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

Image used for illustration purposes only

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

IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

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, barrier 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 pre-transfer contacts, three phase sensing on utility and generator sources, phase unbalance, phase reversal, load shed/emergency inhibit and communications (Modbus® RTU).

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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

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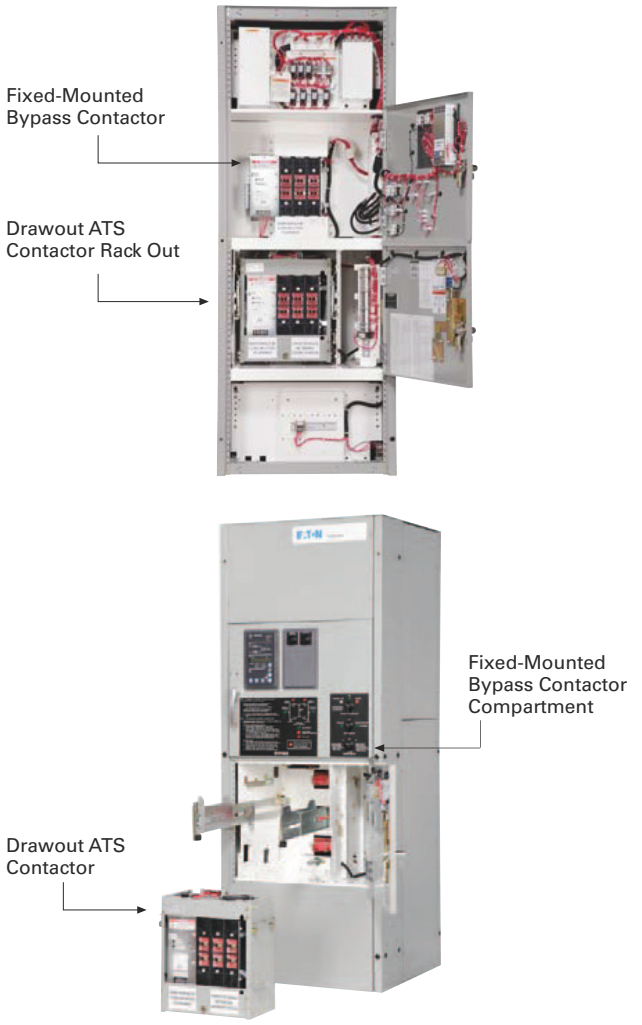
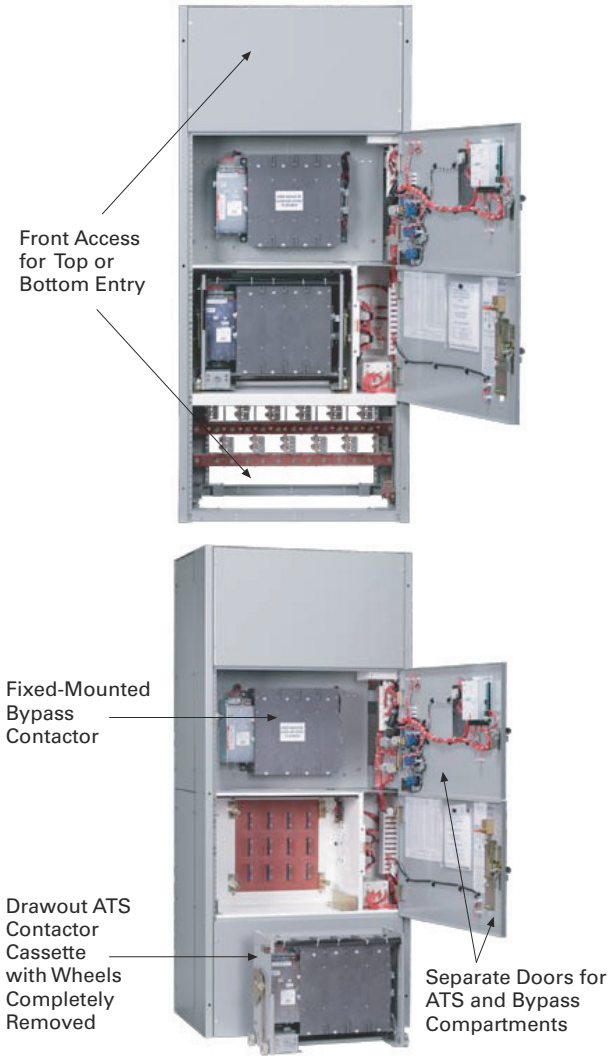


400A Fixed Bypass



1,200A Fixed Bypass

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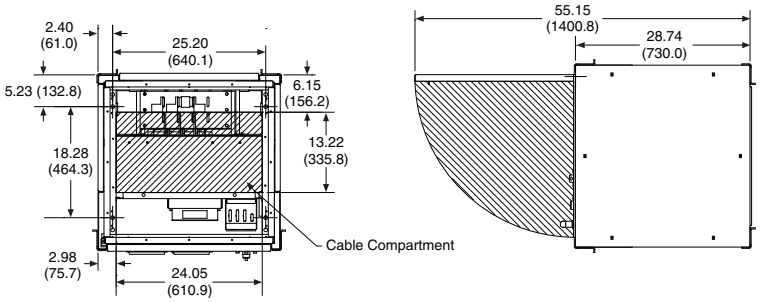
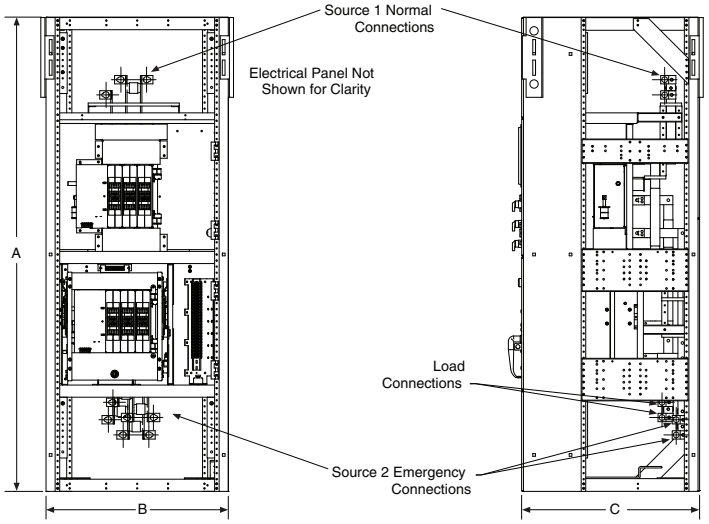
Bypass Isolation · Contactor Type · Open and Delayed Transition

UNIT DIMENSIONS*





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

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

Voltage	Amperes	Enclosure Type (NEMA)	in (mm)			Cu/Al		lbs (kg)
			A (Height)	B (Width)	C (Depth)	Load Side, Normal and Standby Source	Neutral Connection	Weight
600 and Below	100 – 200	1	78.1 (1,983)	30.0 (762)	29.3 (744)	(1) #6-350 MCM	(3) 1/0-750 MCM	1,300 (590) 3-pole 1,365 (617) 4-pole
		3R	78.1 (1,983)	30.0 (762)	47.6 (1,209)	(1) #6-350 MCM	(3) 1/0-750 MCM	1,550 (703) 3-pole 1,650 (748) 4-pole
480 and Below	225 – 400	1	78.1 (1,983)	30.0 (762)	29.3 (744)	(1) 1/0-750 MCM or (2) 1/0-250 MCM	(3) 1/0-750 MCM	1,300 (590) 3-pole 1,365 (617) 4-pole
		3R	78.1 (1,983)	30.0 (762)	47.6 (1,209)	(1) 1/0-750 MCM or (2) 1/0-250 MCM	(3) 1/0-750 MCM	1,550 (703) 3-pole 1,650 (748) 4-pole
600	225 – 400	1	90.0 (2,286)	40.0 (1,016)	29.0 (737)	(2) 1/0-750 MCM or (4) 1/0-250 MCM	(6) 1/0-750 MCM or (12) 1/0-250 MCM	1,550 (703) 3-pole 1,600 (726) 4-pole
		3R	90.7 (2,304)	40.4 (1,025)	47.6 (1,209)	(2) 1/0-750 MCM or (4) 1/0-250 MCM	(6) 1/0-750 MCM or (12) 1/0-250 MCM	1,600 (726) 3-pole 1,650 (748) 4-pole

* 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.

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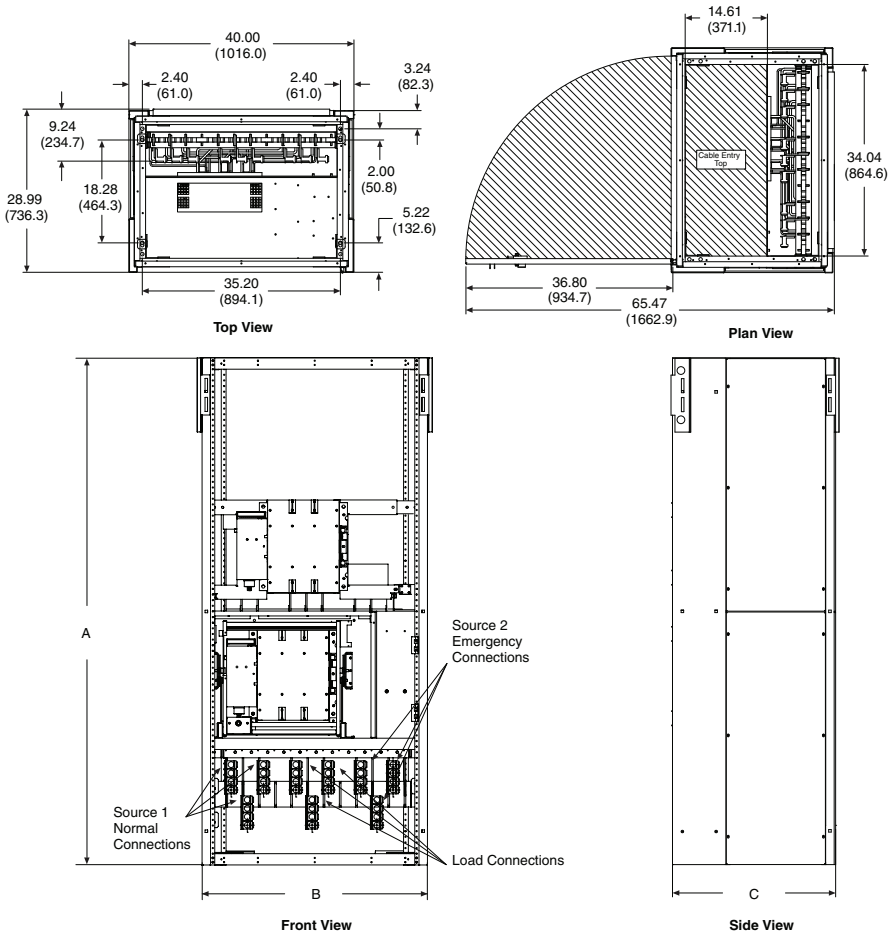
Bypass Isolation · Contactor Type · Open and Delayed Transition

UNIT DIMENSIONS*



Bypass Isolation 600 – 1,200A, Fixed Bypass/Single Drawout

Voltage	Amperes	Enclosure Type (NEMA)	in (mm)			Cu/Al		lbs (kg)
			A (Height)	B (Width)	C (Depth)	Load Side, Normal and Standby Source	Neutral Connection	Weight
600 and Below	600	1	90.0 (2,286)	40.0 (1,016)	29.0 (737)	(2) 1/0-750 MCM or (4) 1/0-250 MCM	(6) 1/0-750 MCM or (12) 1/0-250 MCM	1,780 (703) 3-pole 1,820 (825) 4-pole
		3R	90.7 (2,304)	40.4 (1,025)	47.6 (1,209)	(2) 1/0-750 MCM or (4) 1/0-250 MCM	(6) 1/0-750 MCM or (12) 1/0-250 MCM	1,850 (839) 3-pole 1,890 (857) 4-pole
	800 – 1,200	1	90.0 (2,286)	40.0 (1,016)	29.0 (737)	(4) 1/0-750 MCM or (8) 1/0-250 MCM	(12) 1/0-750 MCM	1,900 (862) 3-pole 1,965 (891) 4-pole
		3R	90.7 (2,304)	40.4 (1,025)	47.6 (1,209)	(4) 1/0-750 MCM or (8) 1/0-250 MCM	(12) 1/0-750 MCM	2,035 (923) 3-pole 2,100 (952) 4-pole

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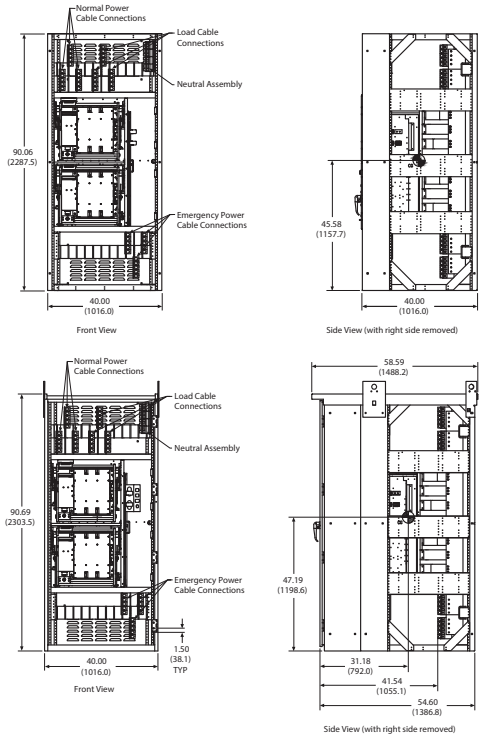
Bypass Isolation · Contactor Type · Open and Delayed Transition

UNIT DIMENSIONS*



Bypass Isolation 1,600A, Dual Drawout

Voltage	Amperes	Enclosure Type (NEMA)	in (mm)			Cu/Al		lbs (kg)
			A (Height)	B (Width)	C (Depth)	Load Side, Normal and Standby Source	Neutral Connection	Weight
480	1,600	1	90.0 (2,286)	40.0 (1,016)	40.0 (1,016)	(5) 1/0-750 MCM or (10) 1/0-250 MCM	(16) 1/0-750 MCM	2,170 (984) 3-pole 2,425 (1,100) 4-pole
		3R	90.7 (2,304)	40.0 (1,016)	58.6 (1,488)	(5) 1/0-750 MCM or (10) 1/0-250 MCM	(16) 1/0-750 MCM	2,526 (1,146) 3-pole 2,800 (1,027) 4-pole

UL 1008 Withstand and Closing Ratings

Ampere Rating	Any Breaker (0.05 sec)		Specific Breaker[1]		Rating When Used with Upstream Circuit Breaker			
	480 V Max (kA)	600 V Max (kA)	480 V Max (kA)	600 V Max (kA)	Rating (kA)	Test Voltage	Fuse Type	Maximum Fuse Amperes
100	30	22	50	35	100	480	RK5	200
200	30	22	50	35	100	600	RK5	400
400	30	42	50	68	200	600	RK5	600
600	50	42	65	65	200	600	L	1,200
800	50	42	65	65	200	600	L	1,200
1,000	50	42	65	65	200	600	L	1,600
1,200	50	42	65	65	200	600	L	1,600
1,600	50	–	65	–	200	480	L	2,000

[1] See specific breaker list available on GenConnect

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