Automatic Transfer Switch
100 – 1200 amp, up to 600VAC, 50/60 Hz
3 or 4 poles
NEMA 1,3R, or 4x
Open with Inphase and Delayed Transition
UL1008 Listed
CSA C22.2 No. 178 Certified

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 power 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 with 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 pretransfer contacts, 3 phase sensing on utility and generator sources, phase unbalance, phase reversal, load shed/emergency inhibit and communications (Modbus® RTU).

CODES AND STANDARDS:
UL1008 Listed
NFPA 70, 99, 110, 37
NEC 700, 701, 702, 708
ISO9001, 8528, 3046, 7637, Pluses #2b, 4
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41
IEC 61000 EMC Testing & Measuring
CSA C22.2 No. 178 Certified
Bypass Isolation, Contactor Type, Open and Delayed Transition

STANDARD FEATURES:

- Fixed design cassette
- Entry is Top and/or Bottom
- Double-throw, solenoid-operated transfer mechanism
- Mechanically interlocked to prevent connection of both sources
- LCD-based display for programming, system diagnostics and Help Menu display
- 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 in-phase transition only, time delay in neutral transition, or in-phase 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

VOLTAGE AND FREQUENCY SENSING:

- 3-Phase under and over voltage sensing on normal and emergency sources, plus load
- Under and over frequency sensing on normal, emergency, and load
- 3-Phase sequence sensing for phase sensitive loads
- 3-Phase voltage unbalance and loss sensing

CONTACTS:

- Source available:
  - Source-1 Present, 2-N.O. & 2 N.C.
  - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
  - Source-1 Position, 1-N.O. & 1-N.C.
  - Source-2 Position, 1-N.O. & 1-N.C.
- Pre Transfer Contacts: 1-N.O. & 1-N.C.

OPTIONAL FEATURES:

- ATC-900
- Digital Multi-function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with control
- Remote Multi Switch Annunciator Panel with control
- Dual Draw out
- 2 or 4 Position Selector Switch
- TVSS
- Stainless steel cover for controller
- Selectable Retransfer
- Manual Generator Retransfer
Bypass Isolation, Contactor Type, Open and Delayed Transition

- Fixed-Mounted Bypass Contactor
- Drawout ATS Contactor Rack Out
- Drawout ATS Contactor
- Fixed-Mounted Bypass Contactor Compartment
- Front Access for Top or Bottom Entry
- Separate Doors for ATS and Bypass Compartments
- 400A Fixed Bypass
- 1200A Fixed Bypass

**UL 1008 WITHSTAND AND CLOSE-ON RATINGS AS LISTED (kA):**

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>480V Any Breaker</th>
<th>480V Specific Breaker</th>
<th>600V Any Breaker</th>
<th>600V Specific Breaker</th>
<th>Rating When Used with Upstream Fuse Rating (kA)</th>
<th>Test Voltage</th>
<th>Fuse Type</th>
<th>Maximum Fuse Amperes</th>
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</thead>
<tbody>
<tr>
<td>100</td>
<td>30</td>
<td>50</td>
<td>22</td>
<td>35</td>
<td>100</td>
<td>480</td>
<td>RK5</td>
<td>200</td>
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<tr>
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<td>50</td>
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<td>35</td>
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<td>600</td>
<td>RK5</td>
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<td>1600</td>
</tr>
</tbody>
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Bypass Isolation, Contactor Type, Open and Delayed Transition

Unit Dimensions:

Bypass Isolation Transfer Switches, 100–400A, Fixed Bypass/Single Draw Out
(Consult factory for dual drawout)

Note: Source 1 Normal, Source 2 Emergency and load connections are NOT factory or field reconfigurable.

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>Enclosure</th>
<th>Standard Terminals</th>
<th>Weight in Lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height A</td>
<td>Width B</td>
<td>Depth C</td>
</tr>
<tr>
<td>100–200 at 480/600V</td>
<td>78.07 (1983.0)</td>
<td>30.00 (762.0)</td>
<td>29.30 (744.2)</td>
</tr>
<tr>
<td>225–400 at 480V</td>
<td>78.07 (1983.0)</td>
<td>30.00 (762.0)</td>
<td>29.30 (744.2)</td>
</tr>
</tbody>
</table>

1 For NEMA 3R, add 15.48 inches (393.2 mm) to depth.

* 400A, 600V configurations use 600–1200 amp dimensions
Bypass Isolation, Contactor Type, Open and Delayed Transition

**Unit Dimensions:**

**Bypass Isolation Transfer Switches, 600–1200A, Fixed Bypass/Single Draw Out**

(Consult factory for dual drawout)

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<th>Standard Terminals</th>
<th>Weight in Lbs (kg)</th>
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<tbody>
<tr>
<td>600–1200A²³</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>28.99 (736.3)</td>
</tr>
<tr>
<td>600–1200A²²</td>
<td>90.00 (2286.0)</td>
<td>40.00 (1016.0)</td>
<td>44.47 (1129.5)</td>
</tr>
</tbody>
</table>

¹ NEMA 3R dimensions. If seismic mounting brackets are required, then the width will be 46.00 inches (1168.4 mm).

² Utilized for 400A, 600V configurations.