ASCO SERIES 300 Power Transfer Switches













24-hour protection no matter when trouble strikes

ASCO Series 300 Power Transfer Switches for Power Outage Protection

Where would you be without a constant flow of electrical power? We often take for granted that power will always be around when we need it. In reality, power failures are very common. And when the power goes out, your business suffers. Power failures are unpredictable. They can occur at any time and for any number of reasons—a bolt of lightning, a power surge, a blackout, an accident or even equipment failure. They come without warning and often at the most inconvenient times.

It's for this reason that many businesses and other entities have invested in emergency power backup systems. Typically, the system consists of an engine generator and an automatic transfer switch (ATS) which transfers the load from the utility to the generator.

control logic monitors your normal power supply and senses any interruptions. When the utility power fails, the ATS automatically starts the engine and transfers the load after the generator has reached proper voltage and frequency. This happens in a matter of seconds after the power failure occurs. When the utility power has been restored, the ATS will automatically switch the load back, and after a time delay, it will shut down the engine. With an Automatic Transfer Switch, you are protected 24 hours a day, seven days a week.





Typical Applications

Telecom

In the telecommunications industry, providing a high level of service and dependability is crucial. Lost power means an interruption in service for your for your company. For instance, wide geographical region and in many remote areas, the chances increased, making Automatic Transfer Switches a valuable resource at each location. To maintain dependable service, each cell site must be monitored very difficult without some type of remote monitoring and testing capability. The SERIES 300 Transfer Switch, combined with effective, packaged solution these challenging objectives without a major investment at each cell site. With ASCO's connectivity solutions you can remotely monitor and control numerous sites from around the corner or around the world.

Agriculture

Maintaining electrical power is vital to an agriculture operation. If the flow of power is interrupted, your operation backup generator is quickly aspects of the operation, from housing and feeding livestock to processing and producing the end product. With an ASCO Series 300 Transfer backup generator, eliminating from utility to generator. When power is restored, the ASCO after an adjustable time delay to allow for utility stabilization, auto-matically switch the load

Commercial / Retail, Light Industrial

The retail industry is very competitive. An electrical power failure can have a dramatic impact on a retailer's bottom line. If power is interrupted during peak shopping times, the effect could be extremely damaging to present and ruption will not only suspend shopping, it can also create safety problems, result in lost transaction data, lost account information and damage to data collection equipment. In controlled climates to protect valuable inventory could suffer even greater losses, especially a time when no one is available to rectify the situation. To avoid any of these power outage problems, simply install a backup generator with an ASCO Series 300 Transfer Switch and power outage concerns will be a thing of the past.

Municipal

The ASCO SERIES 300 Transfer Switch can be a critical component of a municipal government's emergency power backup system. Residents of townships, cities and counties rely on police, fire, ambulance/first aid and other critical public sector services. An interruption in power would affect the ability of emergency services to effectively respond to the needs of the community. When time is a critical factor, such as when responding to a fire alarm or an emergency call, an ASCO SERIES 300 Transfer Switch can be a lifesaver, switching power to the backup generator. While not all municipal services are a matter of life and death, they are always expected to be there.



ASCO[®] Series 300 Power Transfer Switches

Maximum Reliability & Excellent Value

With a Series 300 Transfer Switch, you get a product backed by ASCO Power Technologies, the industry leader responsible for virtually every major technological advance in the Transfer Switch industry.

The ASCO Series 300 was designed for one purpose—to automatically transfer critical loads in the event of a power outage. Each and every standard component was designed by ASCO engineers for this purpose.

The rugged construction and proven performance of the ASCO Series 300 assure the user of many years of complete reliability. The Series 300 is even designed to handle the extraordinary demands placed on the switch when starting or restarting stalled motors and switching high inrush loads.

ASCO's Series 300 modular, compact design makes it easy to install, inspect and maintain. All parts are accessible from the front so switch contacts can be easily inspected.

Features

- The Series 300 is listed to UL 1008 standard for Transfer Switch Equipment and CSA standard C22.2 for automatic transfer switches.
- Meets NFPA 110 for Emergency and Standby Power Systems and the National Electrical Code (NEC) Articles 700, 701 and 702.
- 30 through 3000 amps in a compact design.
- Available to 600 VAC, single or three phase.
- True double-throw operation: The single solenoid design is inherently inter-locked and prevents contacts from stopping between sources or from being in contact with both sources at the same time.

UL Listed Withstand & Close-On Ratings

| | Available Symmetrical Amperes RMS | | | | | | | |
|------------------------|---|--------------------|--|--|--|--|--|--|
| Switch Ratings Amps | When Used With Current Limiting Fuses | Maximum Voltage | When Used With Specific Circuit Breakers | | | | | |
| 30 | 100,000 | 480v/60Hz | 10,000 | | | | | |
| 70 - 200 | 200,000 | 480v/60Hz | 22,000 | | | | | |
| 230 | 100,000 | 480v/60Hz | 22,000 | | | | | |
| 260, 400 | 200,000 | 480v/60Hz | 42,000 | | | | | |
| 600 | 200,000 | 600v/60Hz | 42,000 | | | | | |
| 600 | 200,000 | 480v/60Hz | 50,000 | | | | | |
| 600 | 200,000 | 240v/60Hz | 65,000 | | | | | |
| 800,1000,1200 | 200,000 | 600v/60Hz | 65,000 | | | | | |
| 1600, 2000 | 200,000 | 600v/60Hz | 85,000 | | | | | |
| 2600, 3000 | 200,000 | 600v/60Hz | 100,000 | | | | | |

Notes: 1. Current – limiting fuse should be Class J type through 400 amps:

use Class L type above 400 - amp fuse rating

2. Refer to publication 1128 for specific manufacturer's breakers



Fig. 1: ASCO Power Transfer Switch rated 200 amperes shown in Type 3R enclosure

- There's no danger of the SERIES 300 ATS transferring loads to a dead source because the unique ASCO single-solenoid operator derives power to operate from the source to which the load is being transferred.
- Easy-to-read flush-mounted control and display panel provides LED indicators for switch position and source availability. It also includes test and time-delay bypass switches as standard features.
- Standard engine exerciser for weekly automatic testing of engine generator set with or without load.
- Adjustable time-delay feature prevents switch from being activated due to momentary utility power outages and generator dips.
- Supplied with solid neutral termination.
- Optional switched neutral pole available.
- Accessory kits available.
- Available for immediate delivery.
- Now available for service entrance applications. Contact ASCO for assistance.



ASCO[®] Series 300 Power Transfer Switches

Designed to Fit Anywhere

The ASCO Series 300 product line represents the most compact design of automatic power transfer switches in the industry. With space in electrical closets being at a premium, the use of wall or floor-mounted ASCO Power Transfer Switches assures designers optimum utilization of space.

All transfer switches through 2000 amps are designed to be completely front accessible. This permits the enclosures to be installed flush to the wall and still allows installation of all power cabling and connections from the front of the switch. Cable entrance plates are also standard on the 1600 and 2000 amp units to install optional side-mounted pull boxes for additional cable bending space.



Fig. 2: ASCO Power Transfer Switch rated 200 amperes



Fig. 3: ASCO Power Transfer Switch rated 400 amperes



Fig. 4: ASCO Power Transfer Switch rated 600 Amperes



Fig. 5: ASCO Power Transfer Switch rated 1000 amperes



Fig. 6: ASCO Power Transfer Switch rated 2000 amperes shown in Type 3R enclosure



Fig. 7: ASCO Power Transfer Switch rated 3000 amperes



ASCO Series 300 Microprocessor Controller

The ASCO Microprocessor Controller is used with all sizes of Power Transfer Switches. It represents the most reliable microprocessor controller in the industry and includes, as standard, all of the voltage, frequency, control, timing and connectivity functions required for most emergency and standby power applications.



Fig. 8: ASCO SERIES 300 Microprocessor Controller

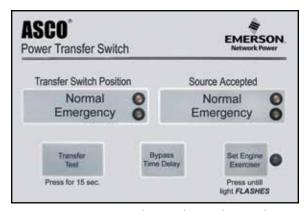


Fig. 9: Door-Mounted Control & Display Panel

Control and Display Panel

• Easy-to-read flush-mounted control and display panel provides LED indicators for switch position and source availability. It also includes test and time-delay bypass switches.

Voltage & Frequency Sensing

- Adjustable three-phase, close-differential voltage sensing on normal source.
- Normal source pickup voltage is adjustable to 95% of nominal; drop-out is adjustable from 70% to 90% of nominal.
- Frequency sensing on emergency source. Pickup at 95% and dropout at 85% of nominal.

Time Delays

- Adjustable time delay to override momentary normal source outages to delay all transfer switch and enginestarting signals.
- Transfer to emergency time delay--Adjustable from 0 to 5 minutes for controlled timing of load transfer to emergency.
- Re-transfer to normal time delay—Adjustable to 30 minutes.
- Five-minute unloaded running time delay for emergency engine generator cool down.
- Four-second time delay to ignore momentary voltage and frequency transients during initial genset loading.

Standard Selectable Features

- Inphase monitor to transfer motor loads, without any intentional off time, to prevent inrush currents from exceeding normal starting levels.
- Engine exerciser to automatically test backup generator each week-Includes control switch for testing with or without load.
- Selective load disconnect, double-throw contact to operate at an adjustable 0 to 20 second adjustable time delay prior to transfer and reset 0 to 20 seconds after transfer.
- 60 Hz or 50 Hz selectable switch. Three-phase/single-phase selectable switch.

Remote Control Features

Terminal provisions for connecting:

- Remote test switch.
- Remote contact for test or for peak shaving applications. Circuit will be automatically bypassed if emergency source fails.
 - Remote time-delay bypass switch.



ASCO Series 300 Microprocessor Controller

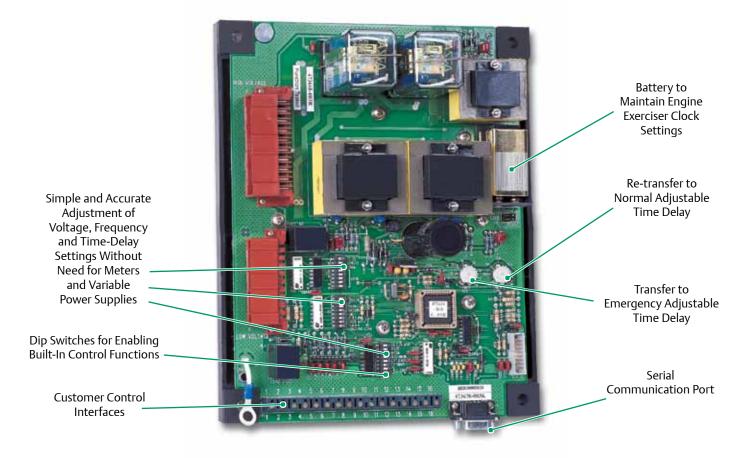


Fig. 10: Microprocessor Controller

Performance Features

- 600 volt spacing per UL and CSA standards.
- Interfacing relays are industrial grade, plug-in type with dust covers.
- Meets or exceeds the requirements for Electromagnetic Compatibility (EMC).
- ANSI C37.90A/IEEE472 Voltage Surge Test
- NEMA ICS-109.21 Impulse Withstand Test
- Digital circuitry isolated from line voltages
- IEC 801-2 Electrostatic discharge (ESD) immunity
- ENV50140 and IEC 803-1: Radiated electromagnetic field immunity

- IEC 801-4 Electrical fast transient (EFT) immunity
- ENV50142 Surge transient immunity
- ENV50141: Conducted radio-frequency field immunity
- EN55011: Group 1, Class A conducted and radiated emissions
- Optically isolated RS-485 Serial Port
- EN61000- 4-11 voltage dips and interruptions immunity



ASCO[®] Series 300 ATS Optional Accessories

Accessory 11BG

A programmable engine exerciser that provides for weekly or bi-weekly operation, includes one form C contact for source availability of normal and one contact for availability of emergency (contact rating 2 amps @ 30 Vdc, 0.5 amp @ 125 Vac resistive). The programmable engine exerciser incorporates a 7 day or 14 day time base with a digital readout display. Includes "with or without" load control selection for exerciser period.

Accessory 14AA/14BA

Auxiliary contacts to indicate position of main contacts. Two (2) for normal and two (2) for emergency position (one set is standard).

Accessory 44A

Strip Heater with thermostat for extremely cold areas to prevent condensation and freezing of this condensation. External 120 volt power source required.

Accessory 44G

Strip Heater with thermostat, wired to load terminals: 208-240, 360-380, 460-480, 550-600 volts. Contains wiring harnesses for all transfer switch sizes.

Accessory 72A/72E

*See "Connectivity Products", Page 18

Accessory 123

A protective window that includes a poly-carbonate frame and weather gasket to provide secure access to the membrane interface for the type 1 enclosures. This lockable cover is an alternative to providing 3R secure enclosures.



Fig. 11: Programmable Engine Exerciser with Source Availability Contacts (Accessory 11BG)



Fig. 12: Strip Heater Kit (Accessory 44G)

Field Conversion Kits for Series 300 Transfer Switches

| Kit No. | Description |
|-------------|---|
| K629830 | Engine Exerciser and source availability contacts (Acc. 11BG) |
| K613127-001 | Strip Heater Kit (125 watt) 120 volt (Acc. 44A) |
| K613127-002 | Strip Heater Kit (125 watt) 208-480 volt (Acc. 44G) |
| K609027 | Cable Pull Box (1600-2000 amp) |
| K473872-001 | 6 FT Extension Harness ¹ |
| K755257-001 | Serial Module with or without power manager (Acc. 72A) |
| K754603-001 | Connectivity Module with or without power manager (Acc. 72E) |
| K778330-001 | Window Kit (Acc. 123) |

^{1.} For 30-200 Amp switches only, not available for 300SE, or 300L



Fig. 13: Window Kit (Accessory 123)



SERIES 386 Non-Automatic Power Transfer Switches

User-Initiated Control

ASCO 386 non-automatic transfer switches are generally used in applications where operating personnel are available and the load is not an emergency type requiring automatic transfer of power. The power-switching mechanism and controller is the same hardware used on the highly reliable ASCO Series 300 transfer switches. ASCO 386s are furnished as standard with a momentary-type selector switch to initiate transfer and re-transfer. They can also be arranged for remote control via ASCO's connectivity products.



Fig. 14: ASCO 386 400 Amp Type 1 Enclosure w/Optional Accessories 9C, 9D Source Availability Lights

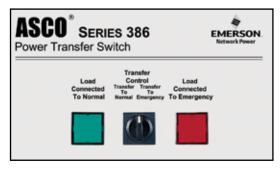


Fig. 15: Control and Display Panel

Electrical Features:

- Listed under UL 1008, CSA certified:
 - UL listed through 480 VAC.
 - CSA certified through 600 VAC.
- Door-mounted selector switch for local, manually initiated electrical control.
- Sizes from 30 through 3000 amps.
 Available to 600 VAC, 50 or 60 Hz.
- Rated for all classes of load transfer.
 100% tungsten load ratings through 400 amps.
- Designed for emergency and standby applications.
- Same withstand and close-on rating as Series 300.

Standard Selectable Control Features:

- Inphase monitor to transfer motor loads between live sources, without any intentional off time, to prevent inrush currents from exceeding normal starting levels.
- Selective load disconnect, double-throw contact to operate at an adjustable 0 to 20 second time delay prior to transfer and reset 0 to 20 seconds after transfer.
- High/Low nominal voltage setting. Allows user to adjust for source low reduced voltage conditions in remote areas.
- 60 Hz or 50 Hz selectable switch.
- Single/Three-phase selectable switch.

Control Features:

- Switch position indicating signal lights.
- One auxiliary contact closed when transfer switch is connected to normal and one closed on emergency, standard feature 14A/14B.

Optional Accessories:

- 6Q Key-operated, momentary source selector switch furnished instead of the standard selector switch.
- 9C, 9D Source availability lights to provide operator with a local indication of power source availability.
- Accessory 14AA/14BA auxiliary contacts to indicate position of main contacts. Two (2) for normal position and two (2) for emergency position (one set is standard).
- 72A Serial module (5110) is used to allow local or remote communications with ASCO POWERQUEST[®] connectivity products.
- Special Enclosures
 (Specify by appropriate code in catalog number):
 Type 3R: Rain-tight
 Type 4: Weatherproof
 Type 12: Oil Tight
- 72E Connectivity Module 5150 is used to bring several different serial devices that communicate at different baud rates and with different protocols to a common Ethernet media.



SERIES 300 & 386 Transfer Switch Ordering Information

To order an ASCO Series 300 Power Transfer Switch, complete the following catalog number:

| 300 | + B + | + 3 - | + 600 + | | Ν - | + 1 + | - X · | + | C + | - 11CD - | + 480V 60Hz |
|---------|--|----------------------------------|---|---|--|------------|---|----------------------------|---|---|---|
| Product | Neutral Code | Poles | Amperes | | tage ode | Controller | Options | - | closure Open Type | Optional Accessories | Specific Volt & Freq |
| 300 | Blank Solid Neutral B¹ Switched Neutral | 2 poles, 1Ø 3 poles, 3Ø | Continuous rating 30, 70, 104, 150, 200 ⁴ , 230 ⁴ , 260, 400, 600, 800, 1000, 1200, 1600, 2000 2600 ⁵ , 3000 ⁵ | A ³ B ³ C D E F H J K L M N Q R | 115 120 208 220 230 240 380 400 415 440 460 480 575 600 | 1 | Insert "X" If optional accessories are required | F G H L M N | Type 1 (Standard) Type 3R Type 4 ² Type 4X Type 12 ² Type 3R Secure Type 4 Secure Type 4X ⁶ Secure Double Door SS Type 3RX ^{6,7} Secure Double Door SS | 11BG Programmable Engine Exerciser 14AA/14BA Auxiliary Contacts (2 sets) 44A, 44G Strip Heater w/ Thermostat 72A Serial Module 72E Connectivity Module 123 Window Kit | This information is necessary to allow correct control settings prior to shipment |

To order an ASCO SERIES 386 Transfer Switch, complete the following catalog number:

| 386 + | + B + | - 3 + | - 600 + | . 1 | - ا | + 1 + | + X - | + | C + | 9C/9D + | - 480V 60Hz |
|---------|--|----------------------------------|---|---|--|------------|---|--------------------------------------|---|---|---|
| Product | Neutral Code | Phase Poles | Amperes | | tage ode | Controller | Options | En Blank | closure Open Type | Optional Accessories | Specific Volt & Freq |
| 386 | A Solid Neutral B¹ Switched Neutral | 2 poles, 1Ø 3 poles, 3Ø | Continuous rating 30, 70, 100, 150, 200 ⁴ , 230 ⁴ , 260, 400, 600, 800, 1000, 1200, 1600, 2000, 2600, 3000 ⁵ | A ³ B ³ C D E F H J K L M N Q R | 115 120 208 220 230 240 380 400 415 440 460 480 575 600 | 1 | Insert "X" If optional accessories are required | C F G H L M N P | Type 1 (Standard) Type 3R Type 4 ² Type 42 Type 3R Secure Type 4 Secure Type 4 Secure Type 4S Type 3R Type 3R Type 4S Type 5S Type 3RX Type 3RX | 6Q Key-Operated Control 9C/9D Source Availability Lights 14AA/14BA Auxiliary Contacts 72A Serial Module All Accessories 72E Connectivity Module | This information is necessary to allow correct control settings prior to shipment |

- **Notes:** 1. Specify neutral code "C" for 260 and 400 amperes only.
 - 2. Available 30-1000, and 1600 amps. Use Type 3R for 1200, 2000, 2600 and 3000 amp applications.
 - 3. 115-120 volt available 30-400 amps only. For other voltages contact ASCO.
 - 4. 200 and 230 amp rated switches for use with copper cable only.
 - 5. Secure 3R type provided as standard for 2600-3000 amp when outdoor enclosure is required.
 - 6. Type 304 Stainless Steel is standard. Suitable for indoor or outdoor use where there may be caustic or alkali chemicals in use. To provide an improved reduction in corrosion of salt and some chemicals, optional type 316 Stainless Steel is recommended. This is a preferred choice for marine environments.
 - 7. Available on switches rated 1200, 2000, 2600, and 3000 Amps.

Extended Warranties for Series 300 Transfer Switches

| Catalog No. | Description |
|-------------|--|
| 2EXW300 | Two-Year Extended Warranty (Parts & Labor) |
| 3EXW300 | Three-Year Extended Warranty (Parts & Labor) |
| 4EXW300 | Four-Year Extended Warranty (Parts & Labor) |
| 5EXW300 | Five-Year Extended Warranty (Parts & Labor) |



ASCO Series 300 & 386 Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure⁴

| Switch Rating | Phase | Neutral | | Approx. Shipping | | |
|-----------------------------|-------|---------------------|--------------|------------------|--------------|-----------------|
| Amps | Poles | Code | Width | Height | Depth | Weight Lb. (kg) |
| | 2 | Α | 17 1/2 (445) | 31 (787) | 11 5/8 (295) | 69 (32) |
| 30, 70, 100*, 104 | 2 | В | 17 1/2 (445) | 31 (787) | 11 5/8 (295) | 73 (33) |
| 150, 200 | 3 | Α | 17 1/2 (445) | 31 (787) | 11 5/8 (295) | 73 (33) |
| *Series 386 only | 3 | В | 17 1/2 (445) | 31 (787) | 11 5/8 (295) | 75 (34) |
| | 2 | Α | 18 (457) | 48 (1219) | 13 (330) | 100 (45) |
| 230 ³ , 260, 400 | 2 | B³ or C | 18 (457) | 48 (1219) | 13 (330) | 110 (50) |
| 230 , 260, 400 | 3 | Α | 18 (457) | 48 (1219) | 13 (330) | 100 (45) |
| | 3 | B ³ or C | 18 (457) | 48 (1219) | 13 (330) | 120 (55) |
| | 2 | А | 24 (610) | 63 (1600) | 17 (432) | 263 (119) |
| 600 | 2 | В | 24 (610) | 63 (1600) | 17 (432) | 270 (122) |
| 600 | 3 | А | 24 (610) | 63 (1600) | 17 (432) | 270 (122) |
| | 3 | В | 24 (610) | 63 (1600) | 17 (432) | 277 (126) |
| | 2 | Α | 34 (864) | 72 (1829) | 20 (508) | 450 (204) |
| 900 1000 | 2 | В | 34 (864) | 72 (1829) | 20 (508) | 475 (217) |
| 800, 1000 | 3 | Α | 34 (864) | 72 (1829) | 20 (508) | 475 (217) |
| | 3 | В | 34 (864) | 72 (1829) | 20 (508) | 500 (228) |
| | 2 | Α | 38 (965) | 87 (2210) | 24 (610) | 685 (312) |
| 1200 | 2 | В | 38 (965) | 87 (2210) | 24 (610) | 705 (321) |
| 1200 | 3 | Α | 38 (965) | 87 (2210) | 24 (610) | 705 (321) |
| | 3 | В | 38 (965) | 87 (2210) | 24 (610) | 725 (328) |
| 1000 2000] | 3 | Α | 38 (965) | 87 (2210) | 24 (610) | 925 (419) |
| 1600, 2000 ¹ | 3 | В | 38 (965) | 87 (2210) | 24 (610) | 975 (441) |
| 2000 20002 | 3 | Α | 38 (965) | 91 (2311) | 60 (1524) | 1700 (771) |
| 2600, 3000 ² | 3 | В | 38 (965) | 91 (2311) | 60 (1524) | 2135 (969) |

Notes:

- 1. Unit is designed for top cable entry of emergency & load and bottom entry of normal. A cable pull box is also available for all top or bottom cable access when required (optional accessory kit #K609027). Not required for type 3R, 4X & 12 enclosures where available.
- 2. Enclosures for 2600, 3000 amps are free-standing with removable top, sides & back.
- 3. Neutral Code "B" for 230 amperes
- 4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

UL Type 3R, 4 or 12 Enclosure^{1,4,5,6}

| Switch Rating | Phase | Neutral | Dim | nensions, In. (n | nm) | Approx. Shipping |
|-----------------------------|-------|---------|--------------|------------------|--------------|------------------|
| Amps | Poles | Code | Width | Height | Depth | Weight Lb. (kg) |
| | 2 | Α | 17 1/2 (445) | 35 (886) | 11 5/8 (295) | 84 (38) |
| 30, 70, 100*, 104 | 2 | В | 17 1/2 (445) | 35 (886) | 11 5/8 (295) | 87 (40) |
| 150, 200 | 3 | Α | 17 1/2 (445) | 35 (886) | 11 5/8 (295) | 87 (40) |
| *Series 386 only | 3 | В | 17 1/2 (445) | 35 (886) | 11 5/8 (295) | 90 (41) |
| | 2 | Α | 18 (458) | 50 1/2 (1284) | 14 1/3 (364) | 132 (60) |
| 230 ³ , 260, 400 | 2 | B³ or C | 18 (458) | 50 1/2 (1284) | 14 1/3 (364) | 140 (63) |
| 230 , 260, 400 | 3 | Α | 18 (458) | 50 1/2 (1284) | 14 1/3 (364) | 140 (63) |
| | 3 | B³ or C | 18 (458) | 50 1/2 (1284) | 14 1/3 (364) | 148 (67) |
| | 2 | Α | 24 (610) | 63 (1602) | 18.50 (470) | 664 (300) |
| 600 | 2 | В | 24 (610) | 63 (1602) | 18.50 (470) | 672 (303) |
| 600 | 3 | Α | 24 (610) | 63 (1602) | 18.50 (470) | 672 (303) |
| | 3 | В | 24 (610) | 63 (1602) | 18.50 (470) | 680 (307) |
| | 2 | Α | 34 (864) | 75 (1907) | 20 (508) | 664 (300) |
| 800, 1000 | 2 | В | 34 (864) | 75 (1907) | 20 (508) | 672 (303) |
| 800, 1000 | 3 | Α | 34 (864) | 75 (1907) | 20 (508) | 672 (303) |
| | 3 | В | 34 (864) | 75 (1907) | 20 (508) | 680 (307) |
| | 2 | Α | 41 (1043) | 94 1/2 (2403) | 33 1/2 (852) | 1131 (513) |
| 12006 | 2 | В | 41 (1043) | 94 1/2 (2403) | 33 1/2 (852) | 1160 (526) |
| 1200 ⁶ | 3 | Α | 41 (1043) | 94 1/2 (2403) | 33 1/2 (852) | 1160 (526) |
| | 3 | В | 41 (1043) | 94 1/2 (2403) | 33 1/2 (852) | 1189 (539) |
| 1600 2000? | 3 | Α | 41 (1043) | 95 1/2 (2428) | 62 (1577) | 1810 (817) |
| 1600, 2000 ² | 3 | В | 41 (1043) | 95 1/2 (2428) | 62 (1577) | 1860 (843) |
| 2000 2000 | 3 | Α | 41 (1043) | 95 1/3 (2424) | 74 (1882) | 2005 (905) |
| 2600, 3000 | 3 | В | 41 (1043) | 95 1/3 (2424) | 74 (1882) | 2070 (938) |

Notes:

- 1. 30-1000 amps non-secure enclosure. 1200-3000 amps secure enclosure
- 2. When climate conditions at installation site present condensation risk, special precautions should be taken, such as the inclusion of space heaters, to prevent interior condensation and freezing of this condensation.
- 3. Neutral code "B" for 230 amperes
- 4. Dimensions for switch sizes 30 -1000 amperes suitable for Type 3R, 4, or 12 non secure enclosure, 1200 -3000 amperes only suitable for type 3R.
- 5. For 1200 ampere type 4, or 12 use 1600 amperes secure enclosure dimensions.
- 6. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

SERIES 300 & 386 External Power Connections

Sizes UL-Listed Solderless Screw-Type Terminals

| Switch Rating (Amps) | Ranges of AL-CU Wire Sizes (Unless Specified Copper Only) |
|-------------------------|--|
| 30 - 230 ² | One #14 to 4/0 AWG |
| 260, 400 | Two 1/0 AWG to 250 MCM or One #4 AWG to 600 MCM |
| 600 | Two 2/0 AWG to 600 MCM |
| 800, 1000, 1200 | Four 1/0 to 600 MCM |
| 1600, 2000 | Six 1/0 to 600 MCM |
| 2600, 3000 | Twelve 3/0 to 600 MCM |

- 1. All Series 300 switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs. Specify "A" in catalog number to order a neutral plate on the series 386 switches.
- 2. 200 and 230 amp rated switches for use with copper cable only. Refer to paragraph 310.15 of the NEC for additional information.
- 3. Use wire rated 75°C minimum for all power connections.

ASCO Series 300SE Power Transfer Switch

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the necessary disconnecting. grounding, and bonding required for use as service entrance equipment. The power transfer switch meets all National Electrical Code requirements for service entrance use. Transfer switches generally are installed at facilities that have a single utility feed and a single emergency power source.

ASCO Series 300SE products use two types of construction.

Products 400 amperes or less, utilize a single enclosure including a service (utility source) disconnect circuit breaker, as well as the power transfer switch, grounding and bonding provisions.

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.

Product Features:

- Suitable for use as service entrance equipment. Listed to UL 891 (standard for switchboards) for 600 - 3000 amps, sizes and UL 1008 (standard for panel-boards) for 70 - 400 amps.
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Sizes available from 70 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase
- Silver plated copper ground and neutral bus solderless screw type terminals
- Ground fault trip protection provided on sizes 1000 amps
- Available with solid or switched neutral

600 - 3000 Amp Construction

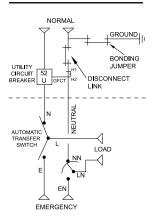




Fig. 16: ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure with Service **Entrance Equipment**

70 - 400 Amp Construction

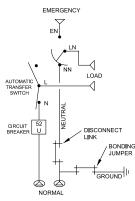




Fig. 17: ASCO SERIES 300 SE rated 200 amperes in Type 1 enclosure with single source breakers

Series 300SE Transfer Switch Ordering Information

To order an ASCO Series 300SE Power Transfer Switch, complete the following catalog number:

| 3AUS - | + B + | - 3 + | 400 | - | N - | + 1 + | - X - | H | C + | 11CD + | 240V/60 |
|---------|---------------------------------------|----------------------------------|--|---|--|------------|---|---------------------------------|---|---|---|
| Product | Neutral Code | Phase Poles | Amperes Continuous Rating | | tage ode | Controller | Options | Blank | ' '' | Optional Accessories | Specific Volt & Freq |
| 3AUS | B ¹ Switched Neutral | 2 poles, 1Ø 3 poles, 3Ø | 70, 100, 150, 200 ⁶ , 225 ⁶ , 250, 400, 600, 800, 1000, 1200, 1600, 2000 2500, 3000 | A ³ B ³ C D E F H J K L M N Q R | 115 120 208 220 230 240 380 400 415 440 460 480 575 600 | 1 | Insert "X" If optional accessories are required | F G H L M N P | Type 1 (Standard) Type 3R Type 4 ² Type 4X Type 12 ² Type 3R Secure Type 4 Secure Type 4 Secure Type 4S Secure Type 4S Secure Type 4S Secure Double Door SS Type 3RX ^{7,8} Secure Double Door SS | 11BG Programmable Engine Exerciser 14AA/14BA Auxiliary Contacts (2 sets) 44G Strip Heater w/Thermostat 72A Serial Module 72E Connectivity Module 73A Surge Suppressor | This information is necessary to allow correct control settings prior to shipment |

Notes:

- 1. Specify neutral code "C" for 250 and 400 amperes only.
- 2. Available 70-1000 ampacity. Use Type 3R for 1200-3000 amp applications.
- 3. 115-120 volt available 150-400 amps only.
- 4. A solid neutral is standard on 3AUS.
- 5. For switch sizes 70 225 amperes only.

- 6. 200, 225 amp rated switch suitable for use with copper cable only.
- 7. Type 316 Stainless Steel is standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
- 8. Available only on switches rated 1200, 2000, 2600, and 3000 Amps.



ASCO Series 300SE Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure⁴

| Switch Rating | Phase | Neutral | | Approx. Shipping | | |
|---------------------------------------|-------|---------|------------|------------------|-------------|-----------------|
| Amps | Poles | Code | Width | Height | Depth | Weight Lb. (kg) |
| | 2 | STD | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 400 (185) |
| 70, 100 ,150, | 2 | В | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 408 (188) |
| 200, 225 | 3 | STD | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 408 (188) |
| 200, 223 | 3 | В | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 416 (192) |
| | 2 | STD | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 400 (185) |
| 350, 400 | 2 | С | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 408 (188) |
| 250, 400 | 3 | STD | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 408 (188) |
| | 3 | С | 36.5 (927) | 48.5 (1232) | 13.25 (337) | 416 (192) |
| | 2 | STD | 38 (965) | 91 (2311) | 28 (711) | 800 (370) |
| cool cool | 2 | В | 38 (965) | 91 (2311) | 28 (711) | 820 (378) |
| 600 ¹ , 800 ¹ | 3 | STD | 38 (965) | 91 (2311) | 28 (711) | 820 (378) |
| | 3 | В | 38 (965) | 91 (2311) | 28 (711) | 846 (390) |
| | 2 | STD | 38 (965) | 91 (2311) | 48 (1218) | 1085 (501) |
| 10001 12001 | 2 | В | 38 (965) | 91 (2311) | 48 (1218) | 1105 (510) |
| 1000 ¹ , 1200 ¹ | 3 | STD | 38 (965) | 91 (2311) | 48 (1218) | 1105 (510) |
| | 3 | В | 38 (965) | 91 (2311) | 48 (1218) | 1134 (523) |
| 1600] 2000] | 3 | STD | 38 (965) | 91 (2311) | 48 (1218) | 2590 (1198) |
| 1600 ¹ , 2000 ¹ | 3 | В | 38 (965) | 91 (2311) | 48 (1218) | 2640 (1218) |
| 2500 ¹ , 3000 ¹ | 3 | STD | 38 (965) | 91 (2311) | 72 (1829) | 4590 (2118) |
| 2300,3000 | 3 | В | 38 (965) | 91 (2311) | 72 (1829) | 4655 (2148) |

UL Type 3R Enclosure⁴

| Switch Rating | Phase | Neutral | | Approx. Shipping | | |
|---------------------------------------|-------|---------|----------|------------------|----------|-----------------|
| Amps | Poles | Code | Width | Height | Depth | Weight Lb. (kg) |
| 70 100 150 200 225 | 2 | STD | 36(914) | 48(1219) | 16 (406) | 180 (83) |
| 70, 100 ,150, 200, 225 | 2 | В | 36(914) | 48(1219) | 16 (406) | 188 (87) |
| must specify | 3 | STD | 36(914) | 48(1219) | 16 (406) | 188 (87) |
| | 3 | В | 36(914) | 48(1219) | 16 (406) | 196 (90) |
| | 2 | STD | 36(914) | 48(1219) | 16 (406) | 440 (203) |
| 250, 400 | 2 | С | 36(914) | 48(1219) | 16 (406) | 448 (207) |
| 230, 400 | 3 | STD | 36(914) | 48(1219) | 16 (406) | 448 (207) |
| | 3 | С | 36(914) | 48(1219) | 16 (406) | 485 (225) |
| | 2 | STD | 41(1041) | 95.5(2426) | 34(864) | 990 (458) |
| 600 ¹ , 800 ¹ | 2 | В | 41(1041) | 95.5(2426) | 34(864) | 1010 (467) |
| 600,800 | 3 | STD | 41(1041) | 95.5(2426) | 34(864) | 1010 (467) |
| | 3 | В | 41(1041) | 95.5(2426) | 34(864) | 1036 (479) |
| | 2 | STD | 41(1041) | 95.5(2426) | 62(1575) | 1305 (604) |
| 1000 ¹ , 1200 ¹ | 2 | В | 41(1041) | 95.5(2426) | 62(1575) | 1325 (613) |
| 1000 , 1200 | 3 | STD | 41(1041) | 95.5(2426) | 62(1575) | 1325 (613) |
| | 3 | В | 41(1041) | 95.5(2426) | 62(1575) | 1354 (626) |
| 1600 ¹ , 2000 ¹ | 3 | STD | 41(1041) | 95.5(2426) | 62(1575) | 2890 (1337) |
| 1000,2000 | 3 | В | 41(1041) | 95.5(2426) | 62(1575) | 2940 (1360) |
| 2500 ¹ , 3000 ¹ | 3 | STD | 41(1041) | 96(2438) | 85(2159) | 5350 (2474) |
| 2500,5000 | 3 | В | 41(1041) | 96(2438) | 85(2159) | 5415 (2504) |

Notes: 1. Unit is designed for top and bottom cable entry for all services and load.

- 2. Enclosures for 600 3000 amps are freestanding.
- 3. When temperatures below 32° F can be experienced, special precautions should be taken, such as the inclusion of strip heaters, to prevent condensation and freezing of this condensation. This is
- particularly important when environmental enclosures (Type 3R, 4 & 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G).
- 4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

Extended Warranties for SERIES 300SE Transfer Switches

| Catalog No. | Description |
|-------------|--|
| 2EXW300SE | Two-Year Extended Warranty (Parts & Labor) |
| 3EXW300SE | Three-Year Extended Warranty (Parts & Labor) |
| 4EXW300SE | Four-Year Extended Warranty (Parts & Labor) |
| 5EXW300SE | Five-Year Extended Warranty (Parts & Labor) |

SERIES 300SE AIC Rating

| Switch Rating | AIC Rating | Voltage |
|----------------------------|------------|---------|
| 70, 100, 150, 200, 225 | 25,000 | 480 |
| 250, 400 | 35,000 | 480 |
| 600 | 50,000 | 480 |
| 800, 1000,1200, 1600, 2000 | 65,000 | 480 |
| 2500, 3000 | 100,000 | 480 |

SERIES 300SE External Power Connections Sizes UL-Listed Solderless Screw-Type Terminals

| Switch Rating | Ranges of AL-CU Wire Sizes (Unless Specified Copper Only) |
|--|--|
| 70, 100, 150, 200 [*] , 225 [*] | One #14 to 4/0 AWG |
| 250, 400 | Two 1/0 AWG to 250 MCM or One #4 AWG to 600 MCM |
| 600 | Two 1/0 AWG to 600 MCM |
| 800, 1000, 1200 | Four 1/0 to 600 MCM |
| 1600, 2000 | Six 1/0 to 600 MCM |
| 2500 | Twelve 3/0 to 600 MCM |
| 3000 | Twelve 3/0 to 600 MCM |

Note: All Series 300SE switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs. * 200 and 225 amp rated switch for use with copper cable only.

ASCO Series 300L Power Transfer Load Center

- Conventional double throw transfer switch configuration
- Automatic Transfer Switch is listed to UL1008, the standard for Transfer Switch Equipment, and meets NFPA 110 for Emergency and Standby Power Systems and the National Electrical Code (NEC) Articles 700, 701, and 702. Also certified to CSA 22.2 No. 178
- Rated up to 240VAC, 200, or 400 amps
- Available in Type 1 indoor, or Type 3R secure aluminum outdoor enclosure
- Reliable and field proven single solenoid operating mechanism
- Programmable microprocessor controller with flush mounted control and display panel
- LED indicators for switch position and source availability
- Engine exerciser for weekly automatic testing of engine generator set with or without load
- Two auxiliary contacts, one contact closed when switch is in normal position and one contact closed when switch is in emergency position
- Suitable as service entrance equipment, includes main circuit breaker overcurrent protection on the normal source, and circuit breaker disconnect device on emergency
- Includes a UL 67 Listed 42 position Square - D panelboard load center
- Local/remote communications capability for interfacing with ASCO POWERQUEST® communication products



ASCO 300L Automatic Power Transfer Load Center shown with optional quick connect Cam - Loc assembly and bottom Telco cabinet section (in type 3R secure aluminum enclosure)

Short Circuit Ratings

200A Mains: 22kA at 240vac (Main circuit breaker (Normal & Emergency) Square D circuit breakers rated 2/3 pole, 200A)

Note: If a generator input receptacle is supplied for a portable generator then the ratings are as follows:

Normal Source – 22kA at 240 vac (Utility Main Disconnect circuit breaker)

Emergency Source #2 (Permanent Generator Input circuit breaker) – 10kA at 240vac

Emergency Source -#1 (Portable Generator Input circuit breaker) – 5kA at 240vac

400A Mains: 42kA at 240vac. (Main circuit breaker (Normal & Emergency) Square D circuit breakers rated 2/3 pole, 400A)

Panelboard: Square D 225/400A series rated 42 circuit panelboard single/three phase with 100% rated neutral, accepts bolt - on or plug – in branch devices.



ASCO 300L Power Transfer Switch Ordering Information

| 300 | + L4 - | + 2 - | + 200 - | + | F · | + 5 - | + X - | + | C + | - 73TL1 - | + 240V 60Hz |
|---------|-----------------|----------------------------------|---------------------------------|--------|-----------------|------------|---|----|--|---|---|
| Product | Load Center | Poles | Amperes Continuous Rating | , | Voltage Code | Controller | Options | Er | closure | Optional Accessories | Specific Voltage & Freq |
| 300 | 4 = 42 Space | 2 poles, 1Ø 3 poles, 3Ø | 200 400 | C F | 208 240 | 1 | Insert "X" if optional accessories are required | М | Type 1 (Standard) Type 3R Secure (Outdoor) | 11BG - Programmable Engine Exerciser 14AA/14BA - Auxiliary Contacts (2 Sets) ¹ 37P - Generator Receptacle ² 44A - Strip Heater w/Thermostat 72A - Serial Module 72E - Connectivity Module 73 - Surge Suppression (TVSS) 85L - Power Manager 117IB - Interlock Breaker for Portable Generator 128TB - Telco Cabinet 130MG - Cam Loc ² | This Information is necessary to allow correct settings prior to shipment |

^{1.} Available on 300L, Power Transfer Load Center only. (two sets are standard) for 7000L SERIES.

Sizes UL-Listed Solderless Screw-Type Terminals

| 71 | | | | | | |
|-------------------------|-------------------------------------|--|--|--|--|--|
| Switch Rating (Amps) | Max # of Conductors per Terminal | Ranges of AL-CU Wire Sizes (Unless Specified Copper Only) | | | | |
| 200 | One | # 4 AWG to 250 MCM | | | | |
| 400 | One | # 1 AWG to 600 MCM | | | | |
| | Two | # 1 AWG to 250 MCM | | | | |

Dimensions for UL Type 1 and 3R Secured Enclosure

| Switch Rating | Phase | | Approx. Shipping | | |
|---------------------------------------|-------|---------|------------------|-------------|-----------------|
| Amps | Poles | Width | Height | Depth | Weight Lb. (kg) |
| Enclosed UL Type1 | | | | | |
| 200 | 2,3 | 30(762) | 78(1981) | 6(152) | 250(115) |
| 400 | 2,3 | 38(965) | 80(2032) | 7-1/4(184) | 300(138) |
| Enclosed UL Type3R Aluminum Secure | | | | | |
| 200 ¹ | 2,3 | 36(914) | 53(1346) | 11(279) | 305(141) |
| 400 | 2,3 | 38(965) | 84(2134) | 11-1/4(286) | 325(149) |

Note: 1. Add 20 inches to the height of the type 3R enclosure if accessory 128TB, Telco cabinet is required.

Extended Warranties for SERIES 300L Power Transfer Center Switches

| Catalog No. | Description |
|-------------|--|
| 2EXW300L | Two-Year Extended Warranty (Parts & Labor) Total 2 years |
| 3EXW300L | Three-Year Extended Warranty (Parts & Labor) Total 3 years |
| 4EXW300L | Four-Year Extended Warranty (Parts & Labor) Total 4 years |
| 5EXW300L | Five-Year Extended Warranty (Parts & Labor) Total 5 years |

Field Conversion Kits for SERIES 300L Transfer Switches

| Į | Kit No. | Description |
|---|-------------|---|
| s | K733433-001 | Single Phase Surge Suppression 240v/120v (Acc. 73V*1) |
| 7 | K733433-003 | Three Phase Surge Suppression 209v/120v (Acc. 73V*3) |

Note: 1. Consult ASCO for Type 3R secure enclosures

^{2.} Available for Type 3R enclosure only, rated 200 Amps. Not available for 400 Amp.

ASCO Series 300 Power Monitoring & Control

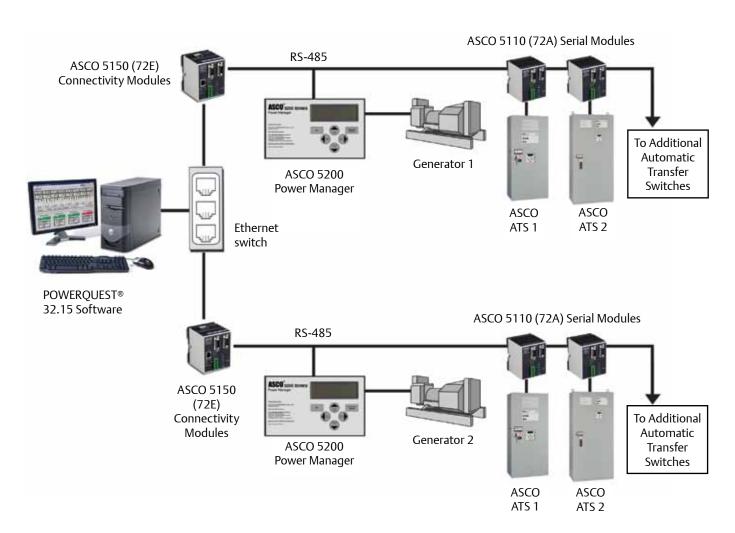
ASCO Connectivity Solutions

ASCO POWERQUEST® communications products allow for the monitoring and control of power transfer switches in your Emergency or Standby Power Distribution System. Local and remote networks are supported with either single or multiple points of access and web-enabled communications allow access to your power system from anywhere around the world.

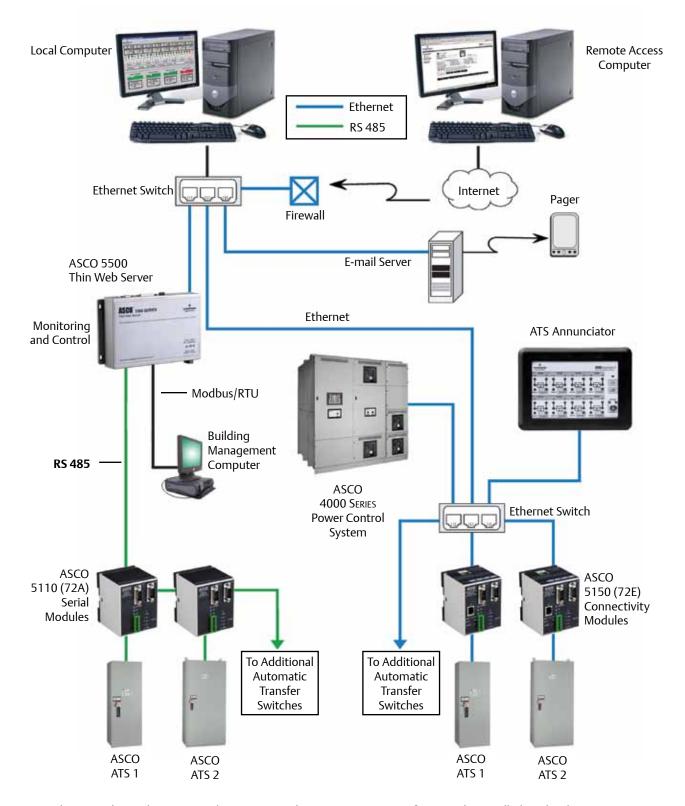
Features

- Monitors and controls Power Transfer Switches and Engine Generators
- Monitors normal and emergency voltages and frequency
- Indicates transfer switch position and source availability
- Provides transfer and re-transfer of loads for system testing
- View normal and emergency voltage and frequency settings
- View transfer switch time-delay settings
- Provides transfer switch rating and identification
- Automatic notification of alarms by E-mail
- View current, power and power factor with ASCO Power Managers connected to the system

POWERQUEST® **Typical Network Architecture**



ASCO Series 300 Power Monitoring & Control



The 5500 Thin Web Server is a client-server application requiring no software to be installed on the client computer. When combined with ASCO Communication Interface Modules (5110, 5150), it provides the most comprehensive Intranet and Internet communication system for the monitoring and control of power transfer switches and engine generators located in your emergency or standby power distribution system.

The communication system allows multiple client access, from local or remote locations, and provides for the monitoring of up to 64 power transfer switches and eight (8) engine generators. In addition, automatic paging is provided for all alarm signals.



ASCO Series 300 Connectivity Products

POWERQUEST® Solutions Comparison

| ASCO Connectivity Solution Guide Feature | POWERQUEST® 32.15 | 5500 Thin Web Server | 5150 Connectivity Module | 5350 Remote Annunciator |
|---|-------------------|-------------------------|-----------------------------|----------------------------|
| Quantity of Monitored / Controlled Power Transfer Switches per LAN | 32 | 64 | 1 | 8 |
| Number of Monitored / Controlled Gensets | 4 | 8 | 1 | 8 |
| Control & Monitoring Capability | Yes | Yes | No | Yes |
| Embedded Web Pages | No | Yes | Yes | Yes |
| Ethernet Network Compatible | Yes | Yes | Yes | Yes |
| Monitor Multiple Protocols & Baud Rates (ASCO I, ASCO II, Modbus) | No | No | Yes | Yes |
| Monitor Multiple Sites | Intranet | Internet | Intranet | Intranet |
| Multiple Client Access | No | Up to 8 | Up to 8 | Up to 8 |
| Client Software Required | Yes | Internet Explorer | Internet Explorer | Internet Explorer* |
| Monitors Dissimilar ASCO Controllers on Common LAN | No | No | Yes | Yes |
| Communicates with ASCO Remote Annuciators | No | No | Yes | Yes |
| E-mail / Paging Alarms | No | Yes | No | No |
| Historical Trending Option Alarms | No | Yes | No | Yes** |

^{*} Internet Explorer only required for initial communications set up

^{**} Historical trending not available on Remote Annunciator.



Fig. 19: Serial Module

5110 Serial Module

Cat. No: 5110 Acc. No: 72A

The Serial Module (5110) is used to allow local or remote connectivity with ASCO POWERQUEST® connectivity products. The module is used to connect Series 300 transfer switches to a serial network via an RS-485 interface. The module has two port connectors used for ATS & Stand-alone Power Manager connectivity. The serial connection is accomplished from a 5-pin terminal header/socket block. The serial network can support up to 32 devices.



Fig. 20: Connectivity Module

5150 Connectivity Module

Cat. No: 5150 Acc. No: 72E

The Connectivity Module (5150) is used to bring several different serial devices that communicate at different baud rates and with different protocols to a common Ethernet medium. The module is used to connect Series 300 transfer switches to a standard 10BaseT Ethernet TCP/IP network using standard RJ-45 connectors. The module contains built in JAVATM applets (program applications for an internet browser) for each monitored device that can load automatically to a standard Web Browser. The module is designed to communicate with up to 8 clients such as Web Browsers, and POWERQUEST® systems simultaneously over the ethernet connection.



5310 ATS Remote Annunciator

Cat. No: 5310

Based on the same core technology as the ASCO 5350 ATS Remote Annunciator (next page), the 5310 provides remote annunciation of transfer switch status and transfer/ retransfer control for a single transfer switch. Built-in Ethernet technology provide fast and reliable communications.

Fig. 21: Single Channel Automatic Transfer Switch Annunciator

ASCO Series 300 Power Connectivity Products



Fig. 22: Eight Channel Automatic Transfer Switch Annunciator

5350 ATS Remote Annunciator

Cat. No: 5350

The ASCO 5350 ATS Remote Annunciator is a stand alone device capable of providing individual status annunciation for up to eight transfer switches. Separate LEDs indicate switch status and position. Push buttons initiate transfer switch operation and testing. Transfer switch annunciators can also be set up in multiple locations to monitor the same devices, allowing for redundant annunciation of business-critical transfer switches.

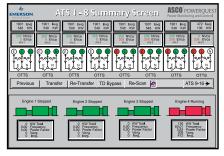


Fig. 23: ASCO POWERQUEST® 32.15

POWERQUEST[®] 32.15

POWERQUEST® 32.15 is a PC based monitoring and control system for ASCO devices. The local RS-485 network connects with up to 32 Power Transfer Switches and four Engine Generators. An analog phone connection and ASCO Telephone Interface Module allow for direct dial up, monitoring and control of remote locations. When combined with the ASCO 5110 Serial Module (Acc. 72A), the ASCO 5120 Telephone Interface Module, and the ASCO 5200 SERIES Power Manager, it provides the most economical communications system for monitoring and controlling Power Transfer Switches and Engine Generators.



Fig. 24: Thin Web Server

5500 Series Thin Web Server

Cat. No: A5510

The ASCO Thin Web Server allows you to monitor and control transfer switches and engine generators anytime over the Internet or an Intranet from anywhere in the world. It also transmits an E-mail message that an alarm has occurred with one or more of the transfer switches. Plus, this is possible from your home computer or anywhere that has Internet service, using the ASCO Thin Web Server with its embedded HTML web pages.



Fig. 25: ASCO 5200D SERIES Power Manager

5200 Series Power Manager

Cat. No: 5220D

The ASCO 5200 Series Power Manager is a microprocessor metering device specifically designed for transfer switch applications to provide real-time measurements of single and three-phase power systems. It uses digital signal processing technology to measure voltage and phase currents, which it uses to calculate real, reactive, and apparent power and bi-directional energy. All measurements can be displayed locally or at a remote PC via POWERQUEST®. It can also collect data for both normal and emergency positions using auxiliary contact inputs from the transfer switch. Eight digital input and four digital outputs available for customer use. The ASCO 5200 Series Power Manager is available with or without a stand alone NEMA 1 enclosure.



ASCO Power Technologies 50 Hanover Road Florham Park, NJ 07932 USA

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Connectivity Embedded Power Power Switching & Controls

DC Power Infrastructure Management & Monitoring Precision Cooling Surge Protection

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