



Image Shown may not Reflect Actual Package

## CAT® CONTACTOR-BASED BYPASS ISOLATION AUTOMATIC TRANSFER SWITCH

Cat® transfer switches are designed for a variety of standby power applications. They provide flexibility, reliability and value in a compact package. A Bypass Isolation Automatic Transfer Switch (ATS) provides fully functioning transfer in applications where emergency power to critical loads must be maintained at all times with no interruption. This type of design allows for inspection, maintenance or replacement of the power switching mechanisms with no interruption in electrical service. Contactor -based Bypass Isolation ATS are available from 100A to 1,200A.

### FEATURES

- ATC-800 microprocessor-based controller
- True RMS voltage and frequency sensing
- Maintains fully automatic capability while in bypass mode
- Single motion rack-out with the door closed
- Multiple field programmable time delays
- Switch position indication
- Source availability indication
- Source 1 and 2 auxiliary contacts
- Programmable plant exerciser
- System test pushbutton
- Load shed from emergency
- Mimic diagram
- Ability to test power switching isolated components

## OPTIONS

- Drawout capabilities on both ATS, bypass portions and power switching devices completely interchangeable between ATS and bypass units
- Open or Closed Transition
- 2- or 4-position test switch
- Multi-meter options available
- Selectable Automatic or Non-Automatic operation
- Space heaters
- Load sequencing contacts
- Surge suppression
- Remote communications
- Seismic Zone 4 Qualified (BOCA, CBC, IBC, UBC)
- Field selectable, multi ratio, control voltage transformer 50/60 Hz

## OPTIONAL DELAYED TRANSITION INCLUDES:

- Time Delay Neutral
- Pre-Transfer Signal with 1 N.O. and 1 N.C. contacts

## RATINGS

- 100-1200A 2-, 3-, 4-pole
- 120 – 600 Vac 50/60 Hz
- Up to 56 kAIC withstand
- UL 1008 listed
- CSA C22.2 No. 178 certified
- IBC 2006 and CBC 2007

## CONTROLS AND WIRING

All control relays and industrial-grade relays are totally encapsulated to minimize exposure to dust and dirt. Lugs are 90°C rated and all control wire is #16 and #18 AWG, type XLPE with a 125°C temperature rating.

## ENCLOSURE

Durable powder-coated steel NEMA 1, 3R, or 12 enclosures with three door hinges to ensure proper support of the door and door mounted devices. The hinges have removable hinge pins to facilitate door removal for easy wall mounting or service and are supplied with pad-lockable latches.



## TESTING STANDARDS

UL 991 UL standards for safety tests for safety-related controls employing solid-state devices	IEC 1000-5 Surge withstand tests
UL 1008 Dielectric test (endurance, withstand, etc.)	NEMA® ICS 109.21 Impulse withstand test
IEEE® 472 (ANSI C37.90A) Ringing wave immunity/voltage surge test	CSA® conformance C22.2 No. 178-1978 (reaffirmed 1992)
EN55022 (CISPR11): Conducted and radiated emissions	UL 869A Reference Std for Service Equipment
EN61000-4-2 Class B Level 4 ESD immunity test	UL 50/508 Enclosures
EN61000-4-3 (ENV50140) radiated RF, electromagnetic field immunity test	NEMA ICS 1 General standards for industrial control system
EN61000-4-4 Electrical fast transient/burst immunity test	NEMA ICS 2 Standards for industrial control devices, controllers, and assemblies
EN61000-4-5 IEEE C62.41: Surge immunity test	NEMA ICS 6 Enclosures for industrial controls and systems
EN61000-4-6 (ENV50141) Conducted immunity test	NEMA ICS 10-1993 AC automatic transfer switches
EN61000-4-11 Voltage dips and interruption immunity	ANSI C33.76 Enclosures
FCC Part 15 Conducted/radiated emissions (Class A)	NEC® 517, 700, 701, and 702 National Electrical Code
CISPR 11 Conducted/radiated emissions (Class A)	NFPA® 70 National Fire Protection Agency
IEC 1000-2 Electrostatic discharge test	NFPA 99 Health care facilities
IEC 1000-3 Radiated susceptibility tests	NFPA 101 Life safety code
IEC 1000-4 Fast transient tests	NFPA 110 Emergency and standby power systems
	EGSA 100S Standard for transfer switches
	CSA C22.2 No. 178-1978 Canadian Standards Association

## BYPASS ISOLATION TRANSFER SWITCH DIMENSIONS\*

Ampere Rating	Height	Width	Depth	Weight
40 - 200	90 (2286)	46 (1016)	32 (762)	1800 (817)
300 - 400	90 (2286)	46 (1016)	32 (762)	1800 (817)
500 - 600	90 (2286)	46 (1016)	32 (762)	1800 (817)
600 - 1200	90 (2286)	46 (1016)	32 (762)	1850 (840)

Dimensions in Inches (mm) & Approximate Shipping lbs (kg)

\*Add 6" to width for seismic brackets where required

## UL 1008 WITHSTAND AND CLOSE-ON RATINGS (kA)

### Rating When Used with

UL 1008 Rating	480 V		600 V	
	Any Breaker	Specific Breaker	Any Breaker	Specific Breaker
100	50,000	65,000	50,000	65,000
200	50,000	65,000	50,000	65,000
260	50,000	65,000	50,000	65,000
320	50,000	65,000	50,000	65,000
400	50,000	65,000	50,000	65,000
600	50,000	65,000	50,000	65,000
800	50,000	65,000	50,000	65,000
1000	50,000	65,000	50,000	65,000
1200	50,000	65,000	50,000	65,000

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