

ASCO SERIES 185 Power Transfer Switches

For Residential and Light Commercial Applications

ASCO Is There For You...Even When You're Not 24 Hour Protection Against Power Failures

Residential power outages can jeopardize homeowner personal safety and comfort, and also cause millions of dollars in damages to small businesses each year.

Computers, communications, air conditioning, security systems, refrigerators and freezers, hot water heaters and sump pumps all depend on electrical power to operate.

A generator is one piece of the solution. An ASCO SERIES 185 Power Transfer Switch is the other, the vital link that makes continuous power hassle free.

ASCO SERIES 185 Power Transfer Switches provide all

the intelligence your generator needs to make sure the power stays on when utility power fails. Sensing the loss of utility power and signaling the generator to start and restore power to your home or business – even if no one is home. When utility power has been restored, the SERIES 185 Power Transfer Switch automatically transfers your vital loads back to the utility and shuts the generator down.

Working hand in hand with virtually every brand of generator, ASCO SERIES 185 Power Transfer Switches provide around-the-clock protection from a power failure, taking action only when required.



ASCO SERIES 185 Power Transfer Switches are suitable for operation with portable or permanently mounted standby generators supporting loads up to 400 Amperes.

For larger loads, and three-phase applications, the ASCO SERIES 300 product line is available.

Visit www.ascopower.com for more information.

Features

- User-friendly control interface with easy to understand symbols and visual indicators to inform operator of transfer switch and power source status
- Listed to UL 1008 for optional standby systems, handling total system load including motors and all other electrical loads
- cUL Listed for Canadian installations
- Meets Article 702, NFPA-70 National Electric Code (NEC) requirements
- Nominal service voltage 240V 50/60Hz, single phase, 3 wire AC systems
- Available in 100 through 400A ratings
- 200A and 400A Service Entrance designs feature disconnect circuit breaker on normal source
- True double-throw contacts with inherent mechanical interlocking to prevent connection of generator and utility sources
- Terminals for convenient connection of neutral and ground conductors
- Available in NEMA Type 1 Indoor (steel) and Type 3R Outdoor (aluminum) enclosures, with hinged door designs
- Textured RAL 7035 light beige color aesthetically suitable for residential applications
- Available in load-break manually operated version, up to 230A
- Available from stock
- 24 hour support, call 1-800-800-ASCO

ASCO SERIES 185 Ordering and Technical Information

Automatic Transfer Switches

Catalog Number	Enclosure ¹	Construction	Amps	Poles	Height(in)	Width(in)	Depth(in)	Weight lb(kg)
185A2100F4C	Type 1 Indoor	Steel	100	2	24	14.25	8.25	44(20)
185A2200F4C	Type 1 Indoor	Steel	200	2	24	14.25	8.25	44(20)
185A2230F4C	Type 1 Indoor	Steel	230	2	24	14.25	8.25	44(20)
185A2400F4C	Type 1 Indoor	Steel	400	2	45	22	7.5	79(28)
185A2100F4M	Type 3R Outdoor	Aluminum	100	2	24	16	10	49(22)
185A2200F4M	Type 3R Outdoor	Aluminum	200	2	24	16	10	49(22)
185A2230F4M	Type 3R Outdoor	Aluminum	230	2	24	16	10	49(22)
185A2400F4M	Type 3R Outdoor	Aluminum	400	2	48	24	10	118(53)

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.

Service Entrance Transfer Switches - Single Breaker On Normal Source²

Catalog Number	Enclosure	Construction	Amps	Poles	Height(in)	Width (in)	Depth(in)	Weight lb(kg)
1AUSA2200F4C	Type 1 Indoor	Steel	200	2	36.4	16.3	6.1	112(51)
1AUSA2400F4C	Type 1 Indoor	Steel	400	2	47.2	36.2	8.1	376(151)
1AUSA2200F4M	Type 3R Outdoor	Aluminum	200	2	37.4	16.3	8.1	118(54)
1AUSA2400F4M	Type 3R Outdoor	Aluminum	400	2	48.2	36.2	8.1	428(195)

2. Additional breaker on emergency source optional - call for details.

* Manual Transfer Switches Also Available - Contact ASCO For Information

Withstand and Close-On Ratings

Switch Rating (amps)	Used With Circuit Breaker	Used With Current Limiting Fuse
100	10kA	200kA
200	10kA	200kA
230	10kA	100kA
400	42kA*	200kA

* Specific breaker rating

External Power Connections³

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
400	(2) 1/0 AWG to 250MCM or (1) # 4 AWG to 600 MCM

Time Delays

- Adjustable 1 or 3 second time delay for overriding momentary utility source disruptions
- Adjustable 0 or 4 second time delay while on standby source to ignore momentary generator voltage dips
- 5 minute time delay for load re transfer back to utility source, to ensure stability of utility power
- Adjustable 2 or 5 minute unloaded running time delay allows generator to cool down prior to shutdown
- 10 second time delay before load transfer to emergency source, to allow generator warm-up and stabilization

Field Installation Accessory Kits

- K373314 Auxiliary Switch Position Contact Kit 14A/14B, 100 through 230A
 K732212-003 Strip Heater Kit for Type 3R 185 Enclosures, 100 Watt, For Use in Condensing Humidity Environments
 TBA - Single Remote Annunciator With Connectivity Module Package 72R
 (Annunciator mounts flush or surface on standard 4" electrical wall box)
 K629830-002 Programmable Engine Exerciser Module 11BG

3. UL Listed for 200 or 230A ratings using 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 panel boards, NFPA allows for a reduction in the size of the feeder conductors. Refer to NFPA 70 for additional information.