

Power Series Transfer Switch

100 – 1,000 Amps

Service Entrance Rated · Molded Case Type · Open and Delayed Transition

- Automatic Transfer Switch, 100% Service Entrance Rated
- 100 – 1,000 A, Up to 600 VAC, 50/60 Hz
- 2, 3, or 4 Poles
- NEMA 1, 3R, or 4X
- Open 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 Service Entrance Molded Case Type Transfer Switch integrates automatic power switching with required disconnecting, grounding, and bonding for use as service entrance equipment. The integrated service entrance power switch meets all National Electrical Code requirements for service entrance equipment in a compact package. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

Designed with integral overcurrent protection and 100% rated disconnect breaker for unmatched performance, safety, and reliability. The internal dead front cover allows for manual operation under load with a permanently affixed handle. The full assembly is listed to UL 1008 with exceptional withstand and closing ratings.

The microprocessor-based ATS controller offers standard features of Modbus[®] RTU and pretransfer contacts, with three phase sensing on both sources plus load for voltage, frequency, sequencing, loss and unbalance. The mimic diagram displays source availability and connection, providing "at a glance" indication, further simplifying users interface. The controller is designed beyond industry EMC standards with a time-stamped history log.

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STANDARD FEATURES

GENERAL

- Double-Throw, Mechanically Interlocked Transfer Mechanism
- High Withstand and Closing Ratings
- LCD-Based Display for Programming, System Diagnostics and Help Menu Display
- Mimic Diagram with Source Available and Connected LED Indication
- Top, Bottom, and Side Cable Entry
- Time-Stamped History Log
- System TEST Pushbutton
- Programmable Plant Exerciser – OFF, Daily, 7 Day Interval Selectable Run Time 0-600 Minutes No Load/Load with Failsafe
- Safe Manual Operation Under Full Load with Permanently Affixed Operating Handle
- Space Heater with Thermostat (NEMA 3R)
- Modbus® RTU
- Field Programmable Time Delays
- ATC-300+ 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

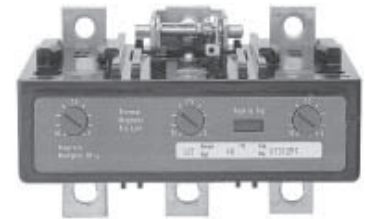
- Source Available:
 - Source-1 Present, 2-N.O. and 2-N.C.
 - Source-2 Present, 2-N.O. and 2-N.C.
- Switch Position:
 - Source-1 Position, 1-N.O. and 1-N.C.
 - Source-2 Position, 1-N.O. and 1-N.C.
- Pre-Transfer Signal Contacts 1-N.O. and 1-N.C.

FAST, POWERFUL AND SAFE POWER SWITCHING MECHANISM

The power panel utilizes a unidirectional gear motor mechanism. The power panel can be operated manually under a full load.

INTEGRAL OVERCURRENT PROTECTION CAPABILITY

The Service Entrance Molded Case Type Transfer Switch trip units are integrated in to the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space.



CONFIGURABLE OPTIONS

GENERAL

- ATC-900 Controller
- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Maintenance Selector Switch
- Remote Multi-Switch Annunciator Panel with Controller
- Remote Annunciator Panel with Controller
- Transient Voltage Surge Suppression (TVSS)
- Padlockable Cover for Controller
- Padlockable Cover for Device Panel
- Emergency Inhibit
- General Alarm Indication
- Selectable Retransfer
- Manual Generator Retransfer

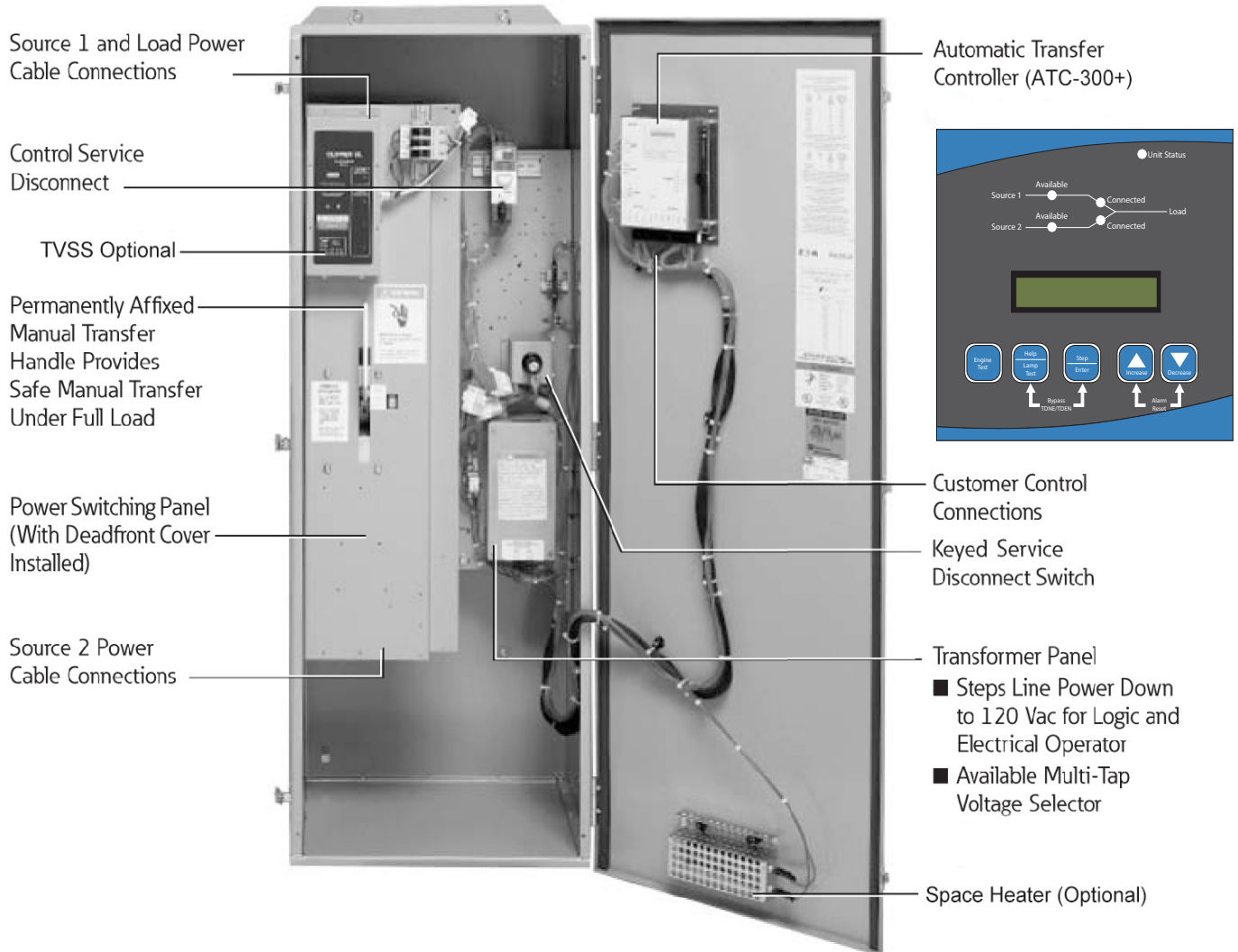
CAM-LOK™ QUICK CONNECT TERMINALS

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

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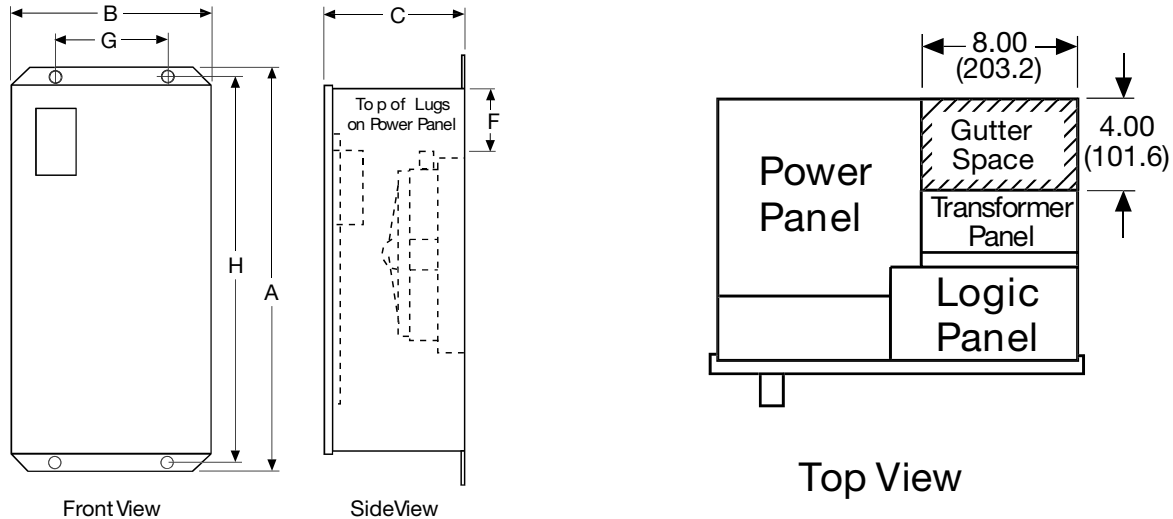
Components of Automatic Transfer Switches

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UNIT DIMENSIONS*



Service Entrance Rated, Molded Case Type, Open and Delayed Transition, 100 – 1,000 A

Amperes	Switch Type	in (mm)					Cu/Al			lbs (kg)
		A (Height)	B (Width)	C (Depth)	G (Horizontal)	H (Vertical)	Normal and Standby Source	Load Connection	Neutral Connection	Weight
<i>Information provided is for 3-pole configurations and is subject to change. Does not apply to NEMA 4X. Alternate lug terminal sizes are available for some configurations. Contact factory.</i>										
100	HFD	47.5 (1213)	20.8 (529)	15.2 (387)	10.8 (273)	46.4 (1180)	(1) #14-1/0	(1) #14-1/0	(3) #14-1/0	232 (105)
100	HFD ¹	35.6 (904)	20.1 (510)	11.3 (288)	10.8 (273)	34.3 (904)	(1) #14-1/0	(1) #14-1/0	(3) #14-1/0	150 (68)
200 – 225	HFD ¹	35.6 (904)	20.1 (510)	13.3 (339)	10.8 (273)	34.3 (904)	(1) #6-300	(1) #6-300	(3) #4-300	150 (68)
200 – 225	HKD	48.0 (1219)	20.8 (529)	16.7 (423)	11.0 (279)	45.5 (1156)	(1) #3-350	(1) #6-350	(3) #4-350	305 (138)
300	HKD	56.0 (1422)	20.8 (529)	16.7 (423)	11.0 (279)	53.5 (1359)	(1) #3-350	(1) #6-350	(3) #4-350	295 (134)
400	HKD ²	64.0 (1626)	25.8 (656)	16.7 (423)	16.0 (406)	61.5 (1562)	(2) #1-500	(2) #1-500	(6) 250-350	340 (150)
400	HLD	64.0 (1626)	25.8 (656)	16.7 (423)	16.0 (406)	51.5 (1308)	(1) 4/0-600	(2) #1-500	(6) 250-350	425 (193)
600	HLD	64.0 (1626)	25.8 (656)	16.7 (423)	16.0 (406)	62.5 (1588)	(2) 3/0-350	(2) #1-500	(6) 250-350	475 (214)
600	HMDL	76.7 (1949)	25.8 (656)	17.8 (451)	16.0 (406)	75.2 (1909)	(2) #1-500	(2) #1-500	(6) 4/0-500	480 (218)
600 (Four-pole)	NB	76.7 (1949)	25.8 (656)	17.8 (451)	16.0 (406)	75.2 (1909)	(3) 3/0-400	(3) 3/0-400	(3) 3/0-400	600 (272)
800	HMDL	76.7 (1949)	25.8 (656)	17.8 (451)	16.0 (406)	75.2 (1909)	(3) 3/0-400	(3) 3/0-400	(12) 4/0-500	510 (232)
800 – 1,000	HNB	76.7 (1949)	25.8 (656)	17.8 (451)	16.0 (406)	75.2 (1909)	(4) 4/0-500	(4) 4/0-500	(12) 4/0-500	570 (259)

¹ Applies to three phase (208/120) and single phase (240/120 or 208/120) voltage configurations with ATC-300+ controller only

² Applies to 2-pole single phase (240/120 or 208/120) voltage configurations with ATC-300+ controller only

UL 1008 Withstand and Closing Ratings

Ampere Rating	Service Entrance (kA)			Rating when Used with Upstream Fuse		
	240 V	480 V	600 V (kA)	Max Fuse Rating	Fuse Type	600 V
100	100	65	25	200	J, T	200
200	100	65	25	400	J, T	200
225	100	65	35	400	J, T	200
300	100	65	35	400	J, T	200
400	100	65	35	400	J, T	200
600 ³	100	65	35	1,200	J, T	200
800 ³	65	50	25	1,600	L	200
1,000 ³	65	50	25	1,600	L	200

³ Four-pole units rated at 35 kA

* 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.