GENERAC® | INDUSTRIAL POWER

Bypass Isolation Contactor Type Open and Delayed Transition

Power Series Transfer Switch

100-1200 Amps

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

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
- Seismic: IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)
- IEC 61000 EMC Testing & Measuring
- 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).

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

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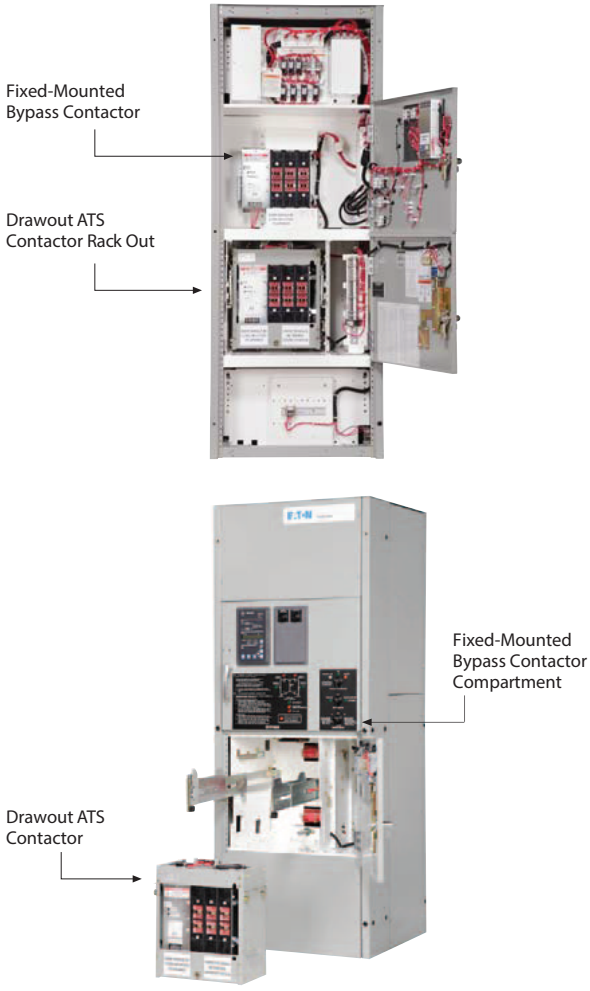
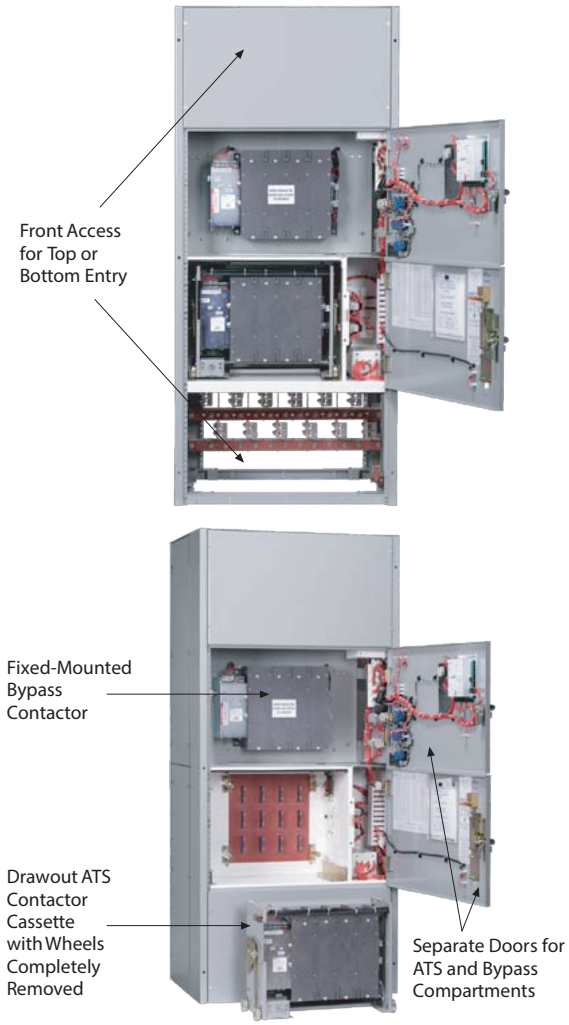


400A Fixed Bypass



1200A Fixed Bypass

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

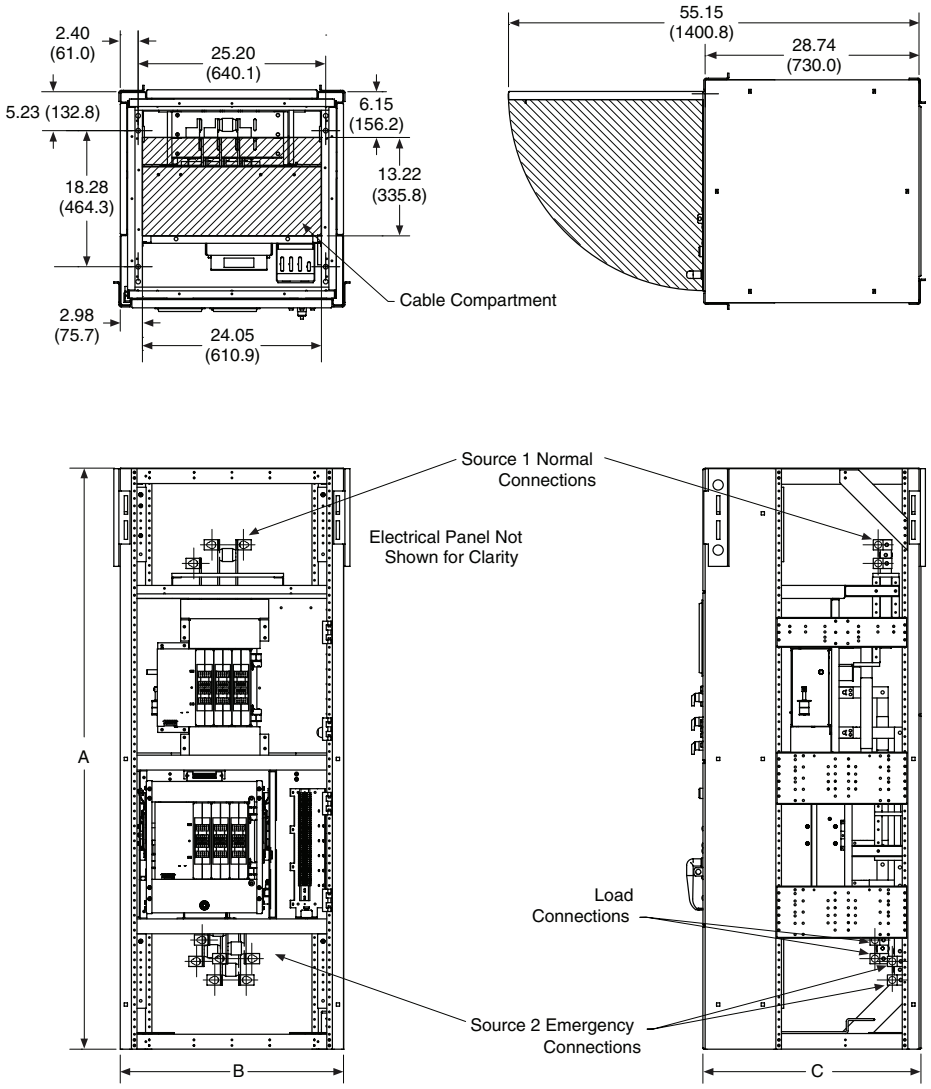
	480V	480V	600V	600V	Rating When Used with Upstream Fuse			
Ampere Rating	Any Breaker	Specific Breaker	Any Breaker	Specific Breaker	Rating (kA)	Test Voltage	Fuse Type	Maximum Fuse Amperes
100	30	50	22	35	100	480	RK5	200
200	30	50	22	35	100	600	RK5	400
400	30	50	42	65	200	600	RK5	600
600	50	65	42	65	200	600	L	1200
800	50	65	42	65	200	600	L	1200
1000	50	65	42	65	200	600	L	1600
1200	50	65	42	65	200	600	L	1600

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.

Bypass Isolation NEMA 1 and NEMA 3R
Dimensions in Inches (mm)

Ampere Rating	Enclosure			Standard Terminals			Weight in Lbs (kg)
	Height A	Width B	Depth[1] C	Normal and Emergency	Load	Neutral	
100–200 at 480/600V	78.07 (1983.0)	30.00 (762.0)	29.30 (744.2)	(1) #6–350 MCM	(1) #6–350 MCM	(3) #6–350 MCM	625 (284)
225–400 at 480V	78.07 (1983.0)	30.00 (762.0)	29.30 (744.2)	(1) 3/0–750 MCM	(1) 3/0–750 MCM	(1) 3/0–750 MCM	625 (284)

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

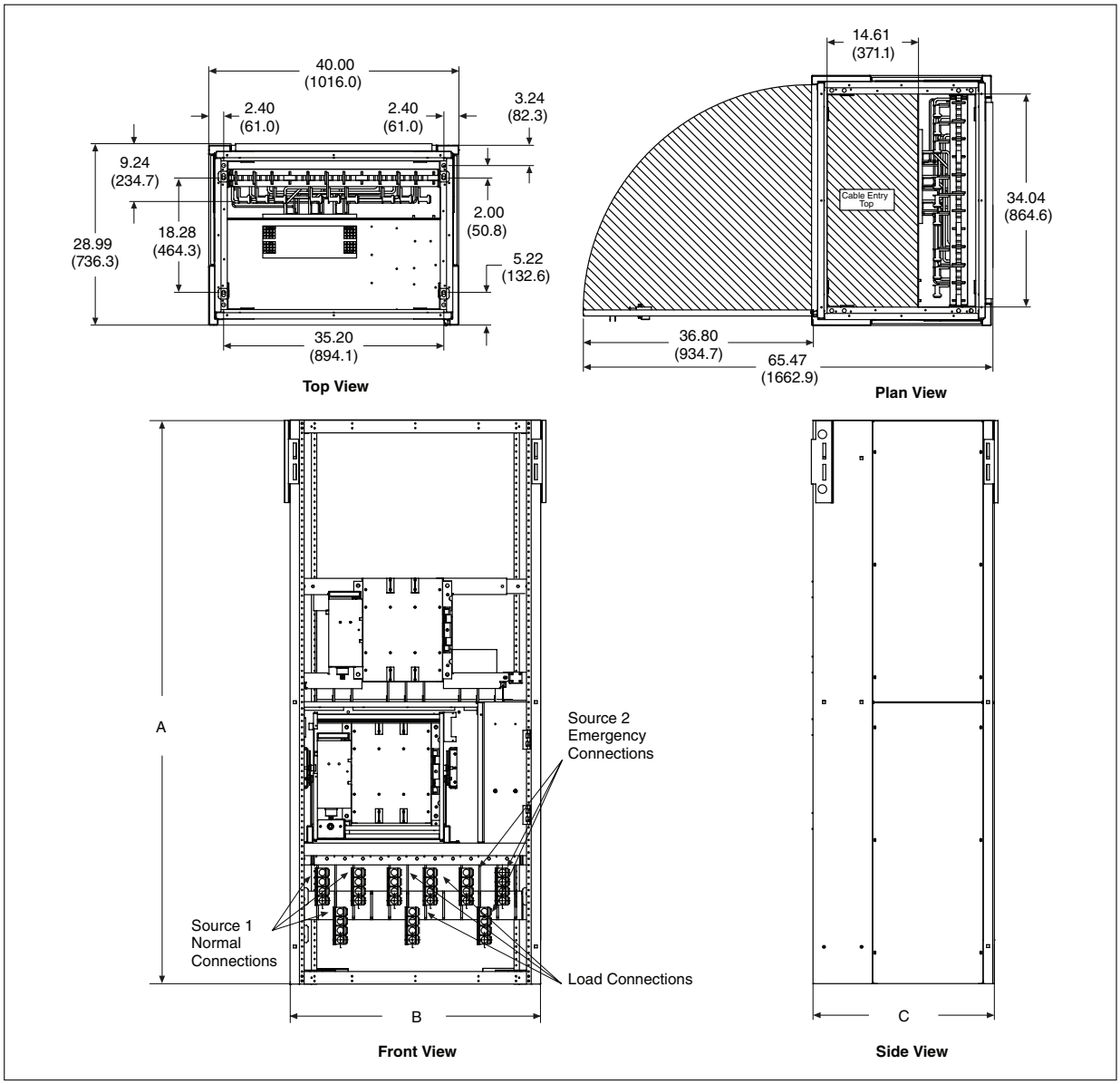
** 400A, 600V configurations use 600–1200 amp dimensions*

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)



Bypass Isolation Contactor NEMA 1 and NEMA 3R

Dimensions in Inches (mm)

Ampere Rating	Enclosure			Standard Terminals			Weight in Lbs (kg)
	Height A	Width B	Depth[1] C	Normal and Emergency	Load	Neutral	
600–1200[1&2]	90.00 (2286.0)	40.00 (1016.0)	28.99 (736.3)	(2) 3/0–750 MCM	(2) 3/0–750 MCM	(12) 3/0–750 MCM	1800 (817) NEMA 1
600–1200[1&2]	90.00 (2286.0)	40.00 (1016.0)	44.47 (1129.5)	(2) 3/0–750 MCM	(2) 3/0–750 MCM	(12) 3/0–750 MCM	1850 (840) NEMA 3R

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.