Power Series Transfer Switch
100 – 1,000 Amps
Molded Case Type · Open and Delayed Transition

- Automatic Transfer Switch
- 100 – 1,000 A, up to 600 VAC, 50/60 Hz
- 2, 3 or 4 Poles
- NEMA 1, 3R, or 4X
- Open 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
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IEC 61000 EMC Testing and Measuring

Description
Generac’s Molded Case Type Transfer Switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

The internal dead front cover allows for manual operation under load with a permanently affixed handle. The full assembly is listed to UL 1008 with exceptional withstand and closing ratings.

The microprocessor-based ATS controller offers standard features of Modbus® RTU and pretransfer contacts, with three phase sensing on both sources plus load for voltage, frequency, sequencing, loss and unbalance. The mimic diagram displays source availability and connection, providing “at a glance” indication, further simplifying users interface. The controller is designed beyond industry EMC standards with a time-stamped history log. The integrated plant exerciser is configurable in off, daily, 7, 14, or 28 day intervals with user configurable run time.
Power Series Transfer Switch
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STANDARD FEATURES

GENERAL
- Double-Throw, Mechanically Interlocked Transfer Mechanism
- High Withstand and Closing Ratings
- LCD-Based Display for Programming, System Diagnostics and Help Menu Display
- Mimic Diagram with Source Available and Connected LED Indication
- Top, Bottom and Side Cable Entry
- Time-Stamped History Log
- System TEST Pushbutton
- Programmable Plant Exerciser – OFF, Daily, 7 Day Interval Selectable Run Time 0-600 Minutes No Load/Load with FailSafe
- Safe Manual Operation Under Full Load with Permanently Affixed Operating Handle
- Space Heater with Thermostat (NEMA 3R)
- Modbus® RTU
- Field Programmable Time Delays
- ATC-300+ Controller
- 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

FAST, POWERFUL AND SAFE POWER SWITCHING MECHANISM
The power panel utilizes a unidirectional gear motor mechanism. The power panel can be operated manually under a full load.

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 Signal Contacts 1-N.O. and 1-N.C.

CONFIGURABLE OPTIONS

GENERAL
- ATC-900 Controller
- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Maintenance Selector Switch
- Remote Multi-Switch Annunciator Panel with Controller
- Remote Annunciator Panel with Controller
- Transient Voltage Surge Suppression (TVSS)
- Padlockable Cover for Controller
- Padlockable Cover for Device Panel
- Emergency Inhibit
- General Alarm Indication
- Selectable Retransfer
- Manual Generator Retransfer

CAM-LOK™ QUICK CONNECT TERMINALS
- Male Receptacle, E1016 Series
- Color Coded to Industry Standard
- Hinged Thermoplastic Covers
- 100% Ground Ampacity
Components of Automatic Transfer Switches

- **Source 1 and Load Power Cable Connections**
- **Permanently Affixed Manual Transfer Handle**
  Provides Safe Manual Transfer Under Full Load
- **Power Switching Panel**
  (with Deadfront Cover Installed)
- **Source 2 Power Cable Connections**
- **Automatic Transfer Controller (ATC-300+)**
- **Customer Control Connections**
- **Transformer Panel**
  - Steps Line Power Down to 120 VAC for Logic and Electrical Operator
  - Available Multi-Tap Voltage Selector
Power Series Transfer Switch
100 – 1,000 Amps
Molded Case Type · Open and Delayed Transition

UNIT DIMENSIONS*

Molded Case Type, Open and Delayed Transition, 100 – 1,000 A

<table>
<thead>
<tr>
<th>Amperes</th>
<th>Switch Type</th>
<th>in (mm)</th>
<th>Cu/Al</th>
<th>lbs (kg)</th>
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<tbody>
<tr>
<td></td>
<td>A (Height)</td>
<td>B (Width)</td>
<td>C (Depth)</td>
<td>G (Horizontal)</td>
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<tr>
<td>100</td>
<td>HFD</td>
<td>47.5 (1213)</td>
<td>20.8 (529)</td>
<td>15.2 (387)</td>
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<td>100</td>
<td>HFD¹</td>
<td>35.6 (904)</td>
<td>20.1 (510)</td>
<td>11.3 (288)</td>
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<td>200 – 225</td>
<td>HFD¹</td>
<td>35.6 (904)</td>
<td>20.1 (510)</td>
<td>13.3 (339)</td>
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<td>200 – 225</td>
<td>HKD</td>
<td>48.0 (1219)</td>
<td>20.8 (529)</td>
<td>16.7 (423)</td>
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<tr>
<td>300</td>
<td>HKD</td>
<td>56.0 (1422)</td>
<td>20.8 (529)</td>
<td>16.7 (423)</td>
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<tr>
<td>400</td>
<td>HKD²</td>
<td>64.0 (1626)</td>
<td>25.8 (656)</td>
<td>16.7 (423)</td>
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<tr>
<td>400</td>
<td>HLD</td>
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<tr>
<td>600</td>
<td>HLD</td>
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<td>16.7 (423)</td>
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<tr>
<td>600 (Four-pole)</td>
<td>NB</td>
<td>76.7 (1949)</td>
<td>25.8 (656)</td>
<td>17.8 (451)</td>
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<tr>
<td>800</td>
<td>HMLD</td>
<td>76.7 (1949)</td>
<td>25.8 (656)</td>
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<td>HNB</td>
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<td>25.8 (656)</td>
<td>17.8 (451)</td>
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</table>

1 Applies to three phase (208/120) and single phase (240/120 or 208/120) voltage configurations with ATC-300+ controller only
2 Applies to 2-pole single phase (240/120 or 208/120) voltage configurations with ATC-300+ controller only

UL 1008 Withstand and Closing Ratings

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>3-Cycle Rating (kA)</th>
<th>Rating when Used with Upstream Fuse</th>
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<tr>
<td>240 V</td>
<td>480 V</td>
<td>600 V (kA)</td>
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<tr>
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<td>65</td>
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<tr>
<td>200</td>
<td>100</td>
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<td>225</td>
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<tr>
<td>300</td>
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<tr>
<td>400</td>
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<td>65</td>
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<tr>
<td>600³</td>
<td>100</td>
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<tr>
<td>800³</td>
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<td>50</td>
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<tr>
<td>1,000³</td>
<td>65</td>
<td>50</td>
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</table>

³ Four-pole units rated at 35 kA

* 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. Contact factory for dimensions on Cam-Lok™ option switches