

# GE Zenith Controls ZT30™ 30-Cycle Automatic Transfer Switch

The ZT30 is a UL1008 listed Automatic Transfer Switch with a 30-cycle short time rating for both withstand and close-on operation.

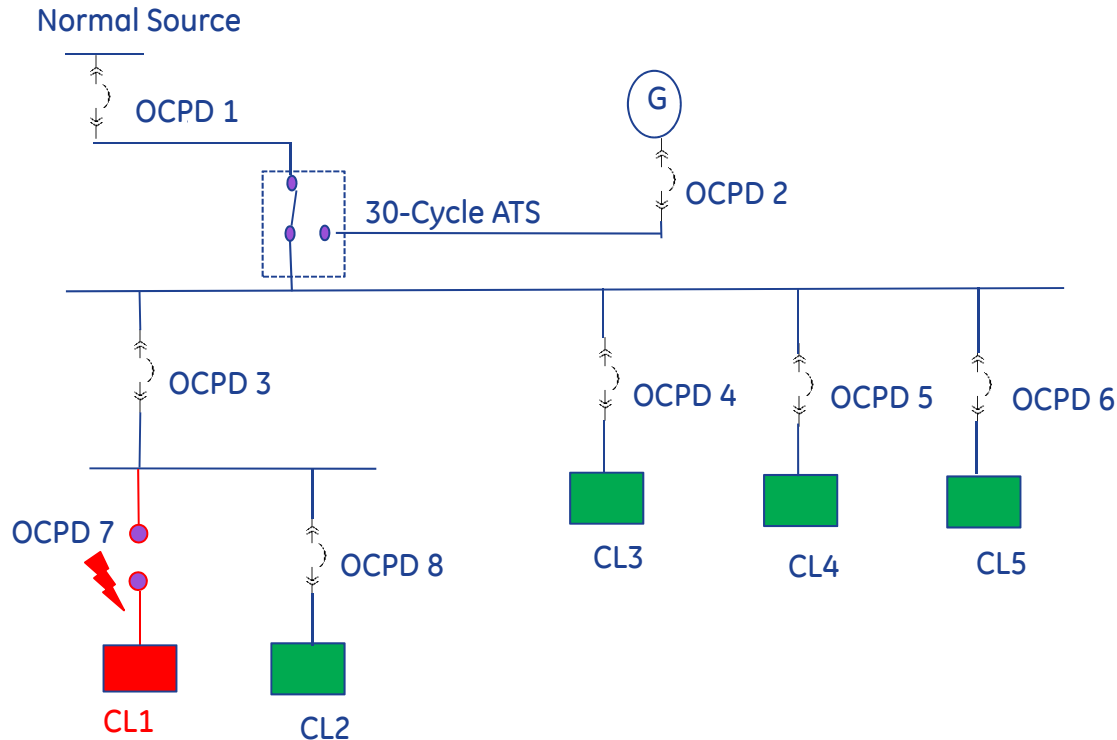


# GE Zenith Controls ZT30™ 30-Cycle Automatic Transfer Switch

- Facilitates Selective Coordination System Design
- Maximizes System Availability
- Supplies 100% rated power to loads after short circuit/withstand event
- Industry Leading Short Time Rating for Withstand and Close-on



# Facilitates Selective Coordination Design



A true selective coordination design must ensure that every Over Current Protective Device (OCPD) has higher overcurrent rating and a longer time-delay than the one below it, so that every fault will be cleared by the OCPD immediately “upstream” of the fault

- If Fault occurs at CL1, only OCPD7 should open...all other loads should remain operational
- The ATS must withstand a fault, close on potential fault and be functional after the fault to be properly coordinated...it must have a **“UL Short Time Rating”**

# Reliability / Performance

- Industry-leading durability and fault tolerance  
**(85kA Short Time Rating)**
- Maximizes system uptime/reliability
  - Withstands and closes on a fault
  - Supplies 100% rated power to loads after overcurrent event



# Reliability / Performance

- Electrical and Mechanical Interlock prevents Source 1 and Source 2 from being inadvertently closed at the same time (Standard/Delayed Transition)



# Safety: Manual Quick Make/Quick Break

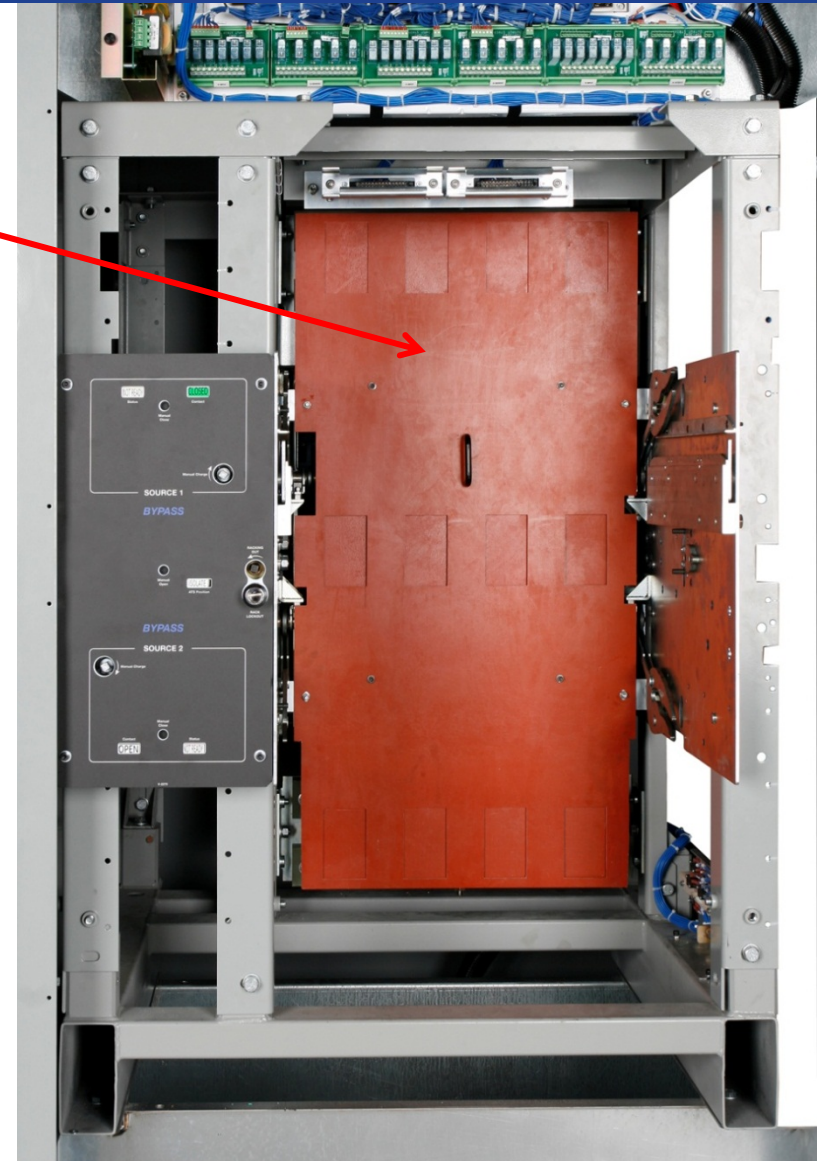
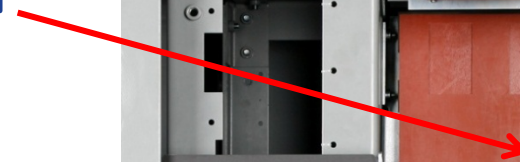
- ZT30 ATS enables operators to perform manual transfers with the door closed
- Manual transfers can be performed on a fully loaded switch



# Safety: Shutter System



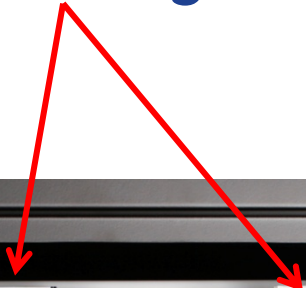
Shutter  
System



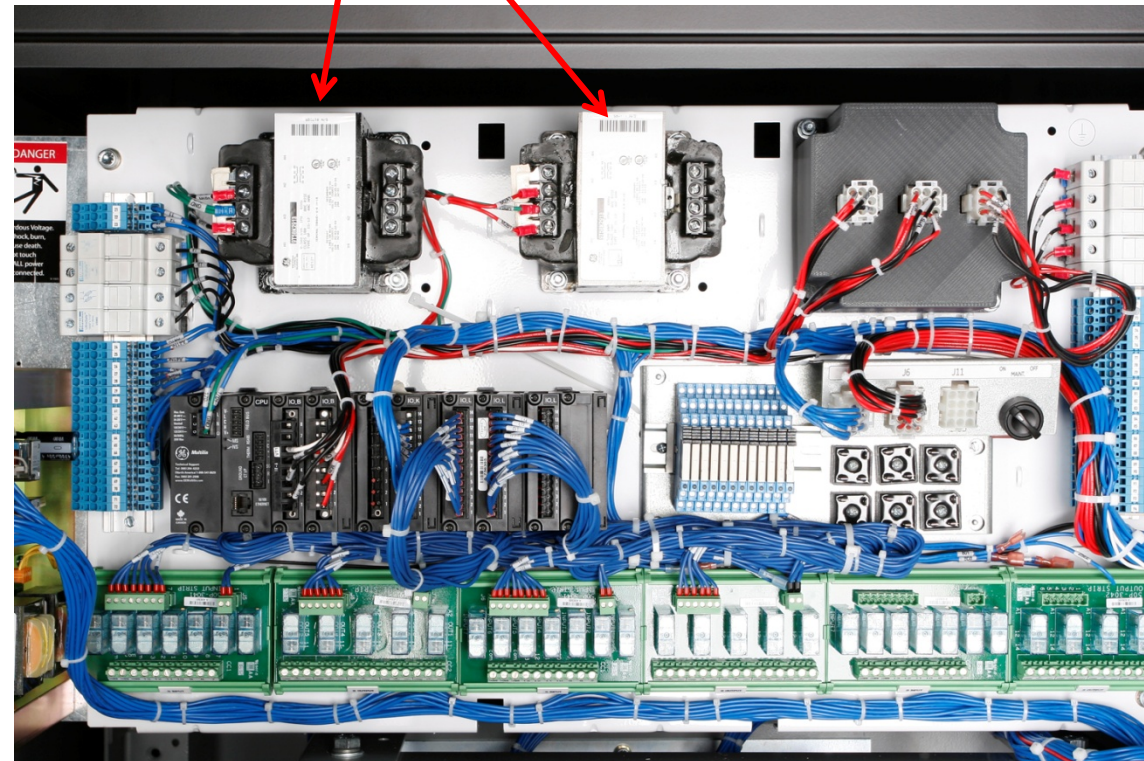
“Shutter System” adds  
another of layer of protection  
during maintenance

# Ease of Use / Flexibility: Centralized Terminal Connection

Multi-tap transformer enables operation on a wide range of system voltages



Centralized  
Location for  
Customer  
Interconnects



# Ease of Use / Maintenance: Plug & Play Interchangeable Termination Kit



Kit enables installers to easily and quickly reconfigure the designation of Source 1 and Source 2 lugs

“Plug and Play”  
Interchangeable Source  
Cable Termination kit



# Ease of Use / Maintenance: Mechanical Position Indicator

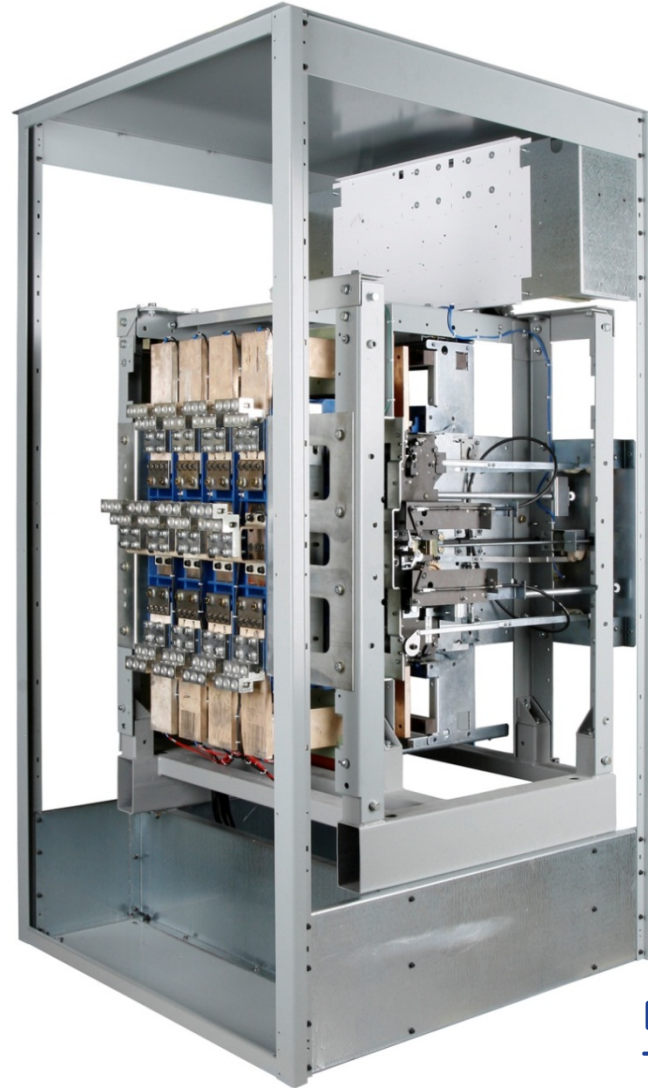
Mechanical Position Indicators enable personnel to quickly determine the switch's position



# Space Optimization / Flexibility:

## Small Footprint/Removable Panels/Top or Bottom Cable Entry

The ZT30's small footprint and removable panels (side/back) provide space optimization and easy access for maintenance



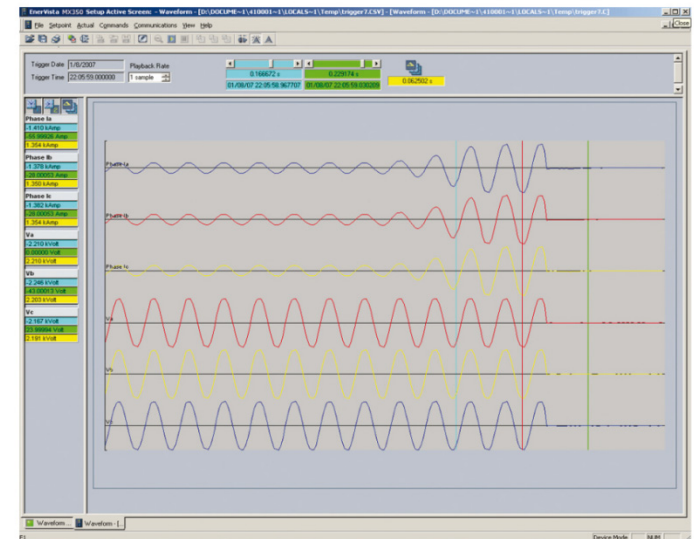
# Advanced Control Features

- Ease of Operation
- Advanced System Troubleshooting
- Diagnostics and Event Recording
- Power Quality Metering
- Enhanced Connectivity



Diag\Events 10 Apr 08 12:12			
Total Number of Events Since Last Clear		10	
Events #:1 - 10		Loading.. Complete	
#	Date/Time	Cause	
10	28 Mar/14:34:20.300	S1 & S2 Fail to Open	
9	28 Mar/14:34:16.160	Phase Rotation Error	
8	28 Mar/08:20:18.070	Sources Out of Phase	
7	28 Mar/08:20:17.690	S1 Lmt Sw Not Closed	
6	28 Mar/08:19:16.490	S1 & S2 Fail to Open	
5	27 Mar/20:34:48.660	Phase Rotation Error	
4	27 Mar/10:18:24.400	Sources Out of Phase	
3	27 Mar/10:18:24.030	S1 Lmt Sw Not Closed	
2	27 Mar/10:18:21.010	S1 & S2 Fail to Open	

Sequence of Events Recorder



Waveform Capture/Oscillography

# Zenith ATS Product Families

Families	Target Applications	Amperage Range	Voltage Range	Number of Poles	Transition Type	Enclosure Type	Controller
<b>ZT30</b>	Life/Public Safety, Mission Business Critical Facilities (Selective Coordination)	1000A -3000A	120V - 600V	3 or 4	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Delayed</li> <li>• Closed</li> <li>• Bypass</li> </ul>	<ul style="list-style-type: none"> <li>• Open</li> <li>• NEMA 1</li> <li>• NEMA 3R</li> <li>• NEMA 4</li> <li>• NEMA 4X</li> <li>• NEMA 12</li> </ul>	<ul style="list-style-type: none"> <li>• MX250</li> <li>• MX350</li> </ul>
<b>ZTE</b>	Business/ Mission Critical	40A - 4000A	120V - 600V	2, 3 or 4	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Delayed</li> <li>• Closed</li> <li>• Bypass</li> </ul>	<ul style="list-style-type: none"> <li>• Open</li> <li>• NEMA 1</li> <li>• NEMA 3R</li> <li>• NEMA 4</li> <li>• NEMA 4X</li> <li>• NEMA 12</li> </ul>	MX350
<b>ZTS</b>	Spec Grade & Custom App	40A - 4000A	120V - 600V	2, 3 or 4	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Delayed</li> <li>• Closed</li> <li>• Bypass</li> </ul>	<ul style="list-style-type: none"> <li>• Open</li> <li>• NEMA 1</li> <li>• NEMA 3R</li> <li>• NEMA 4</li> <li>• NEMA 4X</li> <li>• NEMA 12</li> </ul>	MX250
<b>ZTG</b>	General Purpose Commercial & Industrial	40A - 3000A	120V - 600V	2, 3 or 4	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Delayed</li> </ul>	<ul style="list-style-type: none"> <li>• Open</li> <li>• NEMA 1</li> <li>• NEMA 3R</li> <li>• NEMA 4</li> <li>• NEMA 4X</li> <li>• NEMA 12</li> </ul>	MX150
<b>ZTX</b>	Small Frame Residential/ Light Commercial	40A - 400A	120V - 480V	2, 3 or 4	<ul style="list-style-type: none"> <li>• Standard</li> </ul>	<ul style="list-style-type: none"> <li>• Open</li> <li>• NEMA 1</li> <li>• NEMA 3R</li> </ul>	MX60

# Power Quality Solution

## Automatic Transfer Switch (ATS)

Ensures continuous power delivery from either utility or emergency power source to loads



### Product Lines:

- ZT30 – Life/Public Safety, Business Critical (Selective Coordination)
- ZTE – Mission Critical
- ZTS – Spec Grade/Custom
- ZTG – General Purpose
- ZTX – Light Residential/Commercial

## Paralleling Switchgear (PSG)

Assures optimal power generation and electrical distribution system performance



### Product Lines:

- Zenith ZDEC 2020 Modular Paralleling Switchgear (PSG)
- Zenith Energy Commander™ Paralleling Switchgear (PSG)

## Surge Protection Device (SPD)

Mitigates peak voltage level of transient surge impulses that are imposed on electrical system conductors



### Product Lines:

- Din Rail Mount Series
- Wall-Mount Series





imagination at work