC | 3-43 | V5S | 783643438750 |
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| SP4511RJB | RESI | 3129.00 | PC | 3-44 | V5S | 783643439214 |
| SP4561FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439566 |
| SP4611 | RESI | 3315.00 | PC | 3-43 | V5S | 783643438767 |
| SP4611RJ | RESI | 3666.00 | PC | 3-44 | V5S | 783643439382 |
| SP4611RJB | RESI | 3506.00 | PC | 3-44 | V5S | 783643439221 |
| SP4611 | RESI | 2807.00 | PC | 3-43 | V5V | 783643438781 |
| SP4612 | RESI | 3983.00 | PC | 3-43 | V5W | 783643438903 |
| SP642FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643438404 |
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| SP6511RJ | RESI | 3557.00 | PC | 3-44 | V5V | 783643439399 |
| SP6511RJB | RESI | 3557.00 | PC | 3-44 | V5V | 783643439238 |
| SP6512 | RESI | 4655.00 | PC | 3-43 | V5W | 783643438910 |
| SP6512RJ | RESI | 4789.00 | PC | 3-44 | V5W | 783643439467 |
| SP6512RJB | RESI | 4655.00 | PC | 3-44 | V5W | 783643439283 |
| SP6512RJL | RESI | 8185.00 | PC | 3-50 | V5W | 783643624740 |
| SP6561FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439573 |
| SP6562FK | RESI | 154.00 | PC | 3-43 | V5Y | 783643439627 |
| SP6611 | RESI | 3877.00 | PC | 3-43 | V5V | 783643438804 |
| SP6611RJ | RESI | 4204.00 | PC | 3-44 | V5V | 783643439405 |
| SP6611RJB | RESI | 4040.00 | PC | 3-44 | V5V | 783643439245 |
| SP6612 | RESI | 5460.00 | PC | 3-43 | V5W | 783643438927 |
| SP6612RJ | RESI | 5645.00 | PC | 3-44 | V5W | 783643439474 |
| SP6612RJB | RESI | 5458.00 | PC | 3-44 | V5W | 783643439290 |
| SP6612RJL | RESI | 9652.00 | PC | 3-50 | V5W | 783643624757 |
| SP6612 | RESI | 5991.00 | PC | 3-43 | V5W | 783643518933 |
| SP6612RJ | RESI | 5991.00 | PC | 3-44 | V5W | 783643618794 |
| SRSS | RESI | 19.38 | PC | 3-67 | V4N | 783643198142 |
| SRSS | RESI | 19.38 | PC | 3-67 | V4N | 783643198142 |
| SRSTD | RESI | 17.47 | PC | 3-67 | V4N | 783643176973 |
| SRSTD | RESI | 17.47 | PC | 3-67 | V4N | 783643176973 |
| SRSTD | RESI | 17.47 | PC | 3-67 | V4N | 783643176973 |
| SRSTD | RESI | 17.47 | PC | 3-67 | V4N | 783643176973 |
| SRSW | RESI | 25.03 | PC | 3-67 | V4N | 783643131491 |
| SRSW | RESI | 25.03 | PC | 3-67 | V4N | 783643131491 |
| SRSW | RESI | 25.03 | PC | 3-67 | V4N | 783643131491 |
| SRSW | RESI | 25.03 | PC | 3-67 | V4N | 783643131491 |
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| SS109AR | MURR | 161.88 | PC | 3-5 | NX5 | 40892308945 |
| SS152C | MURR | 178.92 | PC | 3-5 | NX5 | 40892308969 |
| SS152CX | MURR | 140.58 | PC | 3-5 | NX4 | 40892308907 |
| SS251CR | MURR | 438.78 | PC | 3-7 | NTD | 40892013450 |
| SS351CR | MURR | 613.44 | PC | 3-7 | NTD | 40892013467 |
| SS451CR | MURR | 787.04 | PC | 3-7 | NTD | 40892013474 |
| SUAS877-PG | RESI | 264.12 | PC | 3-5 | V88 | 783643334700 |
| SUAS877-PGPG | RESI | 275.84 | PC | 3-5 | V88 | 783643242234 |
| SUAS877-PPZ | RESI | 264.12 | PC | 3-5 | V88 | 783643234109 |
| SUAS877-PPZ | RESI | 264.12 | PC | 3-5 | V88 | 783643234109 |
| SUAS877-PPZA | RESI | 267.32 | PC | 3-5 | V88 | 40892007664 |
| SUAT111-0G | RESI | 104.37 | PC | 3-4 | V85 | 783643234130 |
| SUAT111-0GFG | RESI | 92.66 | PC | 3-4 | V85 | 783643238084 |
| SUAT111-0MXA | RESI | 101.18 | PC | 3-4 | V85 | 783643330894 |
| SUAT111-0PQG | RESI | 95.85 | PC | 3-4 | V85 | 783643331150 |
| SUAT111-0PV | RESI | 93.00 | PC | 3-4 | V85 | 783643234161 |
| SUAT111-0PZA | RESI | 99.05 | PC | 3-4 | V85 | 783643234161 |
| SUAT111-BG | RESI | 140.58 | PC | 3-4 | V85 | 783643234161 |
| SUAT111-BPQG | RESI | 145.91 | PC | 3-4 | V85 | 783643238466 |
| SUAT111-PG | RESI | 99.05 | PC | 3-4 | V85 | 783643238466 |

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| SUAT317-0FP | RESI | 203.42 | PC | 3-5 | V86 | 783643238497 |
| SUAT317-0FP | RESI | 203.42 | PC | 3-5 | V86 | 783643238497 |
| SUAT317-0G | RESI | 146.97 | PC | 3-5 | V86 | 783643234192 |
| SUAT317-0GFG | RESI | 161.88 | PC | 3-5 | V86 | 783643238831 |
| SUAT317-0PGP | RESI | 203.42 | PC | 3-5 | V86 | 783643238824 |
| SUAT317-0POG | RESI | 138.45 | PC | 3-5 | V86 | 783643238886 |
| SUAT317-0PZA | RESI | 138.45 | PC | 3-5 | V86 | 783643242463 |
| SUAT317-DGZ | RESI | 131.00 | PC | 3-5 | V86 | 783643234185 |
| SUAT417-PG | RESI | 103.31 | PC | 3-5 | V87 | 783643242456 |
| SUAT417-PGF | RESI | 000.00 | PC | 3-5 | V87 | 783643242456 |
| SUAT417-XFP | RESI | 203.42 | PC | 3-5 | V87 | 783643242432 |
| SUAT417-XG | RESI | 192.77 | PC | 3-5 | V87 | 783643234123 |
| SUAT417-XGDU | RESI | 204.48 | PC | 3-5 | V87 | 783643230331 |
| SUAT417-XGFG | RESI | 138.45 | PC | 3-5 | V87 | 783643242296 |
| SUAT417-XPGG | RESI | 187.44 | PC | 3-5 | V87 | 783643242227 |
| SUAT517-PDG | RESI | 166.14 | PC | 3-5 | V88 | 783643242401 |
| SUAT618-XGNM | RESI | 320.57 | PC | 3-5 | V88 | 78364333673 |
| SUK1000TA | RESI | 68.00 | PC | 3-44 | V7U | 783643457812 |
| SUK350TA | RESI | 58.00 | PC | 3-44 | V7U | 40892011975 |
| SUK600TA | RESI | 52.00 | PC | 3-44 | V7U | 783643457805 |
| SX087M | MURR | 8.31 | PC | 3-93 | NSH | 40892310009 |
| UBT20 | MURR | 236.00 | PC | 3-92 | NWE | 40892000962 |
| UBT30 | MURR | 356.00 | PC | 3-92 | NWE | 40892000979 |
| UBT40 | MURR | 473.00 | PC | 3-92 | NWE | 40892000986 |
| UBT50 | MURR | 594.00 | PC | 3-92 | NWE | 40892000993 |
| UCP1216 | MURR | 38.50 | PC | 3-93 | NWE | 40892001037 |
| UEW1216 | MURR | 59.00 | PC | 3-93 | NWE | 40892001044 |
| UK1000TA | RESI | 68.00 | PC | 3-49 | NWC | 40892324938 |
| UK350TA | RESI | 59.00 | PC | 3-49 | NWC | 40892521184 |
| UK600TA | RESI | 53.00 | PC | 3-49 | NWC | 40892311105 |
| ULK1350 | MURR | 115.00 | PC | 3-93 | NWE | 40892001129 |
| ULK1500 | MURR | 140.00 | PC | 3-93 | NWE | 40892001112 |
| ULK2500 | MURR | 154.00 | PC | 3-93 | NWE | 40892001136 |
| ULT10SP | MURR | 69.00 | PC | 3-93 | NWE | 40892001143 |
| ULT20 | MURR | 121.00 | PC | 3-92 | NWE | 40892000924 |
| ULT30 | MURR | 183.00 | PC | 3-92 | NWE | 40892000931 |
| ULT40 | MURR | 241.00 | PC | 3-92 | NWE | 40892000948 |
| ULT50 | MURR | 297.00 | PC | 3-92 | NWE | 40892000955 |
| UMBCVR | MURR | 49.00 | PC | 3-93 | NWE | 40892001105 |
| UMCVR | MURR | 49.00 | PC | 3-93 | NWE | 40892001099 |
| UPB12 | MURR | 98.00 | PC | 3-92 | NWE | 40892001020 |
| UPB3 | MURR | 52.00 | PC | 3-92 | NWE | 40892001006 |
| UPB6 | MURR | 59.00 | PC | 3-92 | NWE | 40892001013 |
| UVS210 | RESI | 358.00 | PC | 3-91 | V7W | 40892000856 |
| UVS310 | RESI | 653.00 | PC | 3-91 | V7W | 40892000863 |
| UVS311B | RESI | 507.00 | PC | 3-91 | V7W | 40892000870 |
| UVS410 | RESI | 948.00 | PC | 3-91 | V7W | 40892000887 |
| UVS411B | RESI | 803.00 | PC | 3-91 | V7W | 40892000894 |
| UVS510 | RESI | 1248.00 | PC | 3-91 | V7W | 40892000900 |
| UVS511B | RESI | 1099.00 | PC | 3-91 | V7W | 40892000917 |
| UX001WL | MURR | 25.00 | PC | 3-39 | NS9 | 40892332445 |
| UX001WL | MURR | 25.00 | PC | 3-39 | NS9 | 40892332445 |
| UX005B | RESI | 110.00 | PC | 3-39 | NWC | 40892332551 |
| W1MM1225U | RESI | 3176.00 | PC | 3-62 | V50 | 783643494107 |
| W1MM1225USS | RESI | 1563.00 | PC | 3-66 | V52 | 783643542686 |
| W1MM1400 | RESI | 8901.00 | PC | 3-62 | V51 | 783643240735 |
| W1MM1400B | RESI | 10681.00 | PC | 3-65 | V50 | 783643170148 |
| W1MM2225U | RESI | 6535.00 | PC | 3-62 | V50 | 783643494985 |
| W1MM2225USS | RESI | 3006.00 | PC | 3-66 | V52 | 783643542693 |
| W1MM2400 | RESI | 13547.00 | PC | 3-62 | V51 | 783643955844 |
| W1MM3225U | RESI | 9792.00 | PC | 3-62 | V50 | 783643494992 |
| W1MM3225USS | RESI | 4489.00 | PC | 3-66 | V52 | 783643542709 |
| W1MM4225U | RESI | 13174.00 | PC | 3-62 | V50 | 783643495005 |
| W2MM1225U | RESI | 3255.00 | PC | 3-63 | V55 | 783643495029 |
| W2MM1225USS | RESI | 1714.00 | PC | 3-66 | V52 | 783643542716 |
| W2MM1400AB | RESI | 8901.00 | PC | 3-63 | V56 | 783643399969 |
| W2MM1400BAB | RESI | 10681.00 | PC | 3-65 | V56 | 783643399976 |
| W2MM2400AB | RESI | 14902.00 | PC | 3-63 | V56 | 783643399976 |
| W2MM2A225U | RESI | 6486.00 | PC | 3-63 | V55 | 783643495142 |
| W2MM2A225USS | RESI | 3157.00 | PC | 3-66 | V52 | 783643542723 |
| W2MM2B225U | RESI | 6486.00 | PC | 3-63 | V55 | 783643495159 |
| W2MM2B225USS | RESI | 3157.00 | PC | 3-66 | V52 | 783643542730 |
| W2MM2CA225U | RESI | 6486.00 | PC | 3-63 | V55 | 783643495166 |
| W2MM2CA225USS | RESI | 3157.00 | PC | 3-66 | V52 | 783643552586 |
| W2MM3225U | RESI | 9608.00 | PC | 3-63 | V55 | 783643495180 |
| W2MM3225USS | RESI | 4639.00 | PC | 3-66 | V52 | 783643552593 |
| W2MM4A225U | RESI | 12781.00 | PC | 3-63 | V55 | 783643495197 |
| W2MM4B225U | RESI | 12781.00 | PC | 3-63 | V55 | 783643495203 |
| W2MM4CA225U | RESI | 12781.00 | PC | 3-63 | V55 | 783643495210 |
| W3MM1 | RESI | 3570.00 | PC | 3-64 | V57 | 783643196605 |

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| W3MM1200U | RESI | 3570.00 | PC | 3-64 | V57 | 783643495227 |
| W3MM1225USS | RESI | 1895.00 | PC | 3-66 | V52 | 783643552609 |
| W3MM1400 | RESI | 8901.00 | PC | 3-64 | V58 | 783643240766 |
| W3MM1400B | RESI | 10681.00 | PC | 3-65 | V58 | 783643083998 |
| W3MM2 | RESI | 6981.00 | PC | 3-64 | V57 | 783643196612 |
| W3MM2200U | RESI | 6981.00 | PC | 3-64 | V57 | 783643495326 |
| W3MM2225USS | RESI | 3561.00 | PC | 3-66 | V52 | 783643552616 |
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| W3MM3 | RESI | 10310.00 | PC | 3-64 | V57 | 783643495333 |
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| W3MM3225USS | RESI | 5271.00 | PC | 3-66 | V52 | 783643552623 |
| W3MM4 | RESI | 13783.00 | PC | 3-64 | V57 | 783643196636 |
| W3MM4200U | RESI | 13783.00 | PC | 3-64 | V57 | 783643495340 |
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| WF2030 | RESI | 154.00 | PC | 1-8 | V26 | 783643362130 |
| WF2030GFCI | RESI | 500.00 | PC | 1-8 | V26 | 783643496545 |
| WF2030PL | RESI | 235.00 | PC | 1-8 | V26 | 783643503182 |
| WF2060 | RESI | 154.00 | PC | 1-8 | V26 | 783643362161 |
| WF2060GFCI | RESI | 500.00 | PC | 1-8 | V26 | 783643496538 |
| WF2060PL | RESI | 235.00 | PC | 1-8 | V26 | 783643503175 |
| WMC10 | RESI | 19469.00 | PC | 3-56 | V4U | 783643131118 |
| WMC104 | RESI | 22072.00 | PC | 3-56 | V4U | 783643198340 |
| WMC104BF | RESI | 22072.00 | PC | 3-56 | V4U | 783643369887 |
| WMC10BF | RESI | 19469.00 | PC | 3-56 | V4U | 783643101319 |
| WMC12 | RESI | 27691.00 | PC | 3-56 | V4U | 783643131125 |
| WMC124 | RESI | 31012.00 | PC | 3-56 | V4U | 783643196537 |
| WMC124BF | RESI | 31012.00 | PC | 3-56 | V4U | 783643107298 |
| WMC12BF | RESI | 27691.00 | PC | 3-56 | V4U | 783643101845 |
| WMC14 | RESI | 37449.00 | PC | 3-56 | V4U | 783643400207 |
| WMC144 | RESI | 45946.00 | PC | 3-56 | V4U | 783643434134 |
| WMC144BF | RESI | 45946.00 | PC | 3-56 | V4U | 783643426580 |
| WMC14BF | RESI | 37449.00 | PC | 3-56 | V4U | 783643400191 |
| WMC16 | RESI | 37449.00 | PC | 3-56 | V4U | 783643131132 |
| WMC164 | RESI | 45946.00 | PC | 3-56 | V4U | 783643196544 |
| WMC164BF | RESI | 45946.00 | PC | 3-56 | V4U | 783643100084 |
| WMC16BF | RESI | 37449.00 | PC | 3-56 | V4U | 783643101821 |
| WMC4 | RESI | 7471.00 | PC | 3-56 | V4U | 783643131088 |
| WMC44 | RESI | 8552.00 | PC | 3-56 | V4U | 783643131187 |
| WMC44BF | RESI | 8552.00 | PC | 3-56 | V4U | 783643376045 |
| WMC4BF | RESI | 7471.00 | PC | 3-56 | V4U | 783643399143 |
| WMC6 | RESI | 11332.00 | PC | 3-56 | V4U | 783643131095 |
| WMC64 | RESI | 13468.00 | PC | 3-56 | V4U | 783643131194 |
| WMC64BF | RESI | 13468.00 | PC | 3-56 | V4U | 783643101852 |
| WMC6BF | RESI | 11332.00 | PC | 3-56 | V4U | 783643101838 |
| WMC7 | RESI | 14266.00 | PC | 3-56 | V4U | 783643400177 |
| WMC74 | RESI | 17567.00 | PC | 3-56 | V4U | 783643426351 |
| WMC74BF | RESI | 17567.00 | PC | 3-56 | V4U | 783643436305 |
| WMC7BF | RESI | 14266.00 | PC | 3-56 | V4U | 783643436305 |
| WMC8 | RESI | 14266.00 | PC | 3-56 | V4U | 783643131101 |
| WMC84 | RESI | 17567.00 | PC | 3-56 | V4U | 783643131200 |
| WMC84BF | RESI | 17567.00 | PC | 3-56 | V4U | 783643100398 |
| WMC8BF | RESI | 14266.00 | PC | 3-56 | V4U | 783643101357 |
| WMEP | RESI | 45.50 | PC | 3-67 | V4X | 783643070745 |
| WMEX1U | RESI | 930.00 | PC | 3-67 | V4X | 783643201491 |
| WMEX4U | RESI | 1159.00 | PC | 3-67 | V4X | 783643201507 |
| WMM2200U | RESI | 3362.00 | PC | 3-59 | V4Z | 783643259485 |
| WMM2200UR | RESI | 3417.00 | PC | 3-60 | V4Z | 783643260061 |
| WMM22URNJ | RESI | 1715.00 | PC | 3-60 | VLJ | 783643453586 |
| WMM24AB200U | RESI | 3417.00 | PC | 3-59 | V54 | 783643259515 |
| WMM24AB2URNJ | RESI | 3582.00 | PC | 3-60 | VLJ | 783643453593 |
| WMM2U | RESI | 1509.00 | PC | 3-59 | V4Y | 783643259324 |
| WMM2UR | RESI | 1589.00 | PC | 3-60 | V4Y | 783643259584 |
| WMM2URNJ | RESI | 1640.00 | PC | 3-60 | V4Y | 783643259591 |
| WMM3200U | RESI | 3599.00 | PC | 3-59 | V4Z | 783643259492 |
| WMM3200UR | RESI | 3675.00 | PC | 3-60 | V4Z | 783643260092 |
| WMM32URNJ | RESI | 3806.00 | PC | 3-60 | V4Z | 783643260108 |
| WMM34200U | RESI | 3806.00 | PC | 3-59 | V54 | 783643259545 |
| WMM34200UR | RESI | 3886.00 | PC | 3-60 | V54 | 783643260245 |
| WMM342URNJ | RESI | 3962.00 | PC | 3-60 | V54 | 783643260252 |
| WMM34U | RESI | 1798.00 | PC | 3-59 | V53 | 783643259409 |
| WMM34UR | RESI | 1875.00 | PC | 3-60 | V53 | 783643259829 |
| WMM34URNJ | RESI | 1960.00 | PC | 3-60 | V53 | 783643259836 |
| WMM3U | RESI | 1690.00 | PC | 3-59 | V4Y | 783643259331 |
| WMM3UR | RESI | 1786.00 | PC | 3-60 | V4Y | 783643259614 |
| WMM3URNJ | RESI | 1852.00 | PC | 3-60 | V4Y | 783643259621 |
| WMM4200U | RESI | 4960.00 | PC | 3-59 | V4Z | 783643259508 |
| WMM4200UR | RESI | 5093.00 | PC | 3-60 | V4Z | 783643260122 |
| WMM42URNJ | RESI | 5195.00 | PC | 3-60 | V4Z | 783643260139 |
| WMM44AB200U | RESI | 4852.00 | PC | 3-59 | V54 | 783643259553 |
| WMM44AB200UR | RESI | 4960.00 | PC | 3-60 | V54 | 783643260276 |

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| WMM44ABU | RESI | 2401.00 | PC | 3-59 | V53 | 783643259416 |
| WMM44ABUR | RESI | 2533.00 | PC | 3-60 | V53 | 783643259850 |
| WMM44ABURNJ | RESI | 2647.00 | PC | 3-60 | V53 | 783643259867 |
| WMM44AB200U | RESI | 4852.00 | PC | 3-59 | V54 | 783643259560 |
| WMM44AB200UR | RESI | 4960.00 | PC | 3-60 | V54 | 783643260306 |
| WMM44AB2URNJ | RESI | 5093.00 | PC | 3-60 | V54 | 783643260313 |
| WMM44BCU | RESI | 2401.00 | PC | 3-59 | V53 | 783643259423 |
| WMM44BCUR | RESI | 2533.00 | PC | 3-60 | V53 | 783643259881 |
| WMM44BCURNJ | RESI | 2647.00 | PC | 3-60 | V53 | 783643259898 |
| WMM44CA200U | RESI | 4852.00 | PC | 3-59 | V54 | 783643259577 |
| WMM44CA200UR | RESI | 4960.00 | PC | 3-60 | V54 | 783643260337 |
| WMM44CA2URNJ | RESI | 5093.00 | PC | 3-60 | V54 | 783643260344 |
| WMM44CAU | RESI | 2401.00 | PC | 3-59 | V53 | 783643259430 |
| WMM44CAUR | RESI | 2533.00 | PC | 3-60 | V53 | 783643259911 |
| WMM44CAURNJ | RESI | 2647.00 | PC | 3-60 | V53 | 783643259928 |
| WMM4U | RESI | 2218.00 | PC | 3-59 | V4Y | 783643259348 |
| WMM4UR | RESI | 2338.00 | PC | 3-60 | V4Y | 783643070776 |
| WMM4URNJ | RESI | 2481.00 | PC | 3-60 | V4Y | 783643259652 |
| WMM54AB200U | RESI | 5660.00 | PC | 3-59 | V54 | 783643326163 |
| WMM54AB2URNJ | RESI | 5750.00 | PC | 3-60 | V54 | 783643453609 |
| WMM54ABU | RESI | 3097.00 | PC | 3-59 | V53 | 783643259447 |
| WMM54ABUR | RESI | 3228.00 | PC | 3-60 | V53 | 783643259942 |
| WMM54ABURNJ | RESI | 3417.00 | PC | 3-60 | V53 | 783643259959 |
| WMM54BC200U | RESI | 5660.00 | PC | 3-59 | V54 | 783643326170 |
| WMM54BC2URNJ | RESI | 5750.00 | PC | 3-60 | V54 | 783643453616 |
| WMM54BCUR | RESI | 3226.00 | PC | 3-60 | V53 | 783643259973 |
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| WMM54CA2URNJ | RESI | 5750.00 | PC | 3-60 | V54 | 783643453692 |
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| WMM5UR | RESI | 2988.00 | PC | 3-60 | V4Y | 783643259676 |
| WMM5URNJ | RESI | 3126.00 | PC | 3-60 | V4Y | 783643259683 |
| WMM64U | RESI | 3806.00 | PC | 3-59 | V53 | 783643259478 |
| WMM64UR | RESI | 3987.00 | PC | 3-60 | V53 | 783643260030 |
| WMM64URNJ | RESI | 4019.00 | PC | 3-60 | V53 | 783643260047 |
| WMM6U | RESI | 3516.00 | PC | 3-59 | V4Y | 783643259362 |
| WMM6UR | RESI | 3650.00 | PC | 3-60 | V4Y | 783643259706 |
| WMM6URNJ | RESI | 3987.00 | PC | 3-60 | V4Y | 783643259713 |
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| WMMB1400 | RESI | 1472.00 | PC | 3-58 | V4S | 783643202580 |
| WMMB1800 | RESI | 1634.00 | PC | 3-58 | V4S | 783643175464 |
| WMMB31200 | RESI | 6123.00 | PC | 3-58 | V4S | 783643175471 |
| WMMB3400 | RESI | 2333.00 | PC | 3-58 | V4S | 783643202597 |
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| WMMBK | RESI | 230.00 | PC | 3-67 | V4X | 783643239463 |
| WMP024U | RESI | 2176.00 | PC | 3-57 | V4V | 783643267190 |
| WMP02U | RESI | 1430.00 | PC | 3-57 | V4V | 783643267183 |
| WMS124U | RESI | 30471.00 | PC | 3-57 | V4V | 783643266483 |
| WMS12U | RESI | 27172.00 | PC | 3-57 | V4V | 783643266490 |
| WMS44U | RESI | 4945.00 | PC | 3-57 | V4V | 783643267220 |
| WMS44UPBU | RESI | 7287.00 | PC | 3-57 | V4V | 783643254244 |
| WMS4U | RESI | 4352.00 | PC | 3-57 | V4V | 783643267206 |
| WMS4UPBU | RESI | 5330.00 | PC | 3-57 | V4V | 783643176683 |
| WMS64U | RESI | 10096.00 | PC | 3-57 | V4V | 783643267251 |
| WMS64UPBU | RESI | 12952.00 | PC | 3-57 | V4V | 783643254268 |
| WMS6U | RESI | 8267.00 | PC | 3-57 | V4V | 783643267237 |
| WMS6UPBU | RESI | 9862.00 | PC | 3-57 | V4V | 783643254251 |
| WMS84U | RESI | 18392.00 | PC | 3-57 | V4V | 783643267282 |
| WMS84UPBU | RESI | 21300.00 | PC | 3-57 | V4V | 783643254282 |
| WMS8U | RESI | 12668.00 | PC | 3-57 | V4V | 783643267268 |
| WMS8UPBU | RESI | 14243.00 | PC | 3-57 | V4V | 783643254275 |
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| WMTB12U | RESI | 2422.00 | PC | 3-58 | V4T | 783643267312 |
| WMTB164U | RESI | 5620.00 | PC | 3-58 | V4T | 783643267343 |
| WMTB16U | RESI | 5194.00 | PC | 3-58 | V4T | 783643267336 |
| WMTB84U | RESI | 1738.00 | PC | 3-58 | V4T | 783643267350 |
| WMTB8U | RESI | 1654.00 | PC | 3-58 | V4T | 783643267299 |
| WN2060 | RESI | 150.00 | PC | 1-8 | V26 | 783643362116 |
| WN2060GFCI | RESI | 463.00 | PC | 1-8 | V26 | 783643496514 |
| WN2060PL | RESI | 214.00 | PC | 1-8 | V26 | 783643503168 |
| WN2060PLX | RESI | 224.00 | PC | 1-8 | V26 | 783643537675 |
| WNAS2060 | RESI | 184.00 | PC | 1-8 | V26 | 783643449060 |
| WNAS2060GFCI | RESI | 500.00 | PC | 1-8 | V26 | 783643496569 |
| WNAS2060PL | RESI | 360.00 | PC | 1-8 | V26 | 783643561670 |
| WSX019 | RESI | 12.14 | PC | 3-11 | V4N | 783643082328 |
| 64690-1 | RESI | 34.08 | PC | 3-11 | V4N | 783643435520 |

9 PRODUCT INDEX

Pricing and information subject to change without notice.

MURRAY ROCK-SOLID WARRANTY

As a new home owner, there is a certain high level of quality you expect from your electrical system. With the Murray Warranty, we want to translate your expectations into rock-solid confidence in Murray residential load centers and circuit protection devices.

The Ultimate in Electrical Protection Now Comes With The Ultimate in Warranty Protection

The Murray Warranty covers the Murray load center in your home for 10 years. This Warranty also provides lifetime warranty protection for the MP-T, MH-T, MPP-T, and MP-HT circuit breakers found in your load center. (See limited warranty on this page for details.)

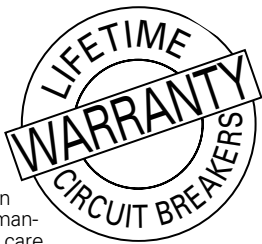
A Recognized World-Leader in Quality Manufacturing

The name Murray has long been synonymous with superior quality residential electrical products. To reinforce that hard-earned reputation, the facilities where Murray residential products are manufactured have been recognized by the International Organization for Standardization (ISO) for their adherence and commitment to quality manufacturing and management practices.

Limited Warranty

I. Lifetime Limited Warranty on Branch Circuit Breakers (15-225A)

Siemens warrants its Murray MP-T, MH-T, MPP-T, and MP-HT branch circuit breakers to be free from defects in material and workmanship under normal care and proper usage in a domestic residential installation for the lifetime of the Murray load center in which it is installed. If the circuit breaker fails within the warranty period, because of a defect in material or workmanship, Siemens will replace the inoperative Murray breaker free of charge upon following the indicated notice procedures and return of the product to place of purchase.



II. Limited 10-year Warranty on Murray Load Centers

Siemens warrants its Murray factory installed main breaker and main lug single phase load centers when used with Murray circuit breakers described in item I. to be free from defects in material and workmanship under normal care and proper usage in a domestic residential installation for a period of 10 years from the date of installation. If a load center fails within the warranty period, because of a defect in material or workmanship, Siemens will, at its option, repair or replace the inoperative Murray part or parts upon following the indicated notice procedures and return of the product to the place of purchase.



III. This warranty applies to items described in I. and II. which were purchased and installed after February 1, 1994.

IV. Additional Information

Notice requirements and limitations applicable to Siemens warranties are:

A. Siemens must be given prompt written notice of any defect or failure of any Murray product covered by the warranty. Notice must be accompanied by verification of date of purchase or installation.

B. Any product authorized for return by Siemens, or its authorized Murray distributors under this warranty must be sent freight costs prepaid. Siemens will deliver repaired or replaced Murray products to the buyer, freight costs prepaid. Repaired or replaced products shall be warranted for the unexpired portion of the warranty period.

C. Any repair or replacement of inoperative part(s) shall not include cost or reimbursement for labor.

D. Any warranties granted or liabilities assumed hereunder will not apply to products that have been damaged, altered, repaired or operated otherwise than in conformity within the requirements for safe operation and maintenance.

E. THERE ARE NO OTHER WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSLY SET FORTH HEREIN AND THIS WARRANTY AND SIEMENS' OBLIGATIONS AND LIABILITIES HEREUNDER ARE IN LIEU OF, AND SIEMENS DISCLAIMS ALL OTHER WARRANTIES AND GUARANTEES AND ALL OTHER LIABILITIES THEREFORE EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SIEMENS BE LIABLE FOR ANY OTHER DAMAGES, EITHER DIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

F. With respect to products purchased by consumers of the United States for personal use, the implied warranties including but not limited to the warranties of merchantability and of fitness for a particular purpose are not excluded but are limited to the duration of the applicable warranty period. Some states do not allow limitations on the duration of any implied warranty, so the above limitation may not apply to buyer. Similarly, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to buyer. This warranty gives buyer specific legal rights, and buyer may also have other rights which may vary from state to state.

This warranty covers domestic residential use of Murray products described in items I. and II. hereof and excludes any commercial applications.

Siemens Energy & Automation, Inc. ("Seller")

Standard Terms and Conditions of Sale (10/1/2004)

1. **WARRANTY** - (a) Seller warrants that on the date of shipment the goods are of the kind and quality described herein and are free of non-conformities in workmanship and material. This warranty does not apply to goods delivered by Seller but manufactured by others.

(b) Buyer's exclusive remedy for a nonconformity in any item of the goods shall be the repair or the replacement (at Seller's option) of the item and any affected part of the goods. Seller's obligation to repair or replace shall be in effect for a period of one (1) year from initial operation of the goods but not more than eighteen (18) months from Seller's shipment of the goods, provided Buyer has sent written notice within that period of time to Seller that the goods do not conform to the above warranty. Repaired and replacement parts shall be warranted for the remainder of the original period of notification set forth above, but in no event less than 12 months from repair or replacement. At its expense, Buyer shall remove and ship to Seller any such nonconforming items and shall reinstall the repaired or replaced parts. Buyer shall grant Seller access to the goods at all reasonable times in order for Seller to determine any nonconformity in the goods. Seller shall have the right of disposal of items replaced by it. If Seller is unable or unwilling to repair or replace, or if repair or replacement does not remedy the nonconformity, Seller and Buyer shall negotiate an equitable adjustment in the contract price, which may include a full refund of the contract price for the nonconforming goods.

(c) SELLER HEREBY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE. SPECIFICALLY, IT DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF DEALING AND USAGE OF TRADE.

(d) Buyer and successors of Buyer are limited to the remedies specified in this article and shall have no others for a nonconformity in the goods. Buyer agrees that these remedies provide Buyer and its successors with a minimum adequate remedy and are their exclusive remedies, whether Buyer's or its successors' remedies are based on contract, warranty, tort (including negligence), strict liability, indemnity, or any other legal theory, and whether arising out of warranties, representations, instructions, installations, or non-conformities from any cause.

(e) Note: This article 1 does not apply to any software which may be furnished by Seller. In such cases, the attached Software License Addendum applies.

2. **PATENTS** - Seller shall pay costs and damages finally awarded in any suit against Buyer or its vendees to the extent based upon a finding that the design or construction of the goods as furnished infringes a United States patent (except infringement occurring as a result of incorporating a design or modification at Buyer's request), provided that Buyer promptly notifies Seller of any charge of infringement, and Seller is given the right at its expense to settle such charge and to defend or control the defense of any suit based upon such charge. Seller shall have no obligation hereunder with respect to claims, suits or proceedings, resulting from or related to, in whole or in part, (i) the use of software or software documentation, (ii) compliance with Buyer's specifications, (iii) the combination with, or modification of, the goods after delivery by Seller, or (iv) the use of the goods, or any part thereof, in the practice of a process. THIS ARTICLE SETS FORTH SELLER'S ENTIRE LIABILITY WITH RESPECT TO PATENTS.

3. **PERFORMANCE; DELAYS** - Timely performance by Seller is contingent upon Buyer's supplying to Seller, when needed, all required technical information and data, including drawing approvals, and all required commercial documentation. If Seller suffers delay in performance due to any cause beyond its reasonable control, the time of performance shall be extended a period of time equal to the period of the delay and its consequences. Seller will give to Buyer notice within a reasonable time after Seller becomes aware of any such delay.

4. **SHIPMENT, TITLE AND RISK OF LOSS** - Unless the delivery terms of this contract expressly provide for F.O.B. destination, shipping/delivery will be F.O.B. Seller's point of shipment with title to the goods and risk of loss or damage passing to Buyer at that point. Buyer will be responsible for shipment during transit and for filing any damage or loss claims directly with the carrier. Seller may make partial shipments.

5. **TAXES** - Any applicable duties or sales, use, excise, value-added or similar taxes will be added to the price and invoiced separately (unless an acceptable exemption certificate is furnished).

6. **TERMS OF PAYMENT** - (a) Unless otherwise stated, all payments shall be in United States dollars, and a pro rata payment shall become due as each shipment is made. If shipment is delayed by Buyer, date of notice of readiness for shipment shall be deemed to be date of shipment for payment purposes.

(b) On late payments, the contract price shall, without prejudice to Seller's right to immediate payment, be increased by 1 1/2% per month on the unpaid balance, but not to exceed the maximum permitted by law.

(c) If any time in Seller's judgment Buyer is unable or unwilling to meet the terms specified, Seller may require satisfactory assurance or full or partial payment as a

condition to commencing or continuing manufacture or making shipment, and may, if shipment has been made, recover the goods from the carrier, pending receipt of such assurances.

7. **NONCANCELLATION** - Buyer may not cancel or terminate for convenience, or direct suspension of manufacture, except with Seller's written consent and then only upon terms that will compensate Seller for its engineering, fabrication and purchasing charges and any other costs relating to such cancellation, termination or suspension, plus a reasonable amount for profit.

8. **NUCLEAR** - Buyer represents and warrants that the goods covered by this contract shall not be used in or in connection with a nuclear facility or application. If Buyer is unable to make such representation and warranty, then Buyer agrees to indemnify and hold harmless Seller and to waive and require its insurers to waive all right of recovery against Seller for any damage, loss, destruction, injury or death resulting from a "nuclear incident", as that term is defined in the Atomic Energy Act of 1954, as amended, whether or not due to Seller's negligence.

9. **LIMITATION OF LIABILITY** - NEITHER SELLER, NOR ITS SUPPLIERS SHALL BE LIABLE, WHETHER IN CONTRACT, WARRANTY, FAILURE OF A REMEDY TO ACHIEVE ITS INTENDED OR ESSENTIAL PURPOSES, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, INDEMNITY OR ANY OTHER LEGAL THEORY, FOR LOSS OF USE, REVENUE OR PROFIT, OR FOR COSTS OF CAPITAL OR OF SUBSTITUTE USE OR PERFORMANCE, OR FOR INDIRECT, SPECIAL, LIQUIDATED, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER LOSS OR COST OF A SIMILAR TYPE, OR FOR CLAIMS BY BUYER FOR DAMAGES OF BUYER'S CUSTOMERS. SELLER'S MAXIMUM LIABILITY UNDER THIS CONTRACT SHALL BE THE CONTRACT PRICE. BUYER AND SELLER AGREE THAT THE EXCLUSIONS AND LIMITATIONS SET FORTH IN THIS ARTICLE ARE SEPARATE AND INDEPENDENT FROM ANY REMEDIES WHICH BUYER MAY HAVE HEREUNDER AND SHALL BE GIVEN FULL FORCE AND EFFECT WHETHER OR NOT ANY OR ALL SUCH REMEDIES SHALL BE DEEMED TO HAVE FAILED OF THEIR ESSENTIAL PURPOSE.

10. **GOVERNING LAW AND ASSIGNMENT** - The laws of the State of Georgia shall govern the validity, interpretation and enforcement of this contract, without regard to its conflicts of law principles. The application of the United Nations Convention on Contracts for the International Sale of Goods shall be excluded. Assignment may be made only with written consent of both parties; provided, however, Seller may assign to its affiliate without Buyer's consent.

11. **ATTORNEY FEES** - Buyer shall be liable to Seller for any attorney fees and costs incurred by Seller in enforcing any of its rights hereunder.

12. **DISPUTES** - Either party may give the other party written notice of any dispute arising out of or relating to this contract and not resolved in the normal course of business. The parties shall attempt in good faith to resolve such dispute promptly by negotiations between executives who have authority to settle the dispute. If the matter has not been resolved within 60 days of the notice, either party may initiate non-binding mediation of the dispute.

13. **STATUTE OF LIMITATIONS** - To the extent permitted by applicable law, any lawsuit for breach of contract, including breach of warranty, arising out of the transactions covered by this contract, must be commenced not later than twelve (12) months from the date the cause of action accrued.

14. **PRICES** - In the event of a price increase or decrease, the price of goods on order will be adjusted to reflect such increase or decrease. This does not apply to a shipment held by request of Buyer. Goods already shipped are not subject to price increase or decrease. Orders on a bid or contract basis are not subject to this article. Seller's prices include the costs of standard domestic packing only. Any deviation from this standard packing (domestic or export), including U.S. Government sealed packing, will result in extra charges. To determine such extra charges, consult Seller's sales offices. Orders of less than \$400 will be charged a \$25 handling fee.

15. **ADDITIONAL TERMS OF PAYMENT** - Invoice payment terms are as shown on latest discount sheets as issued from time to time. Cash discounts are not applicable to notes or trade acceptances, to prepaid transportation charges when added to Seller's invoices or to discountable items if there are undisputed past due items on the account. Portions of an invoice in dispute should be deducted and the balance remitted with a detailed explanation of the deduction. Cash discounts will only be allowed on that portion of the invoice paid within the normal discount period.

16. **CHANGES IN LAWS AND REGULATIONS** - Seller's prices and timely performance are based on all applicable laws, rules, regulations, orders, codes, standards or requirements of governmental authorities effective on the date of Seller's proposal. Any change to any law, rule, regulation, order, code, standard or requirement which requires any change hereunder shall entitle Seller to an equitable adjustment in the prices and any time of performance.

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