Eaton’s automatic transfer switch (ATS) is designed to provide unmatched performance, reliability and versatility for critical standby power applications. The switches can be equipped with the ATC-300+ or ATC-800 controllers to match your application needs. A bypass isolation transfer switch may be used to provide emergency power to life safety and other critical loads where maintenance of the main transfer switch, without interruption of power to the load, is either desirable or required.

**Electrical ratings**
- Operating temperature: –20° to +70°C (–4° to +158°F).
- 100, 150, 225, 260, 400, 600, 800, 1000 and 1200A ratings
- Two-, three- or four-pole
- Up to 600 Vac, 50/60 Hz
- NEMA® 1, 3R
- UL® 1008 Listed
- CSA® C22.2 No. 178 Certified

**Unmatched performance and reliability**
- Improved safety:
  - Isolated compartments with barriers
  - Single motion rack-out with doors closed
  - Ability to test power switching elements during drawout process
- Dual ATS capability—bypass contactor can be controlled by the ATS controller in the bypass mode of operation

**Standard features**
- Drawout cassette design on ATS and fixed-mounted bypass contactor
- No service interruption in bypass to the same source
- Source available contacts:
  - Source 1 present 2NO and 2NC
  - Source 2 present 2NO and 2NC
- Switch position contacts:
  - Source 1 position 1NO and 1NC
  - Source 2 position 1NO and 1NC
- Source 1 and Source 2 sensing:
  - Undervoltage/underfrequency
  - Overvoltage/overfrequency
  - Three-phase rotation protection
  - Three-phase voltage unbalance
- Pre-transfer signal contacts 1NO and 1NC
- Go to Source 2 (Emergency)

**Optional features**
- Available UL 1449 3rd Edition surge protection device (SPD)
- Automatic transfer operation with selectable (via programming) non-automatic or automatic retransfer with fail-safe
- Space heater with thermostat
- Digital multi-function power quality metering
- Remote annunciator with control
- Modbus® communications (ATC-300+/ATC-800 controller)
- Stainless steel cover for controller
- Load sequencing contacts

Optional with ATC-800: standard with ATC-300+ controller.
Bypass isolation switch features

Front access
Front access is a standard feature. Source 1 (Normal), Source 2 (Emergency) and Load connections are selectable as all top or all bottom on the 600–1200A sizes. On the 400A or less size, the location is Source 1 top and Source 2 and Load at the bottom with suitable wire bending space for top or bottom entry. These connections are located in their own separate compartments.

Improved safety
The unique Eaton design includes separation between control and power components. The ATS and bypass isolation contactors are mounted in separate compartments with protective barriers between them. This design prevents the possibility of contact with the rear-mounted power connections to the contactors. In addition, the top and bottom entry have separate compartment doors.

Drawout ATS and fixed-mounted bypass
The ATS is designed with drawout capability. The 1200A frame uses a cassette on wheels design. The 400A frame uses a lift out contactor mounted drawout rail design. The bypass unit is designed as a fixed-mounted design in its own separate compartment.

Multi-Tap transformer
The industry-exclusive Multi-Tap system voltage selector allows the transfer switch to be applied on most system voltages by proper insertion of the selector plug.

Ease of maintenance
Transfer to the bypass power contactor is easily initiated and controlled via door-mounted controls. Once the transfer to the bypass contactor is complete, the ATS contactor is easily racked out with the compartment door closed. The ATS contactor may then be tested in the isolated position.

Ease of transfer
The Eaton design allows the operator to make a quick and simple transfer from the ATS power contactor to the bypass contactor by initiating the electrically operated transfer via a two-position switch. Door-mounted indicating lights confirm that a successful transfer has taken place.

Dual ATS capability
The controller on conventional bypass isolation switches only controls the ATS contactor. However, the Eaton design has dual ATS capability as standard. The Eaton design allows the switch controller to remain active in both the ATS and bypass modes, thus providing control to either contactor. This ability of the controller to remain active and control the bypass isolation contactor provides “N+1” redundancy of a second fully functioning ATS, a feature unique to Eaton.
### Contactor-Based Transfer Switch 100–1200A — NEMA 1 in Inches (mm) and Approximate Shipping Weight

<table>
<thead>
<tr>
<th>Switch Rating</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Normal and Emergency Terminals</th>
<th>Load Terminals</th>
<th>Neutral Terminals</th>
<th>Weight Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100–200A 480V</td>
<td>78.07 (1983.0)</td>
<td>30.00 (762.0)</td>
<td>29.30 (744.2)</td>
<td>(1) #6–350 Cu/Al</td>
<td>(1) #6–350 Cu/Al</td>
<td>(3) #6–350 Cu/Al</td>
<td>625 (283.8)</td>
</tr>
<tr>
<td>225–400A 480V</td>
<td>78.07 (1983.0)</td>
<td>30.00 (762.0)</td>
<td>29.30 (744.2)</td>
<td>(1) 3/0–600 Cu/Al</td>
<td>(1) 3/0–600 Cu/Al</td>
<td>(3) 3/0–600 Cu/Al</td>
<td>625 (283.8)</td>
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<tr>
<td>225–400A 600V</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>28.97 (735.8)</td>
<td>(2) 3/0–750 Cu/Al</td>
<td>(2) 3/0–750 Cu/Al</td>
<td>(6) 3/0–750 Cu/Al</td>
<td>1500 (703.7)</td>
</tr>
<tr>
<td>600A 480V</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>28.97 (735.8)</td>
<td>(2) 3/0–750 Cu/Al</td>
<td>(2) 3/0–750 Cu/Al</td>
<td>(6) 3/0–750 Cu/Al</td>
<td>1500 (703.7)</td>
</tr>
<tr>
<td>600A 600V</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>28.97 (735.8)</td>
<td>(4) 3/0–750 Cu/Al</td>
<td>(4) 3/0–750 Cu/Al</td>
<td>(12) 3/0–750 Cu/Al</td>
<td>1750 (794.5)</td>
</tr>
<tr>
<td>800–1200A 480V</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>28.97 (735.8)</td>
<td>(4) 3/0–750 Cu/Al</td>
<td>(4) 3/0–750 Cu/Al</td>
<td>(12) 3/0–750 Cu/Al</td>
<td>1750 (794.5)</td>
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<td>(4) 3/0–750 Cu/Al</td>
<td>(12) 3/0–750 Cu/Al</td>
<td>1750 (794.5)</td>
</tr>
</tbody>
</table>

- For seismic applications, it is necessary to use 5–13 UNC Grade or better hex head bolts and washers torqued to 50 ft-lbs.
- For NEMA 3R dimensions, add 18.29 inches (464.6 mm).
- For NEMA 3R dimensions, add 18.59 inches (472.2 mm).
Automatic Bypass Isolation Contactor-Based Transfer Switch Catalog Numbering System

**Logic**
- BI = Bypass isolation open transition
- CB = Bypass isolation closed transition

**Number of Poles**
- 2 = Two-pole
- 3 = Three-pole
- 4 = Four-pole

**Mounting**
- X = Fixed-mount bypass

**Anperes**
- 0100 = 100A
- 0150 = 150A
- 0225 = 225A
- 0260 = 260A
- 0400 = 400A
- 0600 = 600A
- 0800 = 800A
- 1000 = 1000A
- 1200 = 1200A

**Voltage**
- B = 208V, 60 Hz
- E = 600V, 60 Hz
- G = 220V, 50 Hz
- H = 380V, 50 Hz
- K = 600V, 50 Hz
- N = 401V, 50 Hz
- O = 415V, 50 Hz
- W = 240V, 60 Hz
- X = 480V, 60 Hz

**Enclosure**
- S = NEMA 1
- R = NEMA 3R

**Certification**
- U = UL 1008 Listed

**Frame**
- C3 = Three-position mechanism

**Orientation**
- C = Contactor

**Bypass Isolation Diagram**

**UL 1008 Withstand and Close-On Ratings (kA)**

<table>
<thead>
<tr>
<th>UL 1008 Rating (A)</th>
<th>480 Volts</th>
<th>600 Volts</th>
<th>Rating When Used with Upstream Fuse</th>
</tr>
</thead>
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<tr>
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<td>Any Breaker</td>
<td>Specific Breaker</td>
<td>Any Breaker</td>
</tr>
<tr>
<td>100</td>
<td>30 30 30</td>
<td>22 35</td>
<td>200 600  RK5 600</td>
</tr>
<tr>
<td>150</td>
<td>30 50</td>
<td>22 35</td>
<td>200 600  RK5 600</td>
</tr>
<tr>
<td>200</td>
<td>30 50</td>
<td>22 35</td>
<td>200 600  RK5 600</td>
</tr>
<tr>
<td>225</td>
<td>30 50</td>
<td>42 65</td>
<td>200 600  RK5 600</td>
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<tr>
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<td>50 65</td>
<td>42 65</td>
<td>200 600  L 1200</td>
</tr>
<tr>
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<td>200 600  L 1200</td>
</tr>
<tr>
<td>1000</td>
<td>50 65</td>
<td>42 65</td>
<td>200 600  L 1600</td>
</tr>
<tr>
<td>1200</td>
<td>50 65</td>
<td>42 65</td>
<td>200 600  L 1600</td>
</tr>
</tbody>
</table>