Power Series Transfer Switch
100 – 1,600 Amps
Bypass Isolation · Contactor Type · Open and Delayed Transition

- Automatic Transfer Switch
- 100 – 1,600 A, up to 600 VAC, 50/60 Hz
- 3 or 4 Poles
- NEMA 1, 3R or 4X (400 A or Below)
- Open with Inphase and Delayed Transition
- UL 1008 Listed
- CSA C22.2 No. 178 Certified

Codes and Standards
Not all codes and standards apply to all configurations. Contact factory for details.

- UL 1008 Listed
- CSA C22.2 No. 178 Certified
- NFPA 37, 70, 99, 110
- NEC 700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001, Pluses #2b, 4
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IEC 61000 EMC Testing and Measuring

Description
Generac’s Bypass Contactor Type Transfer Switches are double-throw and interlocked with an over center design to ensure safe, positive transfer between power sources. The switches are 3 cycle rated to ease breaker selection and coordination. The mechanism is field proven and operated via a reliable, compact solenoid for high speed transfer of loads between power sources. The contacts are silver composite for long life, resisting pitting or burning. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

Generac’s Bypass Contactor switches have dual ATS capability. The bypass contactor can be controlled by the transfer switch controller in the bypass mode of operation, a unique feature. Access is front on all amp ratings with top or bottom entry. Rack-out is a single motion with doors closed plus isolated, barriered compartments the safety of the user is a clear product attribute.

The microprocessor based controller is flexible with extensive programmable options. The standard product offers both open inphase and delayed transition. The 2 line – 32 character LCD displays real time and historical information with time-stamped events. The integrated plant exerciser is configurable in off, daily, 7, 14, 28 day intervals with user configurable run time. With the standard features of pre-transfer contacts, three phase sensing on utility and generator sources, phase unbalance, phase reversal, load shed/emergency inhibit and communications (Modbus® RTU).
Power Series Transfer Switch
100 – 1,600 Amps
Bypass Isolation · Contactor Type · Open and Delayed Transition

STANDARD FEATURES

GENERAL
- Fixed Design Cassette.
- Cable Entry is Top and/or Bottom, Front Access.
- Double-Throw, Solenoid-Operated Transfer Mechanism.
- Dual ATS Capability Provides “N+1” Redundancy of a Second Fully Functioning ATS.
- Mechanically Interlocked to Prevent Connection of Both Sources.
- ATC-300+ Controller
- Mimic Diagram with Source Available and Connected LED Indication.
- Time-Stamped History Log.
- System TEST Pushbutton.
- Programmable Plant Exerciser - OFF, Daily, 7, 14, 28 Day Interval Selectable Run Time 0-600 Minutes No Load/Load with Failsafe.
- Methods of Transfer Include: Open with Inphase Transition Only, Time Delay in Neutral Transition, or Inphase with a Default to Time Delay in Neutral Transfer.
- Field-Selectable Multi-Tap Transformer Panel Permits Operation on a Wide Range of System Voltages.
- Modbus® RTU.
- No Service Interruption in Bypass to the Same Source.
- Operating Temperature -4 ° to 158 °F (-20 ° to 70 °C)

VOLTAGE AND FREQUENCY SENSING
- Three Phase Under and Over Voltage Sensing on Normal and Emergency Sources, Plus Load
- Under and Over Frequency Sensing on Normal, Emergency and Load
- Three Phase Sequence Sensing for Phase Sensitive Loads
- Three Phase Voltage Unbalance and Loss Sensing

CONTACTS
- Source Available:
  - Source-1 Present, 2-N.O. and 2-N.C.
  - Source-2 Present, 2-N.O. and 2-N.C.
- Switch Position:
  - Source-1 Position, 1-N.O. and 1-N.C.
  - Source-2 Position, 1-N.O. and 1-N.C.
- Pre-Transfer Contacts:
  - 1-N.O. and 1-N.C.

CONFIGURABLE OPTIONS
- ATC-900 Controller
- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with Control
- Remote Multi-Switch Annunciator Panel with Control
- Dual Drawout
- 2 or 4 Position Selector Switch
- Transient Voltage Surge Suppression (TVSS)
- Padlockable Cover for Controller
- Padlockable Cover for Device Panel
- Selectable Retransfer
- Manual Generator Retransfer
Power Series Transfer Switch
100 – 1,600 Amps
Bypass Isolation · Contactor Type · Open and Delayed Transition

- Fixed-Mounted Bypass Contactor
- Drawout ATS Contactor Rack Out
- Front Access for Top or Bottom Entry
- Separate Doors for ATS and Bypass Compartments
- 400A Fixed Bypass
- 1,200A Fixed Bypass
- Fixed-Mounted Bypass Contactor Compartment
- Drawout ATS Contactor Cassette with Wheels Completely Removed
- Power Series
3 of 6
**Power Series Transfer Switch**

100 – 1,600 Amps

Bypass Isolation · Contactor Type · Open and Delayed Transition

**UNIT DIMENSIONS***

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**Bypass Isolation 100 – 400A, Fixed Bypass/Single Drawout**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Ampères</th>
<th>Enclosure Type (NEMA)</th>
<th>A (Height) in (mm)</th>
<th>B (Width) in (mm)</th>
<th>C (Depth) in (mm)</th>
<th>Load Side, Normal and Standby Source</th>
<th>Neutral Connection</th>
<th>Cu/Al</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>600 and Below</strong></td>
<td>100 – 200</td>
<td>1</td>
<td>78.1 (1,983)</td>
<td>30.0 (762)</td>
<td>29.3 (744)</td>
<td>(1) #6-350 MCM</td>
<td>(3) 1/0-750 MCM</td>
<td></td>
<td>1,100 (499)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>78.1 (1,983)</td>
<td>30.0 (762)</td>
<td>47.6 (1,209)</td>
<td>(1) #6-350 MCM</td>
<td>(3) 1/0-750 MCM</td>
<td></td>
<td>1,125 (510)</td>
</tr>
<tr>
<td><strong>480 and Below</strong></td>
<td>225 – 400</td>
<td>1</td>
<td>78.1 (1,983)</td>
<td>30.0 (762)</td>
<td>29.3 (744)</td>
<td>(1) 1/0-750 MCM or (2) 1/0-250 MCM</td>
<td>(3) 1/0-750 MCM</td>
<td></td>
<td>1,100 (499)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>78.1 (1,983)</td>
<td>30.0 (762)</td>
<td>47.6 (1,209)</td>
<td>(1) 1/0-750 MCM or (2) 1/0-250 MCM</td>
<td>(3) 1/0-750 MCM</td>
<td></td>
<td>1,125 (510)</td>
</tr>
<tr>
<td><strong>600</strong></td>
<td>225 – 400</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>40.0 (1,016)</td>
<td>29.0 (737)</td>
<td>(2) 1/0-750 MCM or (4) 1/0-250 MCM</td>
<td>(6) 1/0-750 MCM</td>
<td></td>
<td>1,550 (703)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.7 (2,304)</td>
<td>40.4 (1,025)</td>
<td>47.6 (1,209)</td>
<td>(2) 1/0-750 MCM or (4) 1/0-250 MCM</td>
<td>(6) 1/0-750 MCM</td>
<td></td>
<td>1,600 (726)</td>
</tr>
</tbody>
</table>

*All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.
Bypass Isolation 600 – 1,200A, Fixed Bypass/Single Drawout

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amperes</th>
<th>Enclosure Type (NEMA)</th>
<th>A (Height)</th>
<th>B (Width)</th>
<th>C (Depth)</th>
<th>Cu/Al</th>
<th>Neutral Connection</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>600 and Below</td>
<td>600</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>40.0 (1,016)</td>
<td>29.0 (737)</td>
<td>(2) 1/0-750 MCM or (4) 1/0-250 MCM</td>
<td>(6) 1/0-750 MCM or (12) 1/0-250 MCM</td>
<td>1,550 (703) 3-pole</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.7 (2,304)</td>
<td>40.4 (1,025)</td>
<td>47.6 (1,209)</td>
<td>(2) 1/0-750 MCM or (4) 1/0-250 MCM</td>
<td>(6) 1/0-750 MCM or (12) 1/0-250 MCM</td>
<td>1,600 (726) 3-pole</td>
</tr>
<tr>
<td>800 – 1,200</td>
<td>800</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>40.0 (1,016)</td>
<td>29.0 (737)</td>
<td>(4) 1/0-750 MCM or (8) 1/0-250 MCM</td>
<td>(12) 1/0-750 MCM</td>
<td>1,750 (794) 3-pole</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.7 (2,304)</td>
<td>40.4 (1,025)</td>
<td>47.6 (1,209)</td>
<td>(4) 1/0-750 MCM or (8) 1/0-250 MCM</td>
<td>(12) 1/0-750 MCM</td>
<td>1,800 (816) 3-pole</td>
</tr>
</tbody>
</table>

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Power Series Transfer Switch
100 – 1,600 Amps
Bypass Isolation · Contactor Type · Open and Delayed Transition

UNIT DIMENSIONS*

Bypass Isolation 1,600A, Dual Drawout

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amperes</th>
<th>Enclosure Type (NEMA)</th>
<th>Cu/AI</th>
<th>lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>480 V</td>
<td>1,600</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.0 (2,286)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40.0 (1,016)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40.0 (1,016)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>90.7 (2,304)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40.0 (1,016)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>58.6 (1,488)</td>
<td></td>
<td></td>
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</tbody>
</table>

UL 1008 Withstand and Closing Ratings

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>Any Breaker (0.05 sec)</th>
<th>Specific Breaker¹</th>
<th>Rating When Used with Upstream Circuit Breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>480 V Max (kA)</td>
<td>600 V Max (kA)</td>
<td>480 V Max (kA)</td>
</tr>
<tr>
<td>100</td>
<td>30</td>
<td>22</td>
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</tr>
<tr>
<td>200</td>
<td>30</td>
<td>22</td>
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<tr>
<td>400</td>
<td>30</td>
<td>42</td>
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<tr>
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<td>42</td>
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</tr>
<tr>
<td>800</td>
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<td>65</td>
</tr>
<tr>
<td>1,000</td>
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<td>42</td>
<td>65</td>
</tr>
<tr>
<td>1,200</td>
<td>50</td>
<td>42</td>
<td>65</td>
</tr>
<tr>
<td>1,600</td>
<td>50</td>
<td>–</td>
<td>65</td>
</tr>
</tbody>
</table>

¹ See specific breaker list available on GenConnect

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