



Power Transfer for Mission-Critical Applications

ASCO Power
Technologies™

ASCO 7000 SERIES
Low-Voltage Transfer Switches
with Open-Transfer PowerLogic
Source Controller



se.com

Life Is On

Schneider
Electric

ASCO 7000 SERIES Power Transfer Switches

ASCO 7000 SERIES Power Transfer Switches provide unmatched reliability and sophisticated control for the most demanding mission-critical backup power needs.

ASCO 7000 SERIES Transfer Switches are widely used in the most complex mission-critical hospital and healthcare facilities, enterprise and cloud-based data centers, telecommunication networks, water treatment plants, and any facility that requires the highest levels of power availability.

Every 7000 SERIES transfer switch is engineered-to-order to optimize switch functionality and provide facilities with the best solution for their specific application, and custom-engineering is available to meet any transfer switching need.

Backed by industry-leading technical support and service knowledge derived from a century of critical power switching experience, the 7000 SERIES solves the most demanding critical power challenges facing facilities today.



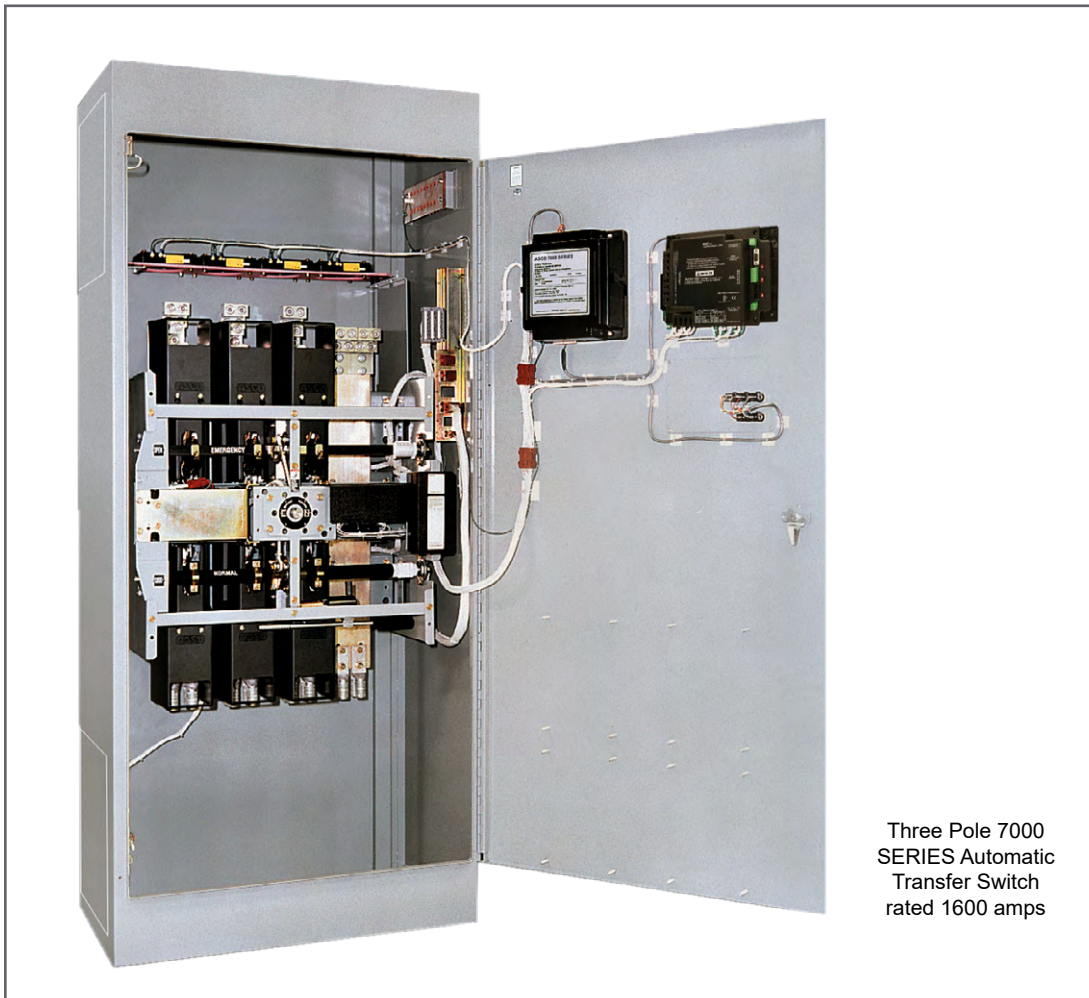
“With nine hospitals on the line, ASCO helps me sleep well at night.”

Tom M., Facility Engineering Director

7000 SERIES Power Transfer Switches

ASCO Power Transfer Switches are the standard of the industry. High-speed transfer of loads between alternate sources of power, regardless of ampacity, is achieved using a reliable, field-proven solenoid operating mechanism.

- Listed to UL 1008 Transfer Switch Equipment
- Rated up to 600 VAC, 30 through 4000 amps
- 3 to 18-Cycle Withstand and Close-on Rating Standard, 30-Cycle WCR Optional
- High Withstand and Close-on Rating, including Short-Time Ratings, support breaker coordination
- Solid, switched, or overlapping neutral configurations
- Front-replaceable main and arcing contacts on 800-4000 amp models
- Central terminal block for control connections on 260-4000 amp models
- Multiple auxiliary contacts for switch status indication
- Local and remote communications for serial and ethernet monitoring systems such as ASCO monitoring solutions or 3rd party BMS
- Comprehensive 2, 5, or 10 year warranty

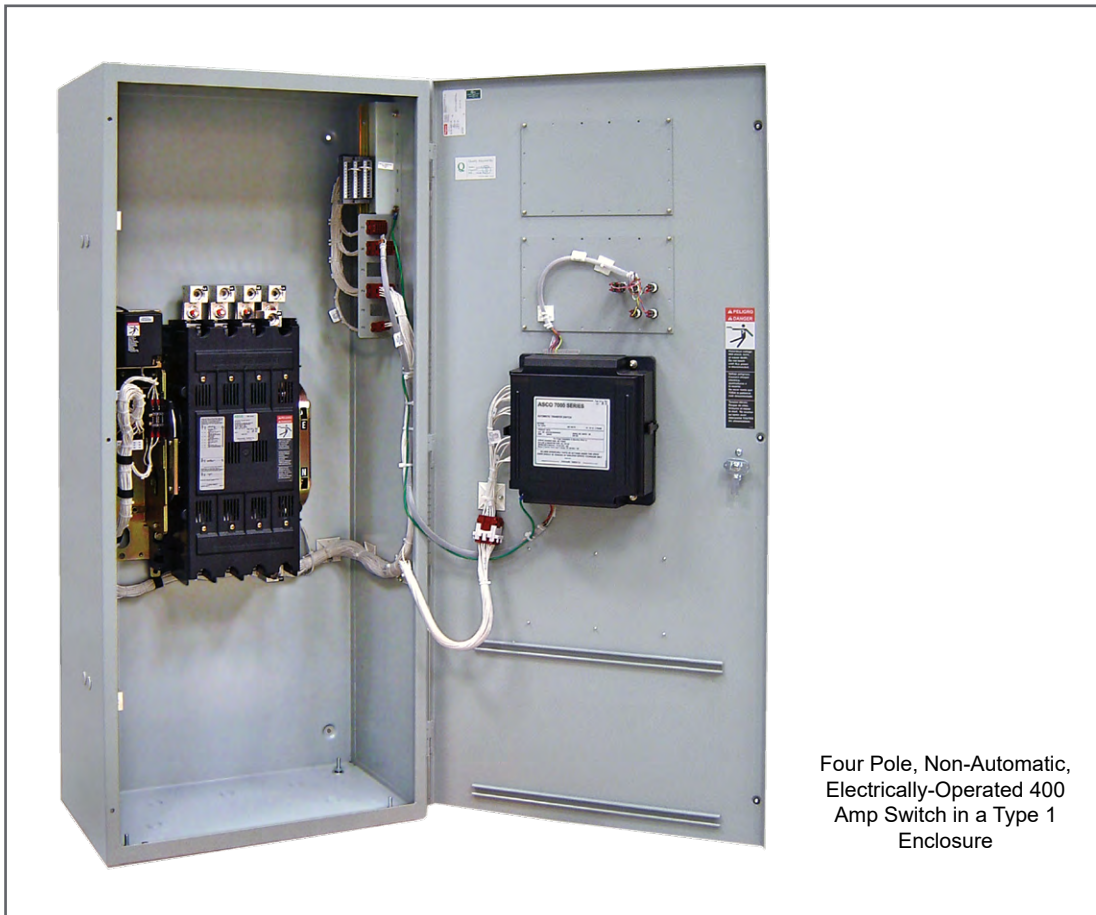


7000 SERIES Power Switching Solutions

Automatic and Non-Automatic Transfer Switching

ASCO Transfer Switches are available in automatic and non-automatic types. For automatic transfer switches, the controller initiates transfer. For non-automatic transfer switches, a user initiates transfer between power sources using local or remote switches. ASCO 7000 SERIES Transfer Switches offer the following features:

- Rated up to 600VAC, sizes from 30 through 4000 amps
- Low control circuit currents allow for long distances between remotely control switches and transfer switches
- Non-automatic models provide source acceptability lights to inform operator when sources are available to accept load

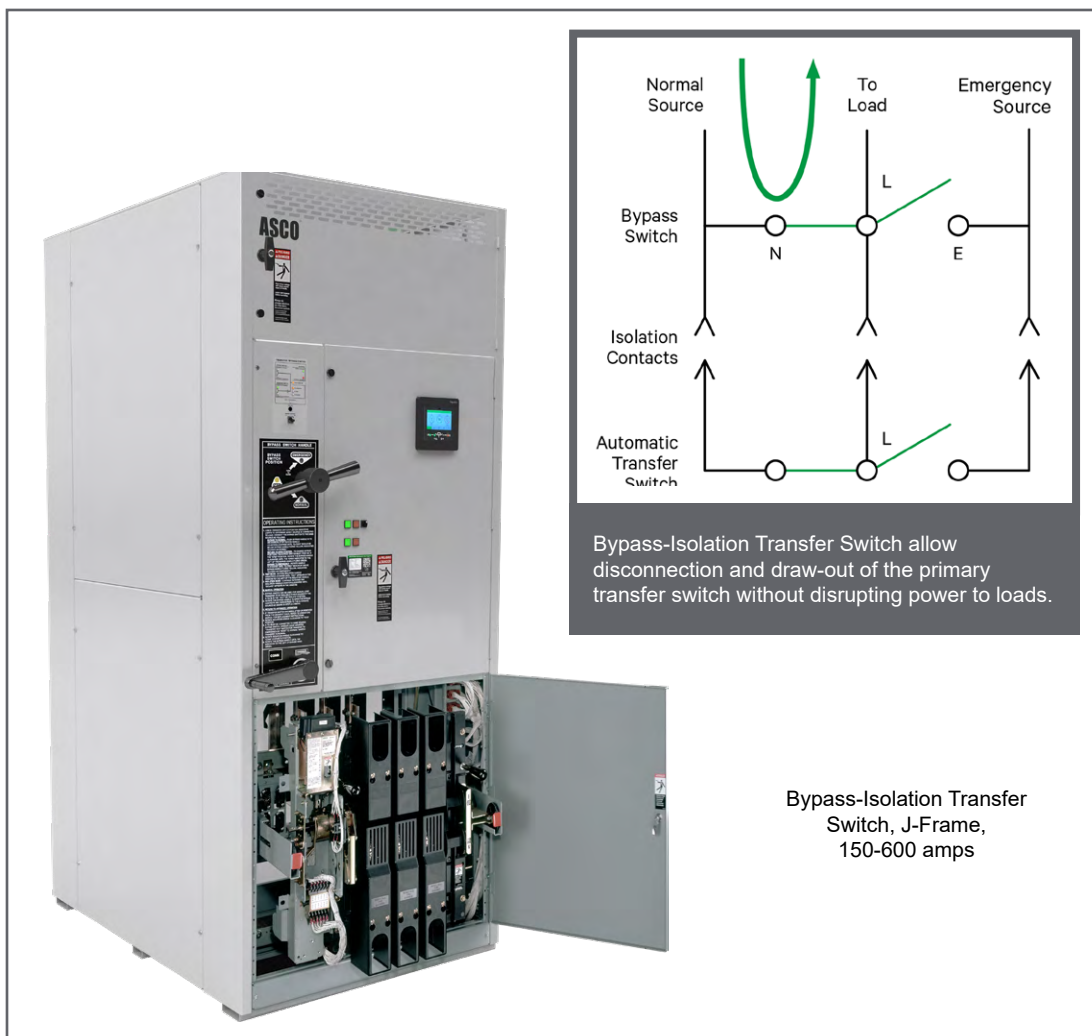


7000 SERIES Bypass-Isolation Switches

Bypass-Isolation Automatic Transfer Switches

ASCO Bypass-Isolation Automatic Transfer Switches are available with open transition sequence. The bypass-isolation features allow the primary automatic transfer switch to be inspected, tested, and maintained without interrupting power to the load. They also provide redundant power transfer if the ATS when the ATS is tested or serviced.

- 150 to 4000 amps
- Bypass switch and transfer switch have identical electrical ratings
- Mechanical interlocks prevent unintended operation
- Bypass contacts carry current only during bypass operation
- Draw-out design eases transfer switch maintenance
- Bypass switch is rated for use as a 3-position manual transfer switch
- Non load break bypass and isolation operations keep continuous power to loads
- Bypass and isolation functions require only two permanently mounted operating handles
- Mechanical indicators show bypass switch positions
- Shallow depth, front-connected, or rear-connected designs



7000 SERIES Service Entrance Switches

Service Entrance Power Transfer Switches

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with a disconnect and over-current protection device for the utility source. These switches are installed at facilities that have a single utility feed and a single emergency power source. A circuit breaker serves as the utility disconnect. This product is available up to 600V and 4000 amps.

- Available from 70 to 4000 amps, up to 600V
 - 70 - 400 amp listed to UL 1008
 - 600 - 4000 amp listed to UL 891
- UL 1008 Listed transfer mechanism
- Disconnect links on Neutral and Ground
- Internet-enabled monitoring and control
- ERMS added upon request
- Disconnect and over-current protective device on the utility source. 70 to 2000 amp models use molded case circuit breakers; 2500 to 4000 amp models use insulated case circuit breakers.



Custom-Engineered Transfer Switches

Optimized Solutions for Mission-Critical Performance

Create an exact power control solutions by integrating service equipment and protective devices and incorporating distribution equipment while accommodating unique application requirements. Custom engineered devices can save space, reduce delivery times, streamline installation and commissioning, enhance quality control, and reduce overall cost.

Integrated Distribution Breakers

Common distribution breaker applications include:

- Panels to house molded case circuit breakers
- Insulated case circuit breakers, with or without drawout capability
- Manually or electrically operated circuit breakers

Automatic Transfer Switchboard

- Connects multiple automatic transfer switches together in a common switchboard
- Circuit breakers on the normal and load sides of each switch
- An ammeter and voltmeter are also located on the load side of each switch



Transfer Switches can be custom-engineered to integrate service entrance equipment, distribution equipment, and more.



“ The maintenance is top notch and the technical support is amazing. ASCO service techs ... do what's right for the hospital, not just the job.”

Mark Y., Electrical Management Supervisor

Additional Available Custom Features

These examples are just a few of the configurations and features available through custom-engineered solutions. Additional possibilities include:

- Custom Metering
- Bus Riser
- Customized or compression lugs
- Source Fusing
- Utility-Specified Compartments

For more information, contact an authorized ASCO Power Technologies Representative.

7000 SERIES Controls and Indicators

PowerLogic Source Controller

Combining three control devices into one, the available PowerLogic Source Controller introduces innovative technology that delivers actionable insights to keep critical systems running. Designed for efficiency with autonomous updates and minimal downtime, it is engineered for simplicity with an intuitive, familiar experience and a seamless upgrade path.

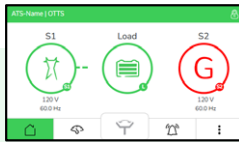
ASCO PowerLogic Source Controller Interface



Door-Mounted Control & Display Panel

- Home Screen
- Metering Screen
- Transfer Button
- Alarm Screen
- Settings Screen

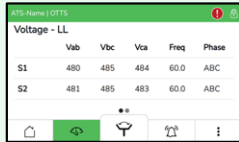
Status Indication



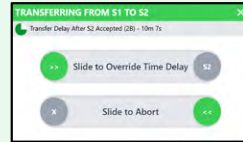
System Status: Displays system status in clear, concise language.



System Status: Alternate system status one-line view.

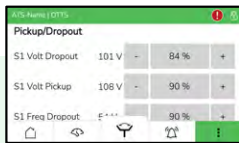


Metering Information: Displays voltage, frequency, and phase rotation.

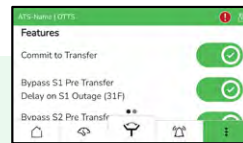


Active Time Delay Status: Displays time remaining until next control event.

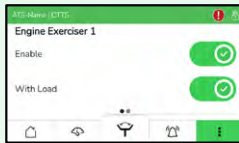
Settings



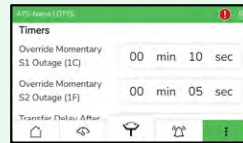
Voltage and Frequency Settings: Displays Source 1 and Source 2 settings. Pickup voltage, dropout voltage, and trip settings shown as percentages of nominal voltage and as rms voltages.



Feature Settings: Features are controlled through the settings menu. Shown is the screen controlling bypass pre-transfer time on Source 1 outage.



Engine Exerciser: Choose from two independent programs, load/no load selection, flexible run times, and daily, weekly, bi-weekly, and monthly exercise outlines.

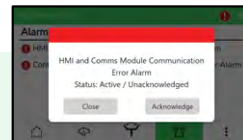


Time Delay Settings: Provides direct reading display for setting time delays.

Alarms and Events



ATS Statistics with Event Log: Displays detailed information for 1000 events, including time of occurrence, duration, date, and reason.




Intuitive Alarms: Alarm notices are easy to see, understand, and resolve. Source phase voltages and frequency are accessed from the bottom of event screens.

Transfer Switch Communications and Metering

Options to Customize Functionality and Increase Value

Product Details

 [5300 SERIES Annunciators](#)

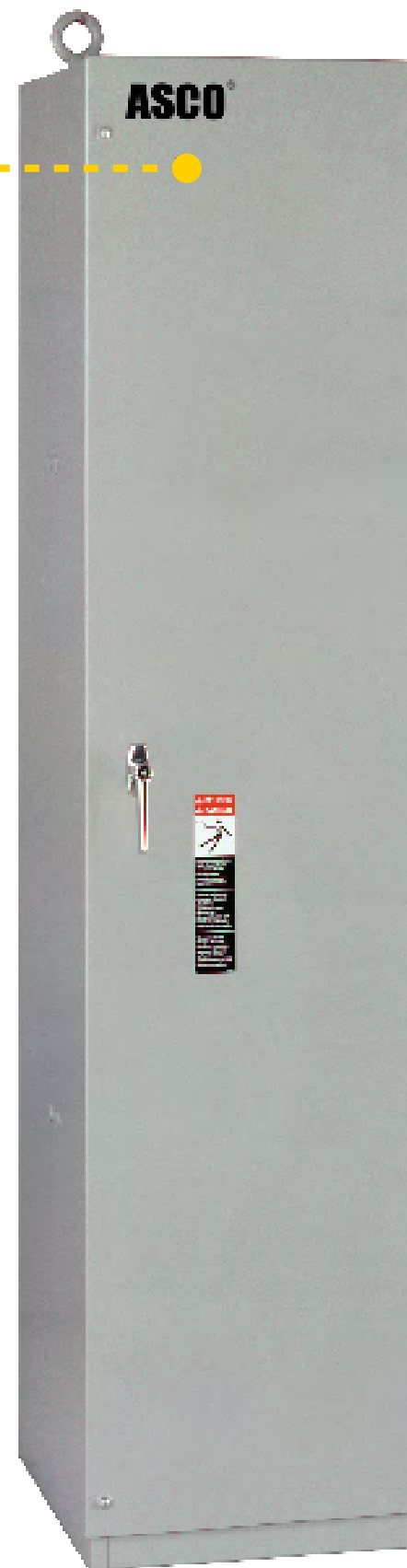
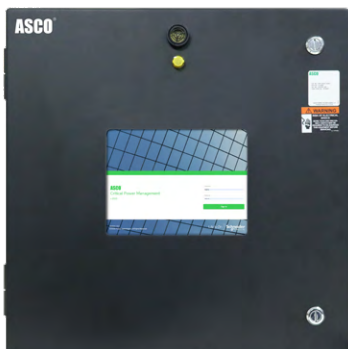
Remote Annunciation

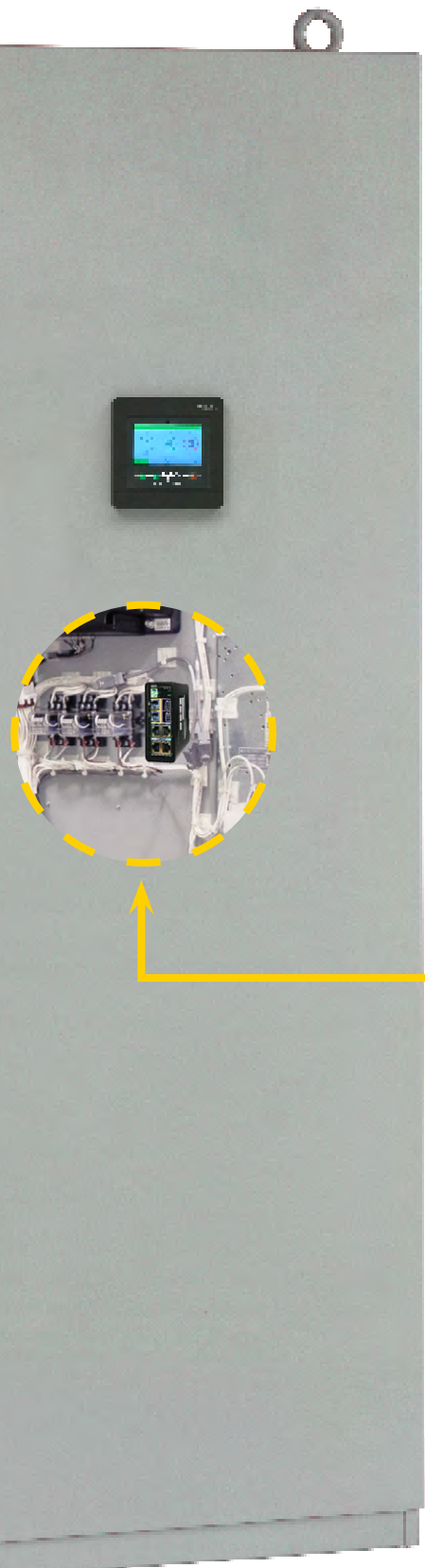
Monitor Power Equipment Status from Anywhere

Monitoring and control transfer switches from across the room, building, or from Internet.

5310 – LED annunciator – Single ATS

5350 – LED annunciator – up to 8 ATSS





Metering


Transfer Switches are the Perfect Place to Monitor Power Flow, Power Conditions, and Power Events


PowerLogic PM 5000™ Power Meter - Schneider Electric's compact, versatile metering for energy cost and basic network management applications

PowerLogic PM 8000 – Schneider Electric's compact, high-performance, power meter simplifies power quality and maximizes versatility. Provides additional insights with waveform capture and individual harmonic metering .



Product Details

 [PowerLogic PM5000](#)

 [PowerLogic PM8000](#)

Communication

Turn Transfer Switches into Power Information Portals

Connectivity Module – Makes status and power information from a single switch available to via ModBUS.

5701 8 Device Gateway – Provides centralized monitoring of up to 8 power devices through a transfer switch.

Connects generators, transfer switches, load banks, and more to web pages for increased monitoring and control.



Product Details

 [5701 Gateway](#)

7000 SERIES Optional Accessories

Time Delays and Extended Control Power

1G1	Auxiliary power connections provide for external 24VDC source to power control panel and power manager/meter when normal and emergency sources are not present or the switch is in isolation mode. Allows for use of full range of extended engine starting time delay feature 1C (0-60min 59 sec).
1GB1	Same as accessory 1G1 except using 120-volt AC external input.
1PS1	Extended control power ride-through (approx. 25 seconds) for Group 5 ATS controller and select communications and metering accessories, e.g. Acc. 72EE2, 72FC, 135L, etc.

Manual Controls for Automatic Transfer Switches

6DL	Selector switch for automatic/manual re-transfer to normal. Automatic bypass if emergency fails.
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Indicators and Customer Control Circuits

30A	Load-shed circuit initiated by opening of a customer-supplied contact.
30B3	24 VDC load-shed circuit initiated by removal of customer-supplied control voltage. (6, 12, 48, 120 VDC and 120 VAC also available).
31BG	Provides 2 sets of Form C contacts rated at 6A for each of the following status signals: normal source acceptability, emergency source acceptability, pre/post transfer signal.
99	"Push-to-Test" feature on all pilot light indicators.

Communications

72EE2	Offers remote Ethernet monitoring via open Mod bus and SNMP protocols, email notifications and embedded monitoring web pages. (Catalog No. 5170 for stand-alone product).
107G	Provides Building Monitoring Systems with transfer switch, bypass, and load power metering information in Modbus TCP/IP, BACnet IP, and SNMP Protocols. Compatible with any Accessory 150 Technology Package or 72EE2.

Surge Protection : ASCO 430 TVSS, rated 200 kA per phase

73CC1	Normal source protection. (3Ø, 4wire WYE)
73CC2	Emergency source protection. (3Ø, 4wire WYE)
73CC3	Load side protection. (3Ø, 4wire WYE)

Special Applications

29A	Manual selector switch for designating one of two utility feeds as the preferred source.
111A	Generator - to - Generator for Standby Applications
125A	Seismic Certification to International Building Code for electrical equipment
131	Certification of compliance with the American Recovery & Reinvestment Act (Buy American Provision)

Bypass-Isolation Switch Options

14A1	Auxiliary contact to close in "Bypass to Normal" position.
14B1	Auxiliary contact to close in "Bypass to Emergency" position.
14T	Bypass Auxiliary contact closed when bypass switch is in auto position.
14U	Isolation Auxiliary contact closed when isolation handle is in closed position.
14V	Isolation Auxiliary contact closed when isolation handle is in open position.
82E	LED Bypass status indicator, optional on G frame, 1600 to 4000 amps only. Standard for all other switches.

Metering

135L	ASCO Digital Power Meter monitors load source voltage, frequency, and current and calculating Power, Energy, and Power Factor.
135SB	ASCO Digital Power Meter monitors load source voltage, frequency, and current and calculating Power, Energy, and Power Factor. With additional IO for bypass position indication through communications.

Heater

44A	120VAC, 208-240VAC and/or 440-480VAC Accessory 44 Strip heater designed to keep humidity and/or temperature inside ATS enclosure within acceptable levels. Includes mounting bracket with strip heater, thermostat, and terminal block.
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Bundles

150A	ASCO Digital Power Meter (Acc. 135L), Backup Power Source (Acc. 1PS1), Communications Module (Acc. 72EE2)
150B	5210 Power Meter with Moxa IO (Acc. 135SB), Backup Power Source (Acc. 1PS1), Comm. Module (Acc. 72EE2)

Withstand and Close-on Ratings

Withstand and Close-on Ratings for all 7000 SERIES Power Transfer Switches, including 0.5 second (30-cycle) designs.

Frame	Switch Rating (Amps)		Current Limiting Fuses				Specific Breaker			Time Based				Short Time Ratings ³ (sec)						
	Transfer Switches	Bypass Switches	480V Max.	600V Max.	Max Size, A	Class	240V Max.	480V Max.	600V Max.	Time (sec)	240V Max.	480V Max.	600V Max.	480V Max.			600V Max.			
														.13	.2	.3	.5	.1	.13	.3
D	30	-	100kA	-	300	J	22kA	25kA	10kA	0.025	10kA	10kA	10kA	-			-			
			200kA	35kA	200	J								-			-			
			35kA	35kA	200	RK1								-			-			
D	70, 100	-	35kA	35kA	200	RK1	150kA	85kA	25kA	0.025	10kA	10kA	10kA	-			-			
			200kA	35kA	200	J								-			-			
			200kA	35kA	200	J								-			-			
D	150	-	35kA	35kA	200	RK1	150kA	85kA	25kA	0.025	10kA	10kA	10kA	-			-			
			200kA	35kA	200	J								-			-			
D	200	-	200kA	35kA	200	J	200kA	85kA	14kA	0.025	10kA	10kA	10kA	-			-			
			35kA	35kA	200	RK1								-			-			
D	230	-	100kA	-	300	J	200kA	85kA	14kA	0.025	10kA	10kA	-	-			-			
E	260, 400	-	200kA	-	600	J	65kA	42kA	22kA	0.05	35kA	35kA	22kA	-			-			
J	150, 200, 230, 260	150, 200, 230, 260	200kA	200kA	600	J	200kA	200kA	100kA	0.05	65kA	42kA ⁵	35kA	7.5kA	-			-		
					800	L									-			-		
J	400	400	200kA	200kA	600	J	200kA	200kA	100kA	0.05	65kA	42kA ⁵	35kA	7.5kA	-			-		
					800	L									-			-		
J	600	600	200kA	200kA	800	L	200kA	200kA	100kA	0.05	65kA	42kA ⁵	35kA	7.5kA ⁹	-			-		
					200kA	200kA									600	J	-			-
H ⁸	600	600	200kA	200kA	1600	L	65kA	150kA ⁶	65kA	0.05	50kA	50kA	50kA	36kA	-	36kA	-			
P ⁸	600	600	200kA	200kA	1600	L	65kA	150kA ⁶	65kA	0.05	50kA	50kA	50kA	36kA	30kA	36kA	-			
P ⁸	800	800 - 1200	200kA	200kA	1600	L	65kA	150kA ⁶	65kA	0.05	50kA	50kA	50kA	36kA	30kA	36kA	-			
H	800 - 1200	800 - 1200	200kA	200kA	1600 ⁴	L	65kA	150kA	65kA	0.05	50kA	50kA	50kA	36kA	-	36kA	-			
Q ⁸	600-1600	600-1600	200kA	200kA	2000	L	65kA	65kA	65kA	0.05	65kA	65kA	65kA	50kA			50kA			
S ⁸	800 - 1200	800 - 1200	200kA	200kA	2500	L	100kA	100kA	65kA	0.05	100kA	100kA	65kA	65kA			65kA			
G ⁸	1000 - 1200	1000 - 1200	200kA	200kA	2000	L	85kA	85kA	85kA	0.05	85kA	85kA	85kA	-			-			
G	1600 - 2000 (Front Connected TS Only)	-	200kA	200kA	2500	L	85kA	85kA	85kA	0.05	85kA	85kA	85kA	42kA	36kA	-				
G ⁸	1600 - 2000	1600 - 2000	200kA	200kA	3000	L	200kA	200kA	100kA	0.05	100kA	100kA	100kA	42kA	36kA	42kA	-			
S ⁸	1600 - 2000	1600 - 2000	200kA	200kA	2500	L	100kA	100kA	85kA	0.05	100kA	100kA	85kA	85kA	65kA	85kA	65kA	65kA	65kA	
G	2600 - 3000	2600 - 3000	200kA	200kA	4000	L	125kA ⁶	125kA ⁶	100kA	0.05	100kA	100kA	100kA	42kA	36kA	42kA	-			
G ⁸	3200	-	200kA	-	4000	L	100kA	100kA	-	0.05	100kA	100kA	-	-						
G	4000	4000	200kA	200kA	5000	L	100kA	100kA	100kA	0.05	100kA	100kA	100kA	85kA	65kA	65kA				
U ⁸	2600 - 4000	2600 - 4000	200kA	200kA	5000	L	125kA	125kA	125kA	0.05	125kA	125kA	125kA	100kA			100kA			

Notes:

- All WCR values indicated are tested in accordance with the requirements of UL 1008, 7th Edition. See ASCO Pub. 1128 for more WCR information
- Application requirements may permit higher WCR for certain switch sizes.
- Short Time ratings are provided for applications involving circuit breakers that utilize trip delay settings for system selective coordination
- Max fuse rating is 1200A on front connected H frame switches
- Switches utilizing overlapping neutral (code "C") have 35kA, 0.050 Sec time based rating at 480V Max
- Rating shown is for Bypass switches only, Transfer Switch rating is 100kA for the G frame and 65kA max for the H and P frames. See ASCO Pub. 1128.
- See ASCO for Service Entrance Switch ratings
- These frames are only available on the 7000 Series product
- Short Time Rating applies to 600A Bypass switch only, the 600A Transfer Switch does not have a Short Time Rating

All units are RMS Symmetrical Amperes.

All Withstand and Close-on Rating (WCR) values are established by testing in accordance with UL 1008. For the latest ratings, including transfer switch ratings when used with specific circuit breakers, see **ASCO Publication 1128** for more WCR information.

Application characteristics may permit higher WCRs for certain switch sizes. Contact ASCO Power Technologies for more information.

Contact ASCO for Service Entrance Switch ratings.

Life Is On



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