

Open and Delayed Transition Contactor Type

Power Series Transfer Switch

100-1600 Amps



Automatic Transfer Switch
 100 – 1600 amp, up to 600VAC, 50/60 Hz
 2, 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 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.

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 unbalance, phase reversal, load shed/emergency inhibit and communications (Modbus® RTU).

Power Series, Open and Delayed Transition, Contactor Type

STANDARD FEATURES:

- Double-throw, solenoid-operated transfer mechanism
- 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
- Mechanically interlocked to prevent connection of both sources
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Modbus® RTU

VOLTAGE AND FREQUENCY SENSING:

- 3-Phase under and over voltage sensing on normal and emergency sources
- Under and over frequency sensing on normal and emergency
- Selectable settings: single or three phase voltage sensing on normal, emergency and load 50 or 60Hz
- Phase sequence sensing for phase sensitive loads

CONTACTS:

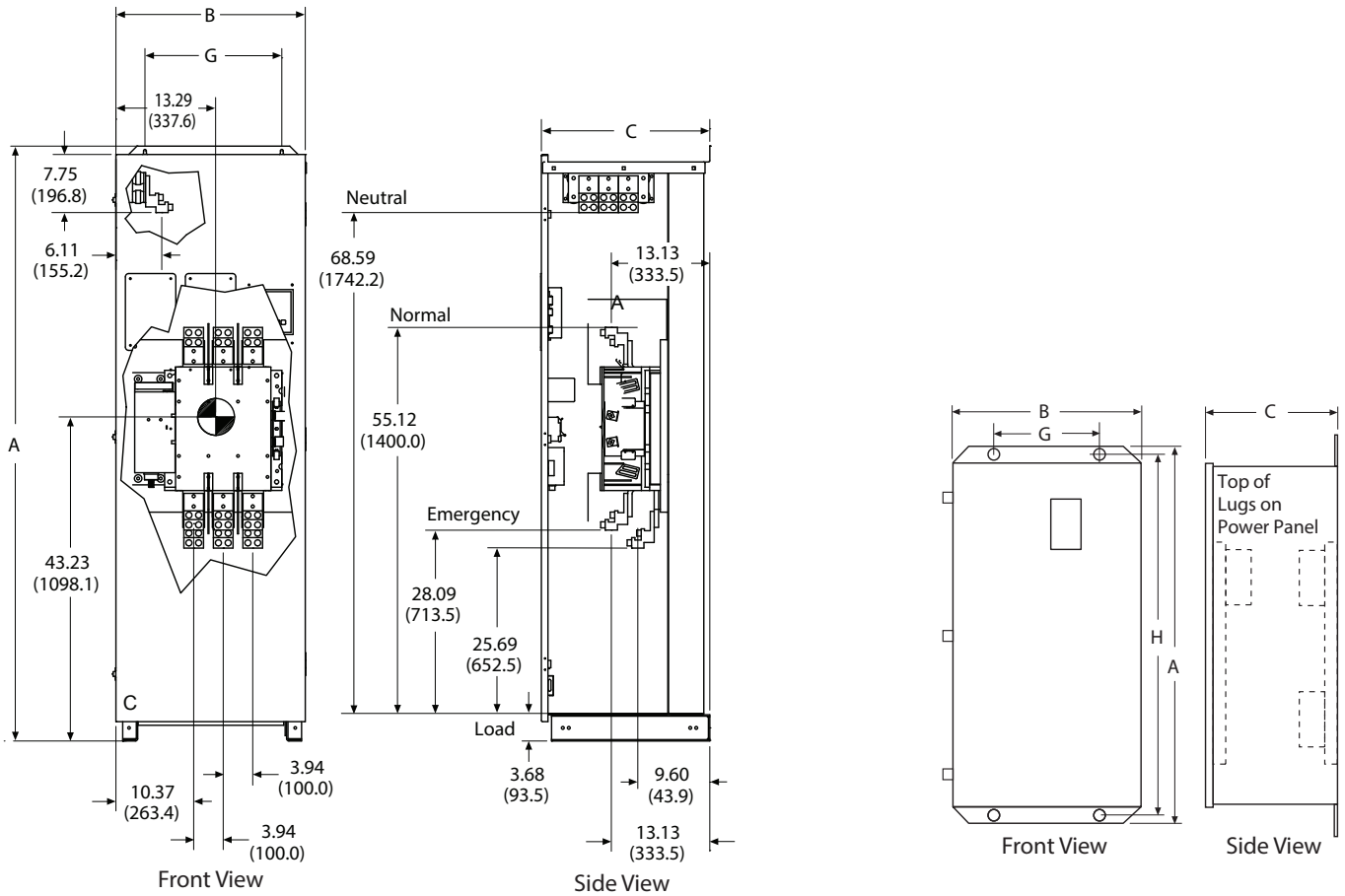
- Source available:
 - Source-1 Present, 2-N.O. & 2 N.C.
 - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
 - Source-1 Position, 1-N.O. & 1-N.C.
 - Source-2 Position, 1-N.O. & 1-N.C.
- Pre Transfer Signal Contacts 1-N.O. & 1-N.C.

OPTIONAL FEATURES:

- ATC-900
- Digital Multi-function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with control
- Remote Multi Switch Annunciator Panel with control
- Maintenance Selector Switch
- General Alarm Indication
- Additional contacts
- TVSS
- Stainless steel cover for controller
- Emergency Inhibit
- Selectable Retransfer
- Manual Generator Retransfer
- Space Heater with Thermostat

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CONTACTOR-BASED TRANSFER SWITCH 100-1600 OPEN AND DELAYED



Automatic, 600–1200A Open and Delayed Transition

Automatic, Open Transition with Inphase up to 400A Wallmount Outline NEMA 1 and NEMA 3R

UNIT DIMENSIONS: 480 V

Amperes	Transition	Enclosure	A		C	G	H		Normal and Standby Source	Neutral Connection	Weight
			Height	Width			Horizontal	Vertical			
100	Open with Inphase	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)		(1) #14-2/0	(3) #14-1/0	156 (71)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)		(1) #14-2/0	(3) #14-1/0	156 (71)
200	Open with Inphase	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)		(1) #6-250 kcmil	(3) 1/0-250 kcmil	164 (74)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)		(1) #6-250 kcmil	(3) 1/0-250 kcmil	164 (74)
225-400	Open with Inphase	N1, N12, N3R	52.00 (1321.0)	19.81 (503.0)	16.75 (425.0)	13.00 (330.0)	47.84 (1215.1)		(2) 3/0-250 kcmil or (1) 3/0-600 kcmil	(6) 250-500 kcmil	260 (118)
100-400	Open with Inphase or Delayed	N4X	52.00 (1321.0)	21.00 (533.0)	16.75 (425.0)	15.00 (381.0)	50.75 (1289.0)		(2) 3/0-250 kcmil or (1) 3/0-600 kcmil	(6) 250-500 kcmil	260 (118)
600-1200	Open with Inphase or Delayed	N1, N3R	79.41 (2017.0)	25.25 (641.4) 3-pole 29.19 (741.4) 4-pole	22.46 (570.5)	N/A	N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	600 (272) 3-pole 650 (295) 4-pole
		N12, N4X	84.75 (2152.7)	29.00 (737.0) 3-pole 29.00 (737.0) 4-pole	24.26 (616.0)	N/A	N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	700 (318) 3-pole 750 (340) 4-pole
1600 A	Open with Inphase or Delayed	N1	90.00 (2286.0)	40.00 (1016.0)	29.00 (736.6)		N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	730 (331) 3-pole 780 (354) 4-pole
		N3R	90.72 (2304.3)	40.35 (1024.9)	47.59 (1208.8)	N/A	N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	780 (354) 3-pole 830 (377) 4-pole

600 V

Amperes	Transition	Enclosure	A		C	G	H		Normal and Standby Source	Neutral Connection	Weight
			Height	Width			Horizontal	Vertical			
100	Open with Inphase	N1, N12, N3R	38.68 (982.5)	18.31 (465.1)	13.34 (338.8)	10.25 (260.4)	37.38 (949.5)		(1) #14-2/0	(3) #14-1/0	164 (74)
		N4X	37.50 (952.5)	17.50 (444.5)	14.34 (364.2)	11.50 (292.1)	36.25 (920.8)		(1) #14-2/0	(3) #14-1/0	164 (74)
200	Open with Inphase or Delayed	N1, N12, N3R	52.00 (1321.0)	19.81 (503.0)	16.75 (425.0)	13.00 (330.0)	47.84 (1215.1)		(1) #6-250 kcmil	(3) 1/0-250 kcmil	260 (118)
		N4X	52.00 (1321.0)	21.00 (533.0)	16.75 (425.0)	15.00 (381.0)	50.75 (1289.0)		(1) #6-250 kcmil	(3) 1/0-250 kcmil	260 (118)
225-1200	Open with Inphase or Delayed	N1, N3R	79.41 (2017.0)	29.19 (741.4)	22.46 (570.5)	N/A	N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	600 (272) 3-pole 650 (295) 4-pole
		N12, N4X	84.75 (2152.7)	29.00 (737.0) 3-pole 29.00 (737.0) 4-pole	24.26 (616.0)	N/A	N/A		(4) 1/0-750 kcmil	(12) 1/0-750 kcmil	700 (318) 3-pole 750 (340) 4-pole

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UL 1008 Withstand and Close on Ratings as Listed:

Ampere Rating	Transition	480 V		600 V		
		Any Breaker	Specific Breaker	Any Breaker	Specific Breaker	Specific Fuse
100	Open with Inphase only	10,000	30,000	10,000	22,000	100,000 ¹
200	Open with Inphase only	10,000	30,000	22,000	35,000	100,000
400	Open with Inphase only	30,000	50,000	—	—	200,000
100, 200	Open with Inphase or Delayed	30,000	50,000	22,000	35,000	200,000
400	Open with Inphase or Delayed	30,000	50,000	50,000	65,000	200,000
600, 800, 1000, 1200	Open with Inphase or Delayed	50,000	65,000	50,000	65,000	200,000
1600	Open with Inphase or Delayed	50,000	65,000	—	—	200,000 ¹

1. Specific fuse rating at 480 V only.