

# UL 1008 Automatic Transfer Switch (ATS)

IEM's Automatic Transfer Switch (ATS), equipped with a breaker/switch transfer pair, provides increased reliability and reduced maintenance as compared to solenoid-based operators.

Integrated overcurrent protection is optionally available within the same footprint. The switching elements can be non-automatic switches or breakers in either 3P or 4P configurations.

The ATS is controlled by the Woodward/IEM DTSC/XFER-200, which has an easy to use interface and supports a wide variety of communications and I/O options, including programmable logic capabilities. Our ATS's are rated for emergency applications and suitable for critical and non-critical loads.

## FEATURES & BENEFITS

- Ratings:
  - Current: 800A-4000A
  - Voltage: 208/240/480/600VAC
  - Short-circuit withstand: 65/85/100/150kA
  - 3 Cycle or optional 30 Cycle Ratings Available
  - Breakers/Switches: Siemens WL Series. 3P/4P, Fix Mount or Draw-out
  - Access/Entry: Rear top or bottom
  - Enclosure: Type 1 or Type 3R
- Open-, delayed-, or closed-transition operation
- Automatic or non-automatic (manual) control
- Seamless integration with IEM LV switchboards and switchgear
- Optional Service Entrance rating
- Optional integrated overcurrent protection
- Optional bypass/Isolation models
- Optional Dual Source applications (Utility or Gen)

## CONTROL FEATURES

The DTSC is a premium controller with advanced features:

- Event recorder with time stamping
- Back-lit LCD display
- Alarm functions and self-monitoring capabilities
- Versatile programmable logic capabilities
- Programmable generator test (Load and No Load) feature.
- Engine Start Delay Timer, Neutral Delay Timer (Open Transition)
- Peak Shave Mode

## Full Customization and Design Flexibility

Fully Rated Bus Based on Density Ratings

Indoor and Outdoor Applications

Seismic Ratings Available

Component and Metering Selection Available

Reliable: Switching elements rated 4,000 cycles without maintenance

Fully tested per UL 1008, meeting or exceeding overload, endurance, full load, and short circuit tests.

UL and cUL listed and certified to UL 1008 and CSA C22.2 No. 178.



# UL1008 Automatic Transfer Switch

Product Sheet  
LV TRANSFER SWITCH

## STANDARD ATS CONTROL FEATURES

All of the standard user interface / control features detailed in the DTSC/XFER-200 manual plus:

### Control Signals, inputs

- ATS enable/inhibit input
- Re-transfer inhibit input
- Closed transition bypass input (if applicable)
- Standby source transfer request input
- Standby source inhibit / external load shed input

### Control Signals, outputs

- (1) NO and (1) NC breaker position contacts
- (1) NO ready for auto contact
- (1) NO source availability contact for each source
- (1) NO and (1) NC generator start contacts
- (1) NO and (1) NC common alarm contacts

## OPTIONAL ATS CONTROL FEATURES

### Functions

- Closed transition capability with passive synchronization
- Automatic active synchronization or soft load transition
- Power metering with overload alarm and load shed functions

### Control Power

- Capacitor buffer to maintain local display and comms during transfers
- Redundant external control power input

### Communications

- Modbus RTU or TCP interface for monitoring, control, and metering
- Remote manual/SCADA operation

### Control Signals

- Programmable Pre Transfer Contacts (Elevator contacts)
- Load Shed Contact

- Motor Load Disconnect Contact
- Standard I/O can be repurposed for custom functions
- Expandable I/O for additional custom logic/PLC capabilities



Transfer Switch XFER-200 controller and LCD display

## IEM DIFFERENCE

Fully rated bus is based on density ratings, not UL heat rise tests, resulting in more bus and lower operating temperatures.

All enclosures are designed for specific application with improved dimensional flexibility and finished using state of the art powder coating system providing an indoor finish that exceeds the 1500 hour salt spray testing requirement for outdoor equipment to 3000 hours.

Component and metering selections are based on value engineering for the application and optimized to meet specifications.

### Industrial Electric Mfg.™ (IEM)

Headquartered in Fremont, CA, IEM is the largest independent full-line manufacturer of electrical distribution and integrated control systems in the U.S. For over half a century, IEM has delivered customer-specific solutions to meet the ever changing power requirements of growth industries in North America. At IEM, tradition and technology still drive innovation. An experienced engineering staff and one of the most flexible design and manufacturing systems in the industry set IEM apart from standard product manufacturers.



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