

ELECTRIFICATION SERVICE

TruCONTROL retrofit kit for legacy Zenith™ ATS controllers

Modernize critical power equipment





Extend the life of your equipment

Keep your legacy Zenith™ ATS up and running by replacing aged components with the latest in ATS control technology.



Minimize downtime

The TruCONTROL retrofit kit is fast and easy to install, helping keep downtime to a minimum. The simple setup process for the ABB TruCONTROL unit will get your electrical system up and running fast.



Modernize your automatic transfer switch

Enable cloud-based connectivity with the ABB Ability™ electrical distribution control system to provide system data in real-time — enhancing decision-making and improving productivity.

TruCONTROL retrofit kit for legacy Zenith™ ATS controllers

Upgrade MX150 and MX250 controllers installed in legacy Zenith automatic transfer switches with the ABB TruCONTROL retrofit kit.



The ABB TruCONTROL retrofit kit provides legacy automatic transfer switching equipment to the latest in ATS power switching control technology. The TruCONTROL retrofit kit allows you to easily incorporate and coordinate your legacy Zenith ATS with other ABB devices using connectivity with ABB Ability™ electrical distribution control system (EDCS) software.

The ABB TruCONTROL retrofit kit for legacy Zenith ATS controllers contains everything you need to upgrade existing MX150 and MX250 ATS controllers, including the controller and HMI itself, an adapter harness to mate with the existing mechanism and all necessary hardware and mounting components to help ensure a quick and easy installation that keeps downtime to a minimum.

The TruCONTROL retrofit kit is designed for maximum compatibility with legacy Zenith automatic transfer switches, including both standard and bypass ATS. The included Ekip modules allow for backward-compatibility with all legacy Zenith option packages.

Basic specifications:

Compatible product families	Legacy Zenith ZTG, ZTS; ZBTS (bypass)
Legacy controller	MX150, MX250
Amperage	40–4000 A
Voltage	200–480 V
Transition type	Open (standard), delayed, closed
Pole configurations	2-pole, 3-pole and 4-pole units
Enclosure ratings	NEMA 1 (standard) NEMA 3R (with optional window kit)

Please note that a legacy Zenith automatic transfer switch retrofitted using this kit is only UL-certified if the installation is verified by a UL engineer.

For detailed specifications for the TruCONTROL ATS controller, refer to document **1SCC303042M0201**

TruCONTROL HMI

The TruCONTROL retrofit kit has four options for selecting the HMI to correspond to the controller type on the existing ATS. Refer to the figures below to determine which HMI to select based on the legacy ATS controller and transition type.



ZTG, Open transition
2-position, LCD screen HMI
(option 2PL3)



ZTG, Delayed transition
3-position, LCD screen HMI
(option 3PL3)



ZTS, Open transition
ZBTS, Open transition
2-position, touchscreen HMI
(option 2PL4)



ZTS, Delayed transition
ZTS, Closed transition
ZBTS, Delayed transition
ZBTS, Closed transition
3-position, touchscreen HMI
(option 3PL4)

Ordering information

Product coding

Prefix		Harness		HMI	Signaling options	
TruCONTROL retrofit kit	TCRF	F17 - 40–260 A	F17X	2-position level 3	2PL3 Legacy MSTD, MEXE package	B
		F14 - 40–600 A (DT/OT)	F14X	3-position Level 3	3PL3 Legacy MCONS, MSENS, MPSE, MPSGS Package	C
		F14 - 40–600 A (CT)	F14C	2-position Level 4	2PL4	
		63L - 600–1200 A	63LX	3-position Level 4	3PL4	
		65L - 1600–3000 A	65LX			
		65L - 4000 A	65LH			
		R5 - 1600–3000 A	R5XX			
		100–400 A (bypass)	66BX			
		600–1200 A (bypass)	64BX			
		1600–3000 A (bypass)	65BX			
		4000 A (bypass)	65BH			

Note: This retrofit kit is not compatible with legacy-Zenith ATS units that were manufactured with an RTS box, which were used prior to 2006. If in doubt, contact ABB to confirm compatibility.

Refer to the below table to determine the proper harness selection based on the product family, amperage and transition type of the existing ATS.

Product family	Amps	Transition	Harness
ZTG	40–260 A	OT	F17X
		DT	F14X
	400–600 A	OT/DT	F14X
	800–1200 A	OT/DT	63LX
	1600–3200 A	OT/DT	65LX or R5XX*
ZTS	40–150 A	OT	F17X
		DT	F14X
		CT	F14C
	225–400 A	OT/DT	F14X
		CT	F14C
	600–1200 A	OT/DT/CT	63LX
	1600–3200 A	OT/DT/CT	65LX or R5XX*
4000 A	OT/DT/CT	65LH	
ZBTS	100–400 A	CT	64BX
		OT/DT	66BX
	600–1200 A	OT/DT/CT	64BX
	1600–3200 A	OT/DT/CT	65BX
	4000 A	OT/DT/CT	65BH

* R5 frames with MX controls were offered on 1600–3000 A units between 2022 and 2023. If in doubt, contact ABB to determine which harness to select.

Signaling options

The TruCONTROL retrofit kit is provided with either two or three Ekip I/O modules. Select the appropriate option based on the option package on the legacy ATS or signaling I/O needs for the existing ATS.

MSTD, MEXE: Option B (2 Ekip I/O modules)

MCONS, MSENS, MPSE, MPSGS: Option C (3 Ekip I/O modules)



Accessories

NEMA 3R window kit — OXEC21

Refer to ABB publication **1SCC303042M0201** for a complete list of electronic accessories compatible with the TruCONTROL controller.





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