

Power Series Transfer Switch

2,000 – 5,000 Amps

Power Frame Type · Open and Delayed Transition

- Automatic Transfer Switch
- 2,000 – 5,000 A, Up to 600 VAC, 50/60 Hz
- 3 or 4 Poles
- NEMA 1 or 3R
- 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 Power Frame Type Transfer Switch has exceptional 3-cycle withstand and close on ratings along with high speed switching time of < 3 cycles to minimize the effect of power disturbances. The switching mechanism is enabled for safe manual transfer under load. The Power Frame switch has a standard offering of open transition with inphase or delayed transition with numerous programmable transition timings for transfer and retransfer. With a fully rated 4th pole operating on a common crossbar, the Power Frame switch eliminates the typical problems with a 3-pole overlapping neutral design.

With integral contact wear indication, preventative maintenance can be scheduled when convenient for the user ensuring maximum uptime. System parameters can be uploaded with a USB drive in moments, minimizing installation time.

The control's 4.3 inch color display and mimic bus diagram simplifies programming, routine operation, data presentation, and setting adjustments. The intuitive, grouped data screens along with the supervisory and highly customizable data acquisition allow the user to configure to their needs. Standard features include Modbus® RTU, extensive user customizable input/outputs, 450 event log with capture for the most recent 12 events, with three phase sensing on both sources, plus load for voltage, frequency, sequencing, loss, and unbalance.

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STANDARD FEATURES

GENERAL

- High Withstand and Closing Ratings
- Safe Manual Transfer Under Load
- Front Access
- Cable or Bus Entry is Top, Bottom or Both
- Isolated Compartments for Improved Safety
- Mimic Diagram with Source Available and Connected LED Indication
- Event Logging and Recording 450 Time-Stamped Events
- System TEST Pushbutton
- Programmable Plant Exerciser
- Field-Selectable Multi-Tap Transformer Panel Permits Operation on a Wide Range of System Voltages
- Modbus® RTU
- ATC-900 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

CONTACTS

- Source Available:
 - Source-1 Present, 1-N.O. and 1-N.C.
 - Source-2 Present, 1-N.O. and 1-N.C.
- Switch Position:
 - Source-1 Position, 1-N.O. and 1-N.C.
 - Source-2 Position, 1-N.O. and 1-N.C.

STANDARD CONTROL PARAMETERS AVAILABLE

- Up to 20 Available with Expandable Input/Output Modules

CONTROL INPUTS (4 STANDARD)

- Monitor Mode
- Bypass Timers
- Lockout
- Manual Retransfer On/Off
- Manual Retransfer
- Slave In
- Remote Engine Test
- Preferred Source Selection
- Go to Emergency
- Emergency Inhibit
- Go to Neutral

CONTROL OUTPUTS (4 STANDARD)

- Load Sequence
- Selective Load Shed
- Load Bank Control
- Pre/Post-Transfer
- Pre-Transfer
- User Remote Control
- Source 1 Available (Standard)
- Source 2 Available (Standard)
- Source 1 Connected
- Source 2 Connected
- ATS Not in Automatic
- General Alarm
- ATS in Test
- Engine Test Aborted
- Cooldown in Process
- Engine Start Contact Status
- Generator 1 Start Status
- Generator 2 Start Status
- Emergency Inhibit On

CONFIGURABLE OPTIONS

GENERAL

- Drawout Construction
- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with Control
- Remote Multi-Switch Annunciator Panel with Control
- 2 or 4 Position Selector Switch
- Transient Voltage Surge Suppression (TVSS)
- Selectable Retransfer
- Manual Generator Retransfer

CAM-LOK™ QUICK CONNECT TERMINALS

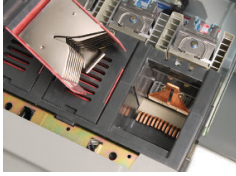
- Male Receptacle, E1016 Series
- Color Coded to Industry Standard
- Hinged Thermoplastic Covers
- 100% Ground Ampacity

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Contact Wear Indication



Drawout Power Case
Switch or Breaker
is Optional



ATC-900
Controller



Source 1

Source 2

Keyed Switch for Service Entrance Option

Multi-Tap Transformer

2,000A Drawout

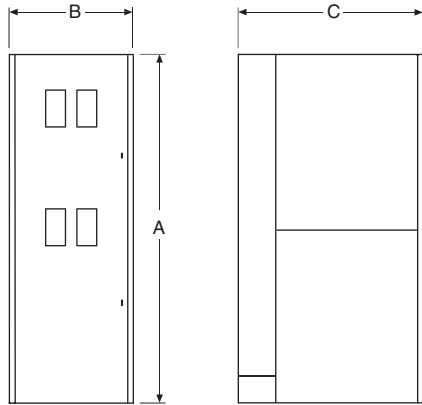
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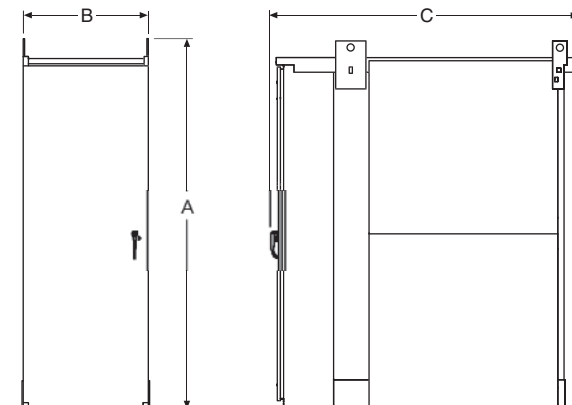
Power Frame Type · Open and Delayed Transition

UNIT DIMENSIONS*

2,000 3,200A Fixed-Mount NEMA 1



2,000 3,200A Fixed-Mount NEMA 3R



Seismic mounting brace adds an additional 3 inches to each side - front, left and front right side, and an additional 3 inches to the rear side.

Fixed-Mount Open with Inphase or Delayed Transition

Amperes	Poles	Enclosure Type (NEMA)	in (mm)			Cu/Al		lbs (kg)
			A (Height)	B (Width)	C (Depth)	Load Side, Normal and Standby Source	Neutral Connection	Weight
2,000	3	1	90.0 (2,286)	32.0 (812)	48.0 (1,219)	(6) 1/0-750 MCM	(24) 4/0-500 MCM	1,050 (477)
		3R	90.0 (2,286)	32.0 (812)	63.0 (1,600)	(6) 1/0-750 MCM	(24) 4/0-500 MCM	1,600 (727)
	4	1	90.0 (2,286)	32.0 (812)	48.0 (1,219)	(6) 1/0-750 MCM	–	1,250 (568)
		3R	90.0 (2,286)	32.0 (812)	63.0 (1,600)	(6) 1/0-750 MCM	–	1,800 (818)
2,500 – 3,200	3	1	90.0 (2,286)	44.0 (1,117)	48.0 (1,219)	(9) 1/0-750 MCM	(36) 4/0-500 MCM	1,900 (864)
		3R	90.0 (2,286)	44.0 (1,117)	63.0 (1,600)	(9) 1/0-750 MCM	(36) 4/0-500 MCM	2,400 (1,091)
	4	1	90.0 (2,286)	44.0 (1,117)	48.0 (1,219)	(9) 1/0-750 MCM	–	2,000 (909)
		3R	90.0 (2,286)	44.0 (1,117)	63.0 (1,600)	(9) 1/0-750 MCM	–	2,500 (1,136)

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Contact a Generac Power Systems Industrial Dealer for detailed installation drawings. Contact factory for dimensions on Cam-Lok™ option switches.

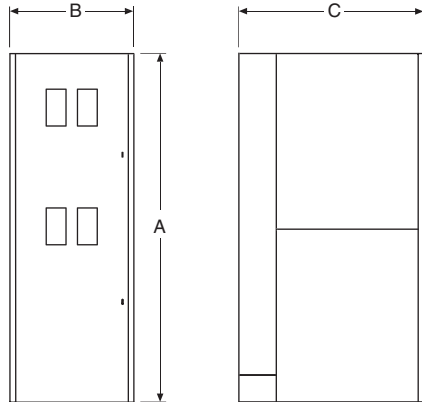
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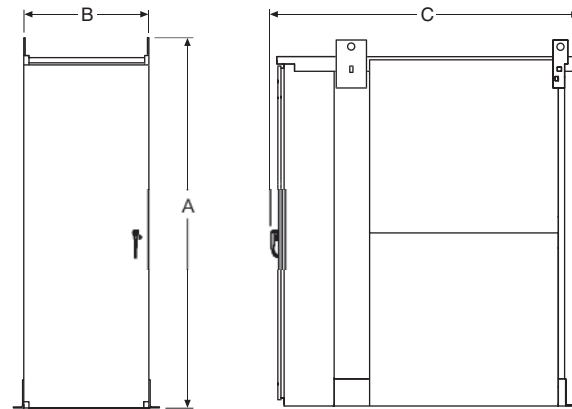
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UNIT DIMENSIONS*

2,000 3,200A Drawout NEMA 1



2,000 3,200A Drawout NEMA 3R



Seismic mounting brace adds an additional 3 inches to each side - front left and front right side and 3 inches additional to rear side

Drawout Open with Inphase or Delayed Transition

Amperes	Poles	Enclosure Type (NEMA)	in (mm)			Cu/Al		lbs (kg)
			A (Height)	B (Width)	C (Depth)	Load Side, Normal and Standby Source	Neutral Connection	Weight
2,000	3	1	90.0 (2,286)	32.0 (812)	60.0 (1,524)	(6) 1/0-750 MCM	(24) 4/0-500 MCM	1,600 (727)
		3R	90.0 (2,286)	32.0 (812)	75.0 (1,905)	(6) 1/0-750 MCM	(24) 4/0-500 MCM	2,100 (955)
	4	1	90.0 (2,286)	32.0 (812)	60.0 (1,524)	(6) 1/0-750 MCM	–	1,900 (864)
		3R	90.0 (2,286)	32.0 (812)	75.0 (1,905)	(6) 1/0-750 MCM	–	2,400 (1,091)
2,500 – 3,200	3	1	90.0 (2,286)	44.0 (1,117)	60.0 (1,524)	(9) 1/0-750 MCM	(36) 4/0-500 MCM	2,500 (1,136)
		3R	90.0 (2,286)	44.0 (1,117)	75.0 (1,905)	(9) 1/0-750 MCM	(36) 4/0-500 MCM	3,000 (1,364)
	4	1	90.0 (2,286)	44.0 (1,117)	60.0 (1,524)	(9) 1/0-750 MCM	–	2,800 (1,273)
		3R	90.0 (2,286)	44.0 (1,117)	75.0 (1,905)	(9) 1/0-750 MCM	–	3,300 (1,500)

For 4,000 and 5,000 A dimensions, please contact factory

³ UL 1008 Withstand and Closing Ratings

Ampere Rating	Rating When Used with Upstream Circuit Breaker	
	3 Cycle 600 V (kA)	30 Cycle ² 600 V (kA)
2,000	100	85
2,500	100	85
3,000	100	85
3,200	100	85
4,000	100	85
5,000	–	85 ¹

¹ UL 1066 short-time withstand rating

² Ratings used for coordination with upstream breakers with short-time ratings

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