Image Shown may not Reflect Actual Package

CAT® ATC 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 1200A.

FEATURES

- ATC-300+ or ATC-800 microprocessor-based controller
- True RMS voltage and frequency sensing
- Maintains fully automatic capability while in bypass mode (optional)
- 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, Delayed or Closed Transition
- 2- or 4-position test switch
- Multi-meter options available
- Selectable Automatic or Non-Automatic operation
- Space heaters (recommended for use in NEMA 3R enclosures)
- Load sequencing contacts
- Surge suppression
- Remote communications
- Seismic Qualified (BOCA, CBC, IBC, UBC)
- Field selectable, multi ratio, control voltage transformer 50/60 Hz
- Dual drawout type is field configurable for top or bottom conduit entry

OPTIONAL DELAYED TRANSITION INCLUDES:

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

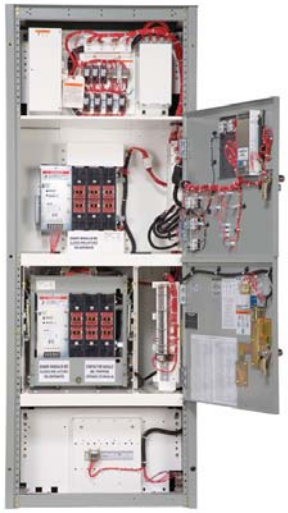
600-1200A Dual Drawout Bypass Isolation

RATINGS

- 100-1200A 2-, 3-, 4-pole
- 120 – 600 Vac 50/60 Hz
- Up to 65 kAIC withstand
- UL 1008 listed
- CSA C22.2 No. 178 certified
- IBC 2006, CBC 2007 and OSHPD

CONTROLS AND WIRING

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



100-400A Fixed Bypass Isolation
Shown with top and bottom panels removed

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

UL 1008 WITHSTAND AND CLOSE-ON RATINGS (kA)

	480 V		600 V	
UL 1008 Rating	Any Breaker	Specific Breaker	Any Breaker	Specific Breaker
100	30,000	50,000	22,000	35,000
150	30,000	50,000	22,000	35,000
200	30,000	30,000	22,000	35,000
225	30,000	50,000	42,000	65,000
260	30,000	50,000	42,000	65,000
320	30,000	50,000	42,000	65,000
400	30,000	50,000	42,000	65,000
600	50,000	65,000	42,000	65,000
800	50,000	65,000	42,000	65,000
1000	50,000	65,000	42,000	65,000
1200	50,000	65,000	42,000	65,000

FIXED & DRAWOUT BYPASS ISOLATION CONTACTOR BASED TRANSFER SWITCHES 100-400A*

Ampere Rating	Number of Poles	Conduit Entry	Height	Width	Depth	Shipping Weight Lbs. (kg)
NEMA 1 Drawout Bypass[1]						
100-400A 120-480V	2	Either	78 (1981)	30 (762)	29 (737)	600 (273)
&	3	Either	78 (1981)	30 (762)	29 (737)	625 (284)
100-200A @ 600V	4	Either	78 (1981)	30 (762)	29 (737)	650 (295)
NEMA 3R Drawout Bypass[1]						
100-400A 120-480V	2	Either	78 (1981)	30 (762)	48 (1219)	625 (284)
&	3	Either	78 (1981)	30 (762)	48 (1219)	650 (295)
100-200A @ 600V	4	Either	78 (1981)	30 (762)	48 (1219)	675 (307)
NEMA 1 Fixed Bypass[2]						
100-400A 120-480V	2	Either	78 (1981)	30 (762)	29 (737)	600 (273)
&	3	Either	78 (1981)	30 (762)	29 (737)	625 (284)
100-200A @ 600V	4	Either	78 (1981)	30 (762)	29 (737)	650 (295)
NEMA 3R Fixed Bypass[2]						
100-400A 120-480V	2	Either	78 (1981)	30 (762)	48 (1219)	625 (284)
&	3	Either	78 (1981)	30 (762)	48 (1219)	650 (295)
100-200A @ 600V	4	Either	78 (1981)	30 (762)	48 (1219)	675 (307)

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

* Add 6" to width for seismic brackets where required

[1] Dual drawout type is field configurable for top or bottom entry

[2] Fixed type conduit entry (top or bottom) must be specified at type of order

All dimensions and weights are approximate and subject to change without notice and are not for construction use.

AUTOMATIC TRANSFER SWITCH

FIXED& DRAWOUT BYPASS ISOLATION CONTACTOR BASED TRANSFER SWITCHES 100A-1200A*

Ampere Rating	Number of Poles	Conduit Entry	Height	Width	Depth	Shipping Weight Lbs. (kg)
NEMA 1 Drawout Bypass [1]						
600-1200A 120-600V	2	Either	90 (2286)	40 (1016)	29 (737)	1800 (816)
	3	Either	90 (2286)	40 (1016)	29 (737)	1850 (839)
	4	Either	90 (2286)	40 (1016)	29 (737)	1900 (862)
NEMA 3R Drawout Bypass [1]						
600-1200A 120-600V	2	Either	91 (2311)	41 (1041)	48 (1219)	1850 (839)
	3	Either	91 (2311)	41 (1041)	48 (1219)	1900 (862)
	4	Either	91 (2311)	41 (1041)	48 (1219)	1950 (885)
NEMA 1 Fixed Bypass [2]						
600A 120-600V	2	Either	90 (2286)	40 (1016)	29 (737)	1500 (680)
	3	Either	90 (2286)	40 (1016)	29 (737)	1550 (703)
	4	Either	90 (2286)	40 (1016)	29 (737)	1600 (726)
800-1200A 120-600V	2	Either	90 (2286)	40 (1016)	29 (737)	1700 (771)
	3	Either	90 (2286)	40 (1016)	29 (737)	1750 (794)
	4	Either	90 (2286)	40 (1016)	29 (737)	1800 (816)
NEMA 3R Fixed Bypass [2]						
600A 120-600V	2	Either	91 (2311)	41 (1041)	48 (1219)	1550 (703)
	3	Either	91 (2311)	41 (1041)	48 (1219)	1600 (726)
	4	Either	91 (2311)	41 (1041)	48 (1219)	1650 (748)
800-1200A 120-600V	2	Either	91 (2311)	41 (1041)	48 (1219)	1750 (794)
	3	Either	91 (2311)	41 (1041)	48 (1219)	1800 (816)
	4	Either	91 (2311)	41 (1041)	48 (1219)	1850 (839)

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

* Add 6" to width for seismic brackets where required

[1] Dual drawout type is field configurable for top or bottom entry

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