Quick-connect double-throw safety switch

The safe way to transfer power
Over the past decade, Eaton has led the industry in safety switch innovations by saying “Yes!” to customers who want custom solutions to switching problems. The Flex Center in the Cleveland, TN, plant has offered these solutions to customers through direct one-on-one contact —gaining understanding of the issues and developing solutions to fit those needs. During the past few years, the Flex Center has seen a growing customer need to be able to connect and disconnect portable generators to facilities’ electrical systems. Flex Center engineers developed the quick-connect double-throw (QCDT) switch to provide a safe and quick means of connecting portable generators to facilities, and transferring the building to backup power. Now, after a full engineering development program, Eaton proudly offers the QCDT as a complete UL® Listed product offering. This product focus provides an in-depth look at the product offering, its applications and National Electrical Code® considerations.
Connecting portable generators can pose serious risks if not done properly

Eaton’s QCDT helps to minimize those risks. There are many potential hazards created when temporarily connecting high-ampacity portable equipment such as large generators. These hazards pose serious risks to life and property, and open businesses and individuals to liability for losses caused by improper or unsafe installation. The QCDT incorporates many design elements that ensure operator and public safety. The safety elements of the QCDT include:

- UL Listed device
- Meets NEC® requirements
- Receptacle compartment safety interlocks
- Utility isolation without key interlocks
- Proper material selection
- Exclusive trap-door system
Double-throw switch

As a double-throw switch, the QCDT contains two vertically oriented switches in one enclosure that are operated by a single handle. In between the two switches is a common bus and lugs for outgoing cables. The handle has a three-position operation. In the upper position, the upper switch is closed; in the middle position, both switches are open; and in the lower position, the lower switch is closed. Thus, the two switches are mutually exclusive—that is, they cannot both be closed at the same time. The outgoing lugs are fed either from the top switch or the bottom switch, but never by both. This operation provides two important safety functions:

1. To keep from feeding generated power out to the utility wires, which could injure utility line workers and would also cause the generator to become overloaded.

2. To prevent paralleling utility and generator sources when utility power is restored, which could cause damage to electrical equipment and would violate electrical codes and local laws.

In the QCDT design, the upper switch serves as the utility main disconnect, and the lower switch is the generator disconnect. The difference between a standard double-throw switch and the QCDT is that the latter is supplied with the generator disconnect factory-wired to individual receptacles for each phase neutral and ground conductor. These receptacles are inlets for temporarily connecting a generator to the switch without knocking holes in the enclosure to terminate the wires at the mechanical lugs.

The QCDT may be configured with fused switches in either position. The most common application is shown in the figure at the right. In this arrangement, the switch is used as a service entrance switch, with the utility switch fused, and the generator switch non-fused.

In this manner, the main disconnect switch has the overcurrent protection required by NEC Article 230.90. Fuses are generally not required on the generator switch because generators are supplied with load side overcurrent protection.

Double-Throw Switches Have Two Interlocked Switches with a Common Load Side Connection

Both switches cannot be closed at the same time, ensuring that the building is isolated from the utility grid while on generator power.
1. **100A and 200A QCDT Receptacle Compartment with Generator Plugs Connected**
   The interlocked receptacle compartment has a hinged trap door for the generator inlet cables to exit. The generator switch cannot be closed while the cable compartment door is open.

2. **100A and 200A QCDT with Generator Cables Connected and Receptacle Compartment Door Closed**
   With the cable compartment door closed, and the generator switch closed, the interlock prevents the door from being opened.

3. **400–800A QCDT (400A Shown)**
   The 400A QCDT has a single row of receptacles, while the 600A and 800A have parallel receptacles.

4. **400–800A QCDT Cable Compartment**
   Like the 200A enclosure, the 400–1200A enclosure has an interlocked door over the cable compartment, and a trap door to allow the generator cables to exit.

5. **1200A QCDT Cable Compartment**
   The 1200A have switches with three receptacles per phase, three ground and three neutral.
Features and options

**Designed for all customers**

The QCDT design includes elements for the user and the contractor alike.

For the user:
- Color-coordinated receptacles
- Trap-door design
- Receptacle compartment interlock
- Simple operation

For the contractor:
- Improved conduit entry options
- Lifting eyes
- Mounting assist bracket
- 100% copper conductors
- Copper foil wrapped electrical connections

The revolutionary (QCDT) takes Eaton’s leadership in double-throw switch design to a new level of customer usability. Available from 100A to 1200A, the QCDT’s primary function is to serve as a service entrance main disconnect with the added functionality of factory-installed receptacles that allow customers to quickly connect a portable generator, to isolate the building from the utility grid and to transfer the building over to the portable generator. However, that description only tells what the QCDT does, and does not touch on all of the unique safety features of the design.

**Generator connection compartment**

The generator connection receptacles are located in a separate, isolated compartment of the switch. This receptacle compartment has a hinged trap door on the bottom to allow the connection cables to exit and a front door to access the receptacles. A key safety feature of the QCDT is that the receptacle compartment front door is interlocked with the lower (generator) switch. This interlock prevents the switch from being closed if the door is open, and also prevents the door from being opened if the switch is closed. Therefore, for operation of the switch, the door must be closed and secured—with the cables exiting through the trap door.

This interlock is vital for personnel protection because high-ampacity receptacles are not load-break rated. If one were to disconnect a current-carrying receptacle under load, a large arc flash would result, likely injuring or even killing the person disconnecting the cable.

1. **QCDT Interlock**
   - The receptacle compartment is interlocked with the generator switch to prevent access to the receptacles when the generator switch is closed.

2. **400–1200A QCDT**
   - The higher ampacity QCDT switch design has the receptacle compartment on the right side to allow the bottom of the main compartment to be used for conduit entry.

3. **100A and 200A QCDT**
   - The lower ampacity switches have the receptacles mounted on the bottom of the switch for a compact design.
There are many companies and individuals that are producing products with similar quick-connect receptacles to the QCDT. Many of these are not UL Listed, and do not have the safety interlocks required by UL. Moreover, if the switch was originally a UL Listed product that has been modified, the switch may still bear the UL label even though the assembly is not listed. It is imperative that users know and understand the origin of the products being installed. Failure to do so could result in injury, property damage and death.

**Connection cords**

An important consideration for the customer is to understand who will provide the cord set to connect the generator. If the customer is planning on renting the generator, there needs to be a discussion with the rental company to ascertain if the rental company will be providing the cord sets. If so, the customer needs to ask what type of connectors are on the cords. Another option available to customers is to purchase the cord sets from Eaton and keep the cords on-site. This guarantees that the proper plugs are on-site when they are needed.

**UL listing**

The QCDT product line is UL Listed (UL File 5239, Vol. 6, Section 19) and meets the requirements of the National Electrical Code, including the requirements of 110.3(B) that the product is listed and found suitable for a specified purpose (in this case, for use with portable electrical generators). Products that are field-modified to add receptacles, but have not been evaluated by UL, would be installed as a clear violation of 110.3(B).

There are many companies and individuals that are producing products with similar quick-connect receptacles to the QCDT. Many of these are not UL Listed, and do not have the safety interlocks required by UL. Moreover, if the switch was originally a UL Listed product that has been modified, the switch may still bear the UL label even though the assembly is not listed. It is imperative that users know and understand the origin of the products being installed. Failure to do so could result in injury, property damage and death.

**Posi-Lok Receptacles**

These receptacles have an added safety feature that requires the cables to be connected and disconnected in the proper sequence.

**Cam-Lok Receptacles**

Cam-Loks are the better option when the connection of the portable generator will always be made by a licensed electrician.

**Cam-Lok Plugs**

Eaton also offers cord sets that match the receptacles. Call the Flex Center at 1-888-329-9272 for a quotation.

**Foolproof Design**

If for some reason cord sets are not available, the QCDT is equipped with auxiliary terminals for temporarily hardwiring, without damaging the enclosure or sacrificing safety.
Switch configurations

The QCDT is the first double-throw switch available from Eaton that allows for both fusible and non-fusible switches in the same enclosure. This allows customers to configure the switches in the QCDT to suit the individual application.

For service entrance applications, one would choose to have a fusible utility switch to provide the overcurrent protection required by NEC Article 230.90. Because generators commonly have overcurrent protection, the generator switch could be a simple non-fused disconnect. The fusible switch has a fault current rating of 100 kAIC at 600V. The non-fusible switch is rated at 10 kAIC, which is more than sufficient to handle the output fault current from the generator.

If the QCDT is not a service entrance device and is fed on the normal side by a breaker or a fuse, then neither switch requires overcurrent protection, and both switches can be non-fused.

Switching neutral

Another switch option that requires consideration is whether or not to switch the neutral. The determining factor in this decision is whether the generator has a bonded neutral and thus meets the NEC definition of a separately derived system in Section 250.20(D). If the generator neutral is grounded, then the service disconnect neutral bond must be broken because there may be only one bonding point in the system. In addition to breaking the service bond, the separately derived system (generator) shall be grounded in accordance with Article 250.30.

Breaking the service bond is done by selecting the switched neutral option. When this option is chosen, the neutral is factory bonded on the line side of the switch. However, this option should only be chosen if the generator neutral is bonded. In most applications, the generator neutral is not bonded, and a separately derived system is not created. In these cases, a solid neutral should be supplied. If a generator arrives with a bonded neutral, it is easier to disconnect the generator bond than to meet the requirements of Article 250.30.
Selecting the right QCDT

QCDT ordering guidelines

Choose the right QCDT with these criteria:

- Maximum voltage rating:
  - 240V
  - 600V

- Pole configuration:
  - Two-pole, three-wire, with a solid neutral
  - Three-pole, three-wire, with a switched neutral pole (two-phase and one neutral pole)
  - Three-pole, four-wire, with a solid neutral
  - Four-pole, four-wire, with a switched neutral pole (three-phase and one neutral pole)

- Ampacity:
  - 100A
  - 200A
  - 400A
  - 600A
  - 800A
  - 1200A

- Upper switch:
  - Unfused
  - Fusible

- Lower switch:
  - Unfused
  - Fusible

- Enclosure type:
  - NEMA 1 Indoor
  - NEMA 3R Outdoor

- Receptacle type:
  - Cam-Lok
  - Posi-Lok

- Neutral:
  - Solid neutral
  - Switched neutral

When upper and lower switches are the same, the switch configuration is consolidated in one letter (e.g., “U” not “UU”).
Also, a switch with a neutral will have either a solid neutral or a switched neutral, not both. Lastly, a switched neutral pole is never fused.

This field is used only when a switch is completely non-fused.

Selecting a QCDT is similar to selecting a safety switch—with a few more specifications to consider.

- Maximum voltage rating:
  - 240V
  - 600V

- Pole configuration:
  - Two-pole, three-wire, with a solid neutral

Lugs

Available lug capacities of the double-throw switch assembly with Cam-Lok or Posi-Lok receptacles

<table>
<thead>
<tr>
<th>Double-Throw Switch Size—Cam-Lok or Posi-Lok Receptacles</th>
<th>Service Terminal Openings</th>
<th>Load Terminal Openings</th>
<th>Switched Neutral Pole Load Terminal Openings</th>
<th>Solid Neutral Terminal Openings</th>
<th>Ground Terminal Openings</th>
<th>Receptacle Bypass Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>(1) 1/0–14 AWG Cu/Al</td>
<td>(1) 1/0–14 AWG Cu/Al</td>
<td>(1) 1/0–14 AWG Cu/Al</td>
<td>(2) 1/0–14 AWG Cu/Al</td>
<td>(3) 2–14 AWG Cu/Al</td>
<td>(1) 10–32 screw mounting</td>
</tr>
<tr>
<td>200</td>
<td>(1) 300 kcmil–1/0 or (2) 300 kcmil–1/0 Cu/Al</td>
<td>(1) 250 kcmil–6 AWG Cu/Al</td>
<td>(1) 250 kcmil–6 AWG Cu/Al</td>
<td>(2) 250 kcmil–6 AWG Cu/Al</td>
<td>(3) 2–14 AWG Cu/Al</td>
<td>(2) 1/4 studs, 1.75-inch spacing</td>
</tr>
<tr>
<td>400</td>
<td>(1) 750 kcmil–1/0 or (2) 300 kcmil–1/0 Cu/Al</td>
<td>(1) 750 kcmil–1/0 or (2) 300 kcmil–1/0 Cu/Al</td>
<td>(1) 750 kcmil–1/0 or (2) 300 kcmil–1/0 Cu/Al</td>
<td>(6) 500–250 kcmil or (6) 250 kcmil–6 AWG Cu/Al</td>
<td>(4) 250 kcmil–6 AWG Cu/Al</td>
<td>(2) 1/2–13 UNC studs, 1.75-inch spacing</td>
</tr>
<tr>
<td>800</td>
<td>(4) 750 kcmil–3/0 Cu/Al</td>
<td>(4) 500–250 kcmil Cu/Al</td>
<td>(4) 500–250 kcmil Cu/Al</td>
<td>(6) 500–250 kcmil or (4) 250 kcmil–6 AWG Cu/Al</td>
<td>(4) 250 kcmil–6 AWG Cu/Al</td>
<td>(2) 1/2–13 UNC studs, 1.75-inch spacing</td>
</tr>
<tr>
<td>1200</td>
<td>(4) 750 kcmil–1/0 Cu/Al</td>
<td>(4) 500–250 kcmil Cu/Al</td>
<td>(4) 500–250 kcmil Cu/Al</td>
<td>(6) 500–250 kcmil or (4) 250 kcmil–6 AWG Cu/Al</td>
<td>(4) 250 kcmil–6 AWG Cu/Al</td>
<td>(2) 1/2–13 UNC studs, 1.75-inch spacing</td>
</tr>
</tbody>
</table>
## Quick-connect double-throw standard receptacles and corresponding connection plugs

(Part numbers are Eaton’s Crouse-Hinds part numbers)

<table>
<thead>
<tr>
<th>Switch Amperage</th>
<th>Connector Color</th>
<th>Cam-Lok Connectors</th>
<th>Posi-Lok Connectors</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Receptacle Panel E0200-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0200-1661-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1661-NN</td>
<td>E0200-282</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
<tr>
<td>300 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Two-pole, three-wire with Solid Neutral or three-pole, three-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0200-1661-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1661-NN</td>
<td>E0200-282</td>
</tr>
<tr>
<td>400 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (three-phase and one Neutral Pole): E0400-1662-NN</td>
<td>E0400-285</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1681</td>
<td>E0400-283</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1681</td>
<td>E0400-283</td>
</tr>
<tr>
<td>500 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
</tbody>
</table>

### 240VAC

<table>
<thead>
<tr>
<th>Switch Amperage</th>
<th>Connector Color</th>
<th>Cam-Lok Connectors</th>
<th>Posi-Lok Connectors</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Receptacle Panel E0200-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
<tr>
<td>300 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1662</td>
<td>E0200-284</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0200-1681</td>
<td>E0200-283</td>
</tr>
<tr>
<td>400 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (three-phase and one Neutral Pole): E0400-1662-NN</td>
<td>E0400-285</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (three-phase and one Neutral Pole): E0400-1662-NN</td>
<td>E0400-285</td>
</tr>
<tr>
<td>B Phase (red)</td>
<td>C Phase (blue)</td>
<td>200</td>
<td>Neutral Pole (two-phase and one Neutral Pole): E0400-1662-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (three-phase and one Neutral Pole): E0400-1662-NN</td>
<td>E0400-285</td>
</tr>
</tbody>
</table>

### 600VAC

<table>
<thead>
<tr>
<th>Switch Amperage</th>
<th>Connector Color</th>
<th>Cam-Lok Connectors</th>
<th>Posi-Lok Connectors</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0200-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1891</td>
<td>E0200-281</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0200-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1891</td>
<td>E0200-281</td>
</tr>
<tr>
<td>B Phase (orange)</td>
<td>C Phase (yellow)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0200-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0200-1891</td>
<td>E0200-281</td>
</tr>
<tr>
<td>300 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-282</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-282</td>
</tr>
<tr>
<td>B Phase (orange)</td>
<td>C Phase (yellow)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-282</td>
</tr>
<tr>
<td>400 Ground (green)</td>
<td>Neutral (white)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-283</td>
</tr>
<tr>
<td>Neutral (white)</td>
<td>A Phase (black)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-283</td>
</tr>
<tr>
<td>B Phase (orange)</td>
<td>C Phase (yellow)</td>
<td>200</td>
<td>Three-pole, three-wire (no Neutral): E0400-1891-NN/ three-pole, four-wire with Solid Neutral or four-pole, four-wire with Switched Neutral Pole (two-phase and one Neutral Pole): E0400-1891</td>
<td>E0400-283</td>
</tr>
</tbody>
</table>

### Notes:
- For non-standard receptacle options, please contact the Flex Center at 888-329-9272.
- E-Z 1016 type plugs listed in above table accept 2/0–4/0 size cable.
- E-Z 2000 type plugs listed in above table accept #2–2/0 size cable. E-Z 4000 type listed accept 3/0–4/0 size cable.
- Note: Switches are not supplied with the mating plugs. Eaton will supply the plug if cord sets are ordered.
### Approximate Dimensions in Inches (mm)

**Note:** Dimensions are for estimating purposes only.

---

#### Quick Connect Double Throws, Fusible and Non-Fusible, 240V and 600V

1. **Quick Connect Double Throws, Fusible and Non-Fusible, 240V and 600V (1 of 2)**

![Diagram of Quick Connect Double Throws](image1)

**Ampere Rating** | **Width (W)** | **Height (H)** | **Depth (D1)** | **Depth (D2)** | **Weight lbs (kg)**
--- | --- | --- | --- | --- | ---
100 | 10.57 (273.5) | 39.12 (993.6) | 13.68 (347.5) | 8.61 (218.7) | 40 (64)
200 | 10.57 (273.5) | 41.87 (1063.5) | 16.10 (408.9) | 11.14 (283.0) | 90 (126)
1200 | 42.62 (1083.0) | 87.78 (2230.0) | 29.62 (752.0) | 20.47 (520.0) | 1025 (465)

2. **Quick Connect Single Throws, Fusible and Non-Fusible, 240V and 600V (2 of 2)**

![Diagram of Quick Connect Single Throws](image2)

**Ampere Rating** | **Width (W1)** | **Height (H)** | **Depth (D1)** | **Depth (D2)** | **Weight lbs (kg)**
--- | --- | --- | --- | --- | ---
100 | 18.57 (471.1) | 39.12 (993.6) | 13.68 (347.5) | 8.61 (218.7) | 40 (64)
200 | 18.57 (471.1) | 41.87 (1063.5) | 16.10 (408.9) | 11.14 (283.0) | 90 (126)
400 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
600 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
800 | 32.87 (834.9) | 85.04 (2160.0) | 21.73 (551.9) | 16.79 (426.5) | 540 (245)
1200 | 42.62 (1083.0) | 90.23 (2292.0) | 29.62 (752.0) | 20.47 (520.0) | 915 (415)

---

### Quick Connect Double Throws, Fusible and Non-Fusible, 240V and 600V

**Ampere Rating** | **Width (W)** | **Height (H)** | **Depth (D1)** | **Depth (D2)** | **Weight lbs (kg)**
--- | --- | --- | --- | --- | ---
100 | 18.57 (471.1) | 39.12 (993.6) | 13.68 (347.5) | 8.61 (218.7) | 40 (64)
200 | 18.57 (471.1) | 41.87 (1063.5) | 16.10 (408.9) | 11.14 (283.0) | 90 (126)
400 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
600 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
800 | 32.87 (834.9) | 85.04 (2160.0) | 21.73 (551.9) | 16.79 (426.5) | 540 (245)
1200 | 42.62 (1083.0) | 90.23 (2292.0) | 29.62 (752.0) | 20.47 (520.0) | 915 (415)

---

### Quick Connect Single Throws, Fusible and Non-Fusible, 240V and 600V

**Ampere Rating** | **Width (W)** | **Height (H)** | **Depth (D1)** | **Depth (D2)** | **Weight lbs (kg)**
--- | --- | --- | --- | --- | ---
100 | 18.57 (471.1) | 39.12 (993.6) | 13.68 (347.5) | 8.61 (218.7) | 40 (64)
200 | 18.57 (471.1) | 41.87 (1063.5) | 16.10 (408.9) | 11.14 (283.0) | 90 (126)
400 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
600 | 32.87 (834.9) | 73.79 (1874.3) | 16.10 (408.9) | 11.14 (283.0) | 370 (168)
800 | 32.87 (834.9) | 85.04 (2160.0) | 21.73 (551.9) | 16.79 (426.5) | 540 (245)
1200 | 42.62 (1083.0) | 90.23 (2292.0) | 29.62 (752.0) | 20.47 (520.0) | 915 (415)

---

**EATON** Quick-connect double-throw safety switch
For more information:
If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

U.S. (global headquarters):
Eaton's Crouse-Hinds business
1201 Wolf Street
Syracuse, NY 13208
(866) 764-5454
FAX: (315) 477-5179
FAX Orders Only:
(866) 653-0640
crousecustomerctr@eaton.com

Canada
Toll Free: 800-265-0502
FAX: (800) 263-9504
FAX Orders only: (866) 653-0645

Eaton Middle East
9714-8066100
FAX: 9714-8894813
chmesales@eaton.com

India
91-124-4683888
FAX: 91-124-4683899
cchindia@eaton.com

Australia
61-2-8787-2777
FAX: 61-2-9609-2342
CEASales@
cooperindustries.com

Korea
82-2-3484-6783
82-2-3484-6778
CCHK-sales@
cooperindustries.com

Europe (Germany)
49 (0) 6271 806-500
49 (0) 6271 806-476
sales.CCH.de@
cooperindustries.com

Mexico/Latin America/Caribbean
52-555-804-4000
FAX: 52-555-804-4020
ventascentromex@eaton.com

Singapore
65-6645-9888
FAX: 65-6297-4819
chsi-sales@
cooperindustries.com

China
86-21-2899-3600
FAX: 86-21-2899-4055
chhsales@
cooperindustries.com

Canada
Toll Free: 800-265-0502
FAX: (800) 263-9504
FAX Orders only: (866) 653-0645
crousecustomerctr@eaton.com

U.S. (global headquarters):
Eaton's Crouse-Hinds business
1201 Wolf Street
Syracuse, NY 13208
(866) 764-5454
FAX: (315) 477-5179
FAX Orders Only:
(866) 653-0640
crousecustomerctr@eaton.com

Eaton is a registered trademark.
All other trademarks are property of their respective owners.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

© 2018 Eaton
All Rights Reserved
Printed in USA
Publication No. 5326-0518
May 2018