Overview

ASCO 7000 SERIES Medium Voltage Transfer Switches provide mission-critical power continuity for healthcare facilities, data centers, telecom exchanges and industrial facilities.

Key attributes include:

- Standard, Bypass, and Dual-Switch Configurations
- 1200 to 3000 Ampere Models for 5 kV and 15 kV Applications
- 25, 40 or 50 kA Interrupt Capacity
- Available Seismic Certification
- Listed to UL1008A - Standard for Medium Voltage Transfer Switches
- Built To ANSI/IEEE C37.20.2 Standard for Metal-Clad Switchgear

Rugged ANSI C37.20.2 Metal-Clad Design

ASCO 7000 SERIES Medium Voltage Transfer Switches feature ANSI C37.20.2 metal-clad construction. Advantages include:

- Dual, electrically operated, mechanically interlocked circuit breakers offer fast reliable operation
- Draw-out mounting for main switching and interrupting devices facilitates testing and service
- Electrically operated circuit breakers offer fast operation
- Extensive compartmentation enhances fault isolation and limits contact with energized equipment
- Shutters extend to cover primary electrical elements when interrupters are withdrawn
- Insulated bus protects against shorts and shunts from incidental contact
Flexible Configurations for Advanced Redundancy

A Standard Two-Breaker Transfer Switch for Transferring Loads Between Two Sources

A Two-Breaker Transfer Switch with Bypass-Isolation Capability that Avoids Interruptions to Loads and Facilitates Testing and Maintenance

A Two-Breaker Transfer Switch that Bypasses to a Second Two-Breaker Transfer Switch, Enabling Load Transfer Between Sources Even in Bypass Mode
Four Available Transition Modes

- **Open Transition**:
  - Normal: ~40ms
  - Emergency: 

- **Delayed Transition**:
  - Normal: seconds to minutes
  - Emergency: 

- **Closed Transition**:
  - Normal: <100ms
  - Emergency: 

- **Soft Load**:
  - Normal: 
  - Emergency: 

**Features**

- **Transfer Switch**
  - Emergency Source Circuit Breaker
  - Emergency Source Circuit Breaker Switch
  - Normal Source Breaker Control Switch
  - Normal Source Circuit Breaker

- **Controls**
  - Voltage Transformer
  - Transfer Control Lights
  - Controller
  - Transfer Switch Control
  - Customer Terminal Block
  - Voltage Transformer
Key Components

Transfer Control Center

![Transfer Control Center](image)

Group 5 Controller
- Time Delays
- Voltage and Frequency Sensing
- Status and Control Functions

ASCO Control Panel
- Status Information at a Glance

Control Switches

Mode Selector Switch
- Select between Automatic and Manual Modes
- Electrical Interlocks prevent simultaneous closure of Normal and Emergency source breakers

Breaker Control Switch
- Every circuit breaker includes a breaker control switch for manually opening and closing breakers when the system is in Manual Mode
- Operator can open breakers in any control mode
- Operator can only close breakers in Manual Mode

Circuit Breakers

Square D VR Vacuum Breakers
- Horizontal draw-out for service and testing
- Vacuum breakers are hermetically sealed
- Matched circuit breakers for interchangeability

Rating Summary

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<tr>
<th></th>
<th>5 kV Class</th>
<th>15 kV Class</th>
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<tbody>
<tr>
<td>Voltage Rating</td>
<td>4.76 kV</td>
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<tr>
<td>Service Current</td>
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<td>1200 A 2000/3000 A</td>
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<tr>
<td>Interrupt Current</td>
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<td>Min. Quantity of Sections</td>
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<td>Cable Barriers</td>
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