

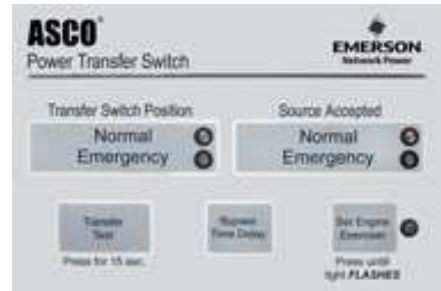


ASCO® Series 300

Series 300 Automatic Transfer Switch

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.

The 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



Electrical 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.

Standard Selectable Features

- Inphase monitor to transfer motor loads, without any intentional off time to prevent motor 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 time delay prior to transfer and reset 0 to 20 seconds after transfer.
- 60 Hz or 50 Hz selector switch.
- Three-phase/single-phase selector switch.

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 engine-starting signals.
- Transfer to emergency time delay. Adjustable from 0 to 5 minutes for controlled timing of load transfer to emergency.
- Retransfer 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 override momentary to ignore momentary voltage and frequency transients during initial genset loading.

Series 300

Optional Accessories

Accessory 11BG

A programmable engine exerciser that provides for weekly or biweekly operation, includes one form C contact for source availability of normal and emergency (contact rating 2 amps @ 30VDC, 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 switch for exerciser period.



Accessory 14AA/BA (not pictured)

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

Accessory 44A (not pictured)

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

Serial Module 5110 (RS-485) is used to allow local or remote communications with ASCO *PowerQuest*® or *SITEWEB*™ communications products. (See [Remote Monitoring Section](#))



Accessory 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.

Accessory 123

A protective window that includes a polycarbonate frame and weather gasket to provide secure access to the membrane interface for the Type 1 Enclosures. This lockable cover is an alternative to



ASCO Pulsar® 450 High-Performance Surge Suppressor

The ASCO Pulsar® 450 provides unparalleled protection from power surges and transients. It is a high-performance surge suppressor which limits large surges and transients through a unique array of computer-matched metal oxide varistors (MOVs).



Accessory 62W Audible Alarm with Silence Feature

For City of Chicago Code Requirement - audible alarm with silencing feature to signal each time transfer to emergency occurs. Keyed test switch/retransfer delay bypass, momentary in both directions. Keyed test switch maintained transfer to emergency. Includes feature 9C, signal light (PL3 - Green) indicates normal source available, and 9D, signal light (PL4 - Red) indicates emergency source available.

