

ASCO SERIES 165

Residential / Light Commercial

Automatic Transfer Switches.

Time Delays

- 3-second time delay to override momentary utility source.
- 15-second transfer to emergency time delay to allow engine generator to stabilize after starting.
- 15-second time delay after transfer to the standby source to ignore momentary voltage dips on the generator during initial loading.
- 5-minute time delay on retransfer to allow utility source to stabilize prior to transferring the load back to utility.
- 1-minute unloading running time delay for engine generator cool-down before shutdown.

External Power Connections¹

Switch Rating (amps)	Wire Size Range
100	(1) #14 to 4/0 AWG
200	(1) #14 to 4/0 AWG
230	(1) #14 to 4/0 AWG

1. UL listed for 200 or 230 amps with copper conductors only. For individual dwelling units as defined in NFPA 70 (NEC), in cases where the transfer switch is between the service main disconnect and the lighting and appliance branch circuit panelboard(s), NFPA 70 allows for a reduction in size of the feeder conductors.

All other applicable requirements of NFPA 70 regarding conductor ampacities must also be adhered to. Always install electrical equipment to the requirements defined by the authority having jurisdiction.

Product Features

- Nominal voltage 120/240 V 60 Hz, single phase.
- Listed to UL 1008 for total system loads (motors and all other electrical loads).
- Meets National Electrical Code (NEC) and National Fire Protection Association (NFPA) requirements.
- True double-throw contacts (no intentional off position), with inherent mechanical interlocking to prevent connection of generator and utility source.
- Convenient terminals to connect neutral and ground conductors from service and load feeders.
- Available in Type 1 (indoor) and Type 3R (outdoor) enclosures.
- Manually-operated SERIES 165 Transfer Switches are also available.
- Available from stock.

Diagnostic Indicators

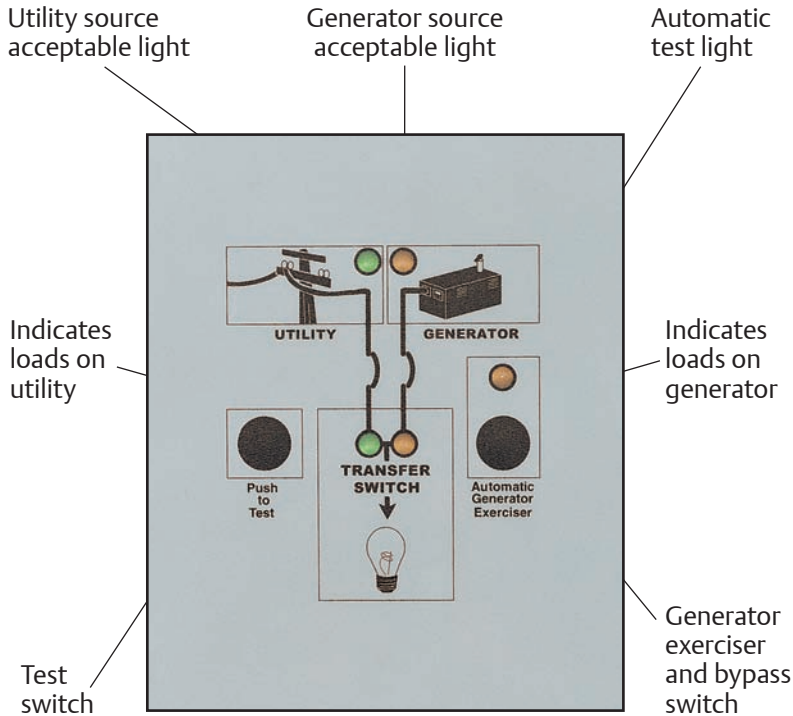
The 165 Automatic Transfer Switch has a unique built-in automatic digital diagnostic monitoring system, which provides status on potential system problems such as: generator failed to start; generator over frequency; transfer switch did not transfer; and more. It's one more way you can count on ASCO to provide continuous power protection...anytime.



SERIES 165 Automatic Transfer Switch In Type 3R Outdoor Enclosure

Withstand and Close-On Ratings

Switch Rating (amps)	When Used With Current Limiting Fuses	When Used With Circuit Breakers
100	100	100
200	200	200



Control Panel

User-friendly control panel with easy to understand symbols and all the necessary visual indicators to inform the operator of transfer switch and power source status.

SERIES 165 Automatic Transfer Switch



Ordering Information

Automatic Transfer Switch

Catalog Number	Enclosure	Ampere
165A2100F3C	Type 1 Indoor	100
165A2200F3C	Type 1 Indoor	200
165A2230F3C	Type 1 Indoor	230
165A2100F3F	Type 3R Outdoor ¹	100
165A2200F3F	Type 3R Outdoor ¹	200
165A2230F3F	Type 3R Outdoor ¹	230

1. Type 3R enclosures provide a degree of protection against falling dirt, rain, sleet and snow. Additional protection may be required in locations subject to wind blown conditions

Automatic Transfer Switch Dimensions and Weights

Switch Rating	Enclosure	Poles	Width	Height	Depth	Weight
			inches (mm)	inches (mm)	inches (mm)	lb (kg)
100	Type 1 Indoor	2	14.25 (362)	24 (610)	8 (203)	43 (20)
200	Type 1 Indoor	2	14.25 (362)	24 (610)	8 (203)	43 (20)
230	Type 1 Indoor	2	14.25 (362)	24 (610)	8 (203)	43 (20)
100	Type 3R Outdoor	2	14.75 (375)	25 (635)	8.5 (216)	47 (22)
200	Type 3R Outdoor	2	14.75 (375)	25 (635)	8.5 (216)	47 (22)
230	Type 3R Outdoor	2	14.75 (375)	25 (635)	8.5 (216)	47 (22)

ASCO SERIES 165 Residential / Light Commercial Manual Transfer Switches.

Product Features

- Identical to the electrically operated type 165 except operation is manually initiated.
- Operation is achieved through direct manual quick-make/quick-break handle from the outside of the enclosure.
- True double-throw, inherently interlocked construction to absolutely prohibit connecting both sources together.
- UL 1008 listed for total system loads.
- Ideal for those applications that have manual start generators without provisions for automatic engine start.
- Pad locking provisions on operating handle to prevent unauthorized operation.
- Same withstand and close-on ratings as SERIES 165 automatic version.

