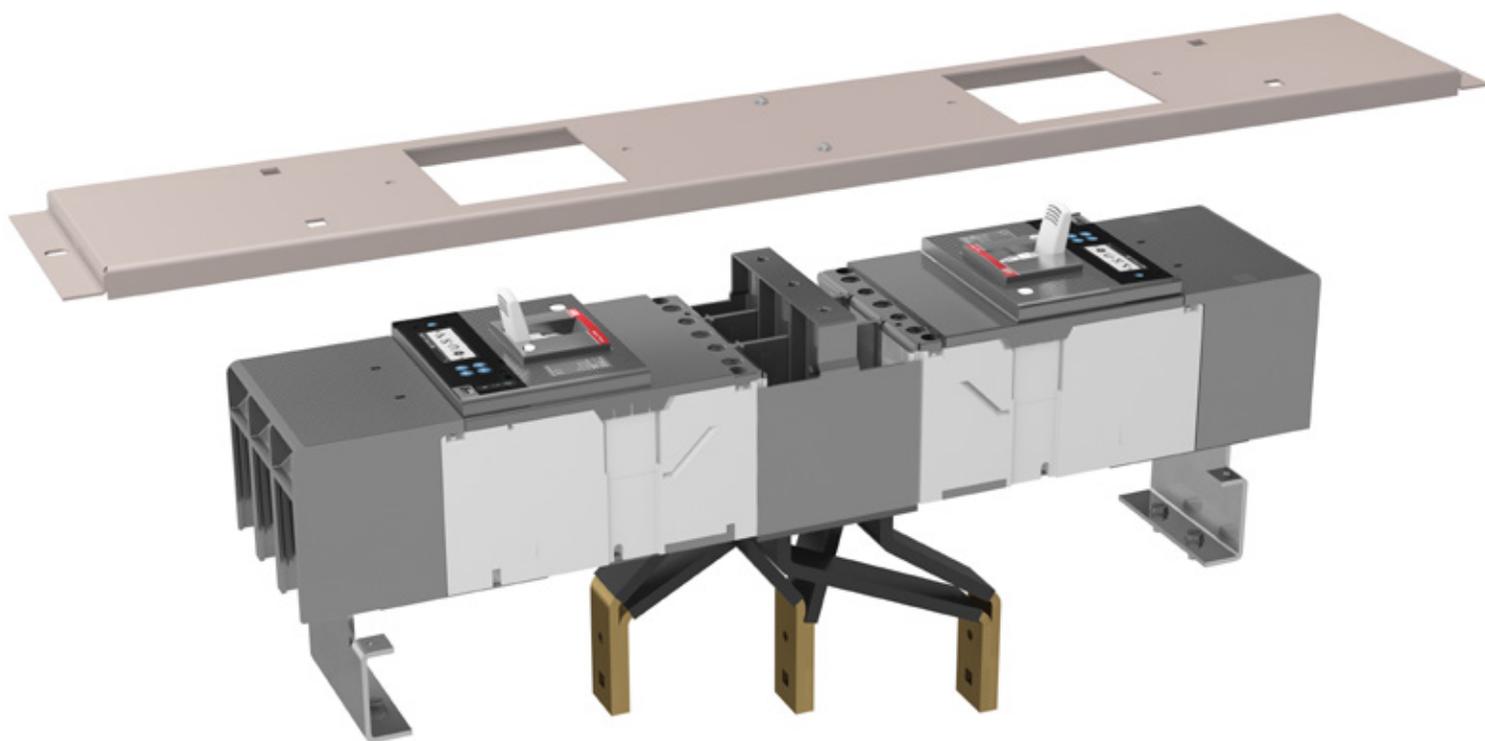POWER PANELBOARDS AND SWITCHBOARDS

Tmax® XT retrofit kits for Spectra™ panelboards
Extending the life of your installation

Your trusted partner

KEEP RUNNING
Your operation is critical. Your goal is to extend the life of your installation. These Tmax® XT Retrofit Kits keep your Spectra™ Panelboards operational and help to minimize costs due to down time.

UPDATE YOUR INSTALLATION
Update your Spectra™ Panelboards and Switchboards with the latest in circuit breaker technology. These retrofit kits enable the installation of the Tmax® XT family of molded circuit breakers. You benefit by gaining the latest capability in circuit protection, communications, and predictive maintenance technologies.

GET WHAT YOU NEED WHEN YOU NEED IT
You run lean. You need replacement parts today. Our wide network of distributors give you access to the products you need, when you need them.
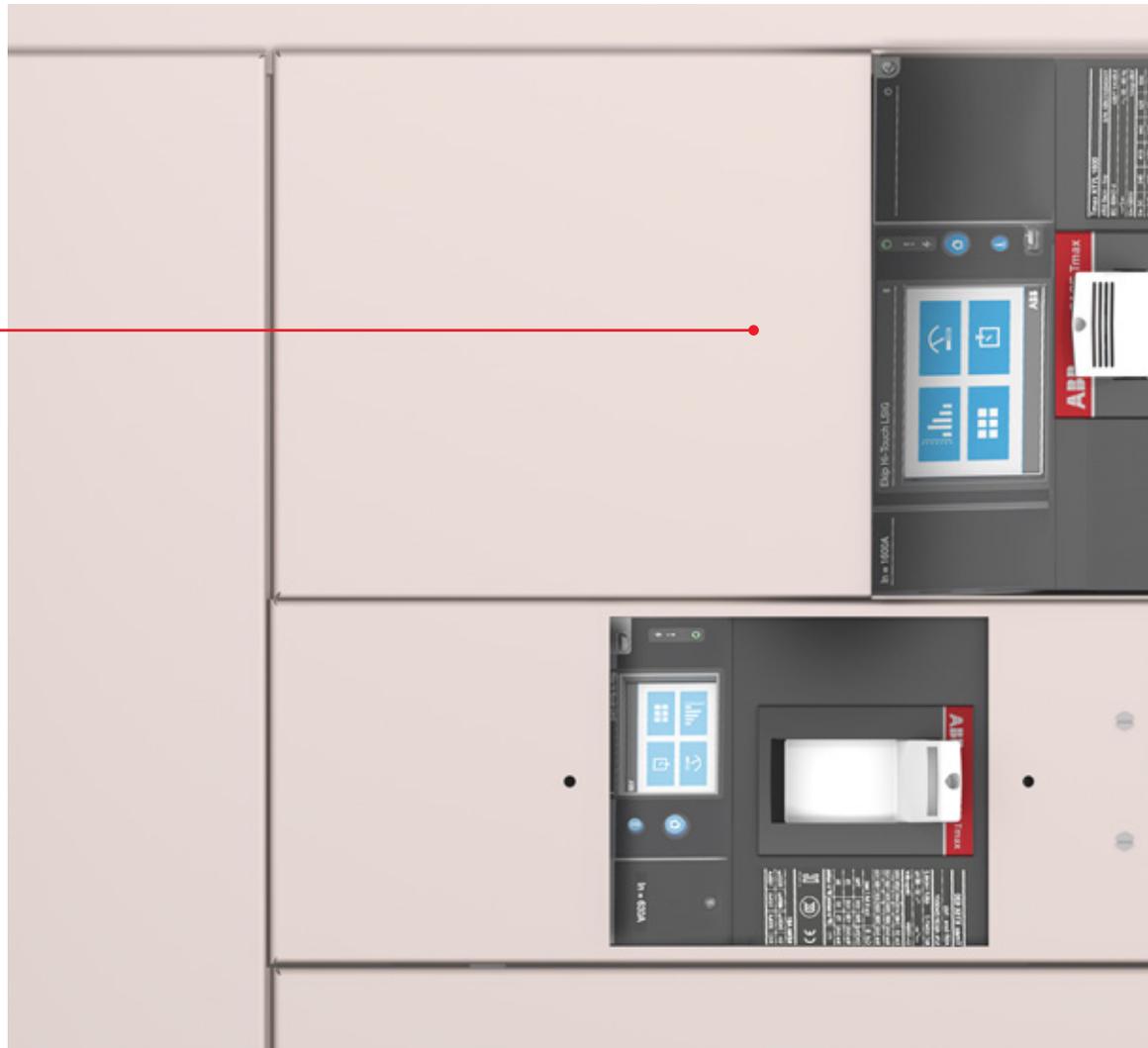
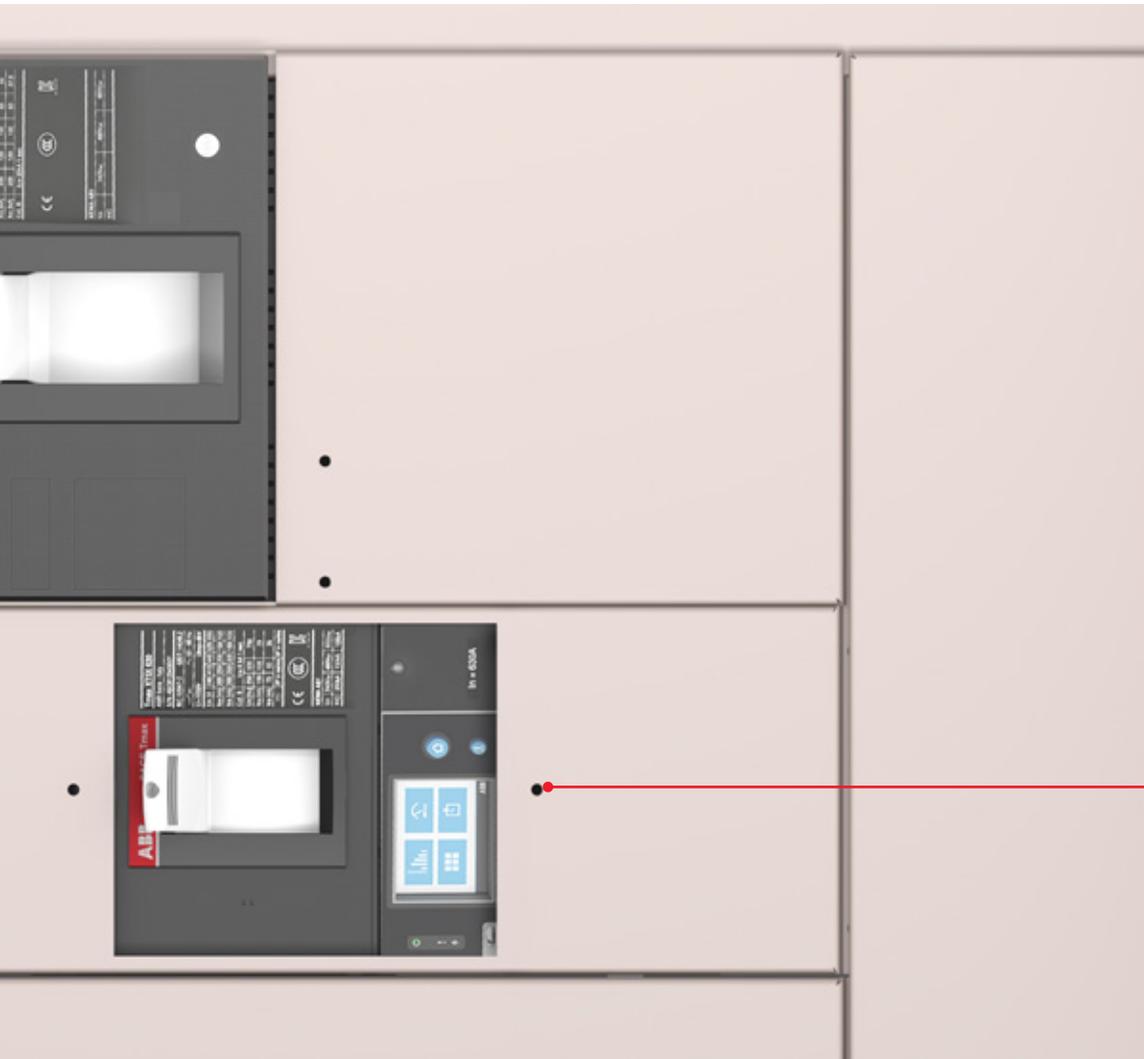# Table of contents

Tmax® XT retrofit kits for Spectra™ panelboards and switchboards
The right choice for your application

Single mount kits[01] available for 250 A, 600 A, 1200 A frames

—
01 Maximum of two Tmax®
XT4, XT5 or XT7 retrofit kits
can be installed, side by
side, in an existing Spectra™
panelboard installation

**Dual mount kits[01] available
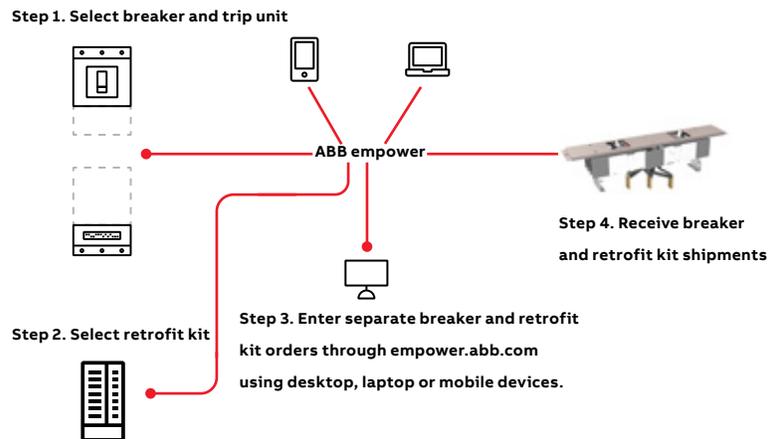for 150 A, 250 A, 400 A frames**

Choosing the right retrofit has never been so easy

You consider what you need.
We will show you what's possible

The world of electrical distribution is a complex one, yet choosing the right device for your individual needs has never been simpler thanks to this Tmax® XT retrofit[01] offering for Spectra™ Panelboards and Switchboards. Maybe you are looking for a basic protection device for a standard distribution system.

Or perhaps you need something more complex, such as a locking mechanisms or devices that integrate protection, automation, measuring and communication into a cloud-based supervision system. Follow the flowchart when placing an order. All mounting kits, filler plates and hardware required are included under a single part number. Circuit breakers are ordered separately.[02]

Note: All installed retrofit kits must be documented and reviewed by local inspector for code compliance. Using Tmax XT circuit breakers with retrofit kits maintains UL 67 listing of the panelboard (UL file number E2366).

Step 1. Select breaker and trip unit

ABB empower

Step 4. Receive breaker and retrofit kit shipments

Step 2. Select retrofit kit

Step 3. Enter separate breaker and retrofit kit orders through empower.abb.com using desktop, laptop or mobile devices.

Bolt-on Strap Kits - Type SRFB

Example:	**SRFB**	**6** Poles	**XT1** C/B Frame	**B** Mounting	**FPX** Accessory Code
		3 6	XT1 = Tmax® XT XT1 XT4 = Tmax® XT XT4 XT5 = Tmax® XT XT5 XT7 = Tmax® XT XT7	Blank = Main or Branch B = Branch Only M = Main Only	FPX = With Filler Plate Kit (full width plates with cutouts for handles, etc.) FPK = With Filler Plate Kit and Kirk Lock Provision

Neutral CT Kits - Type SRFN

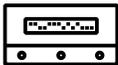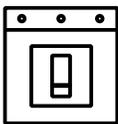| Example:	**SRFN**	**400** Ampere Rating	**GF** Modification Code
		400 = 400A Tmax® XT XT5 [03] 600 = 600A Tmax® XT XT5 [03] 800 = 800A Tmax® XT XT7 100 = 1000A Tmax® XT XT7 120 = 1200A Tmax® XT XT7	GF = Tmax® XT Spectra™ Panel Neutral CT kit

—
01 Maximum of two Tmax® XT4, XT5 or XT7 retrofit kits can be installed, side by side, in an existing Spectra™ panelboard installation
—
02 For instantaneous selectivity, see DET-760. For series ratings, see DET-008.

03 XT5 Neutral current transformer kit is suitable for use with Ekip DIP trip units only.

Possible combinations within the range

	Spectra™ E Frame	Spectra™ F Frame	Spectra™ G Frame	Spectra™ K Frame
Legacy Spectra™ breaker				
Tmax® XT Breaker	Tmax® XT1	Tmax® XT4	Tmax® XT5	Tmax® XT7
Industrial applications		•	•	•
Commercial and industrial applications	•	•	•	•
Thermal-magnetic trip units	•	•	•	
Electronic trip units		•	•	•

	125 A dual mounted		250 A dual mounted		250 A single mounted	
		Box width range / X height		Box width range / X height		Box width range / X height
Legacy Spectra™ based Kit	AMCB6EBFP	–	AMCB6FJFP	–	AMCB3FJFP	–
Tmax® XT Kit[01, 03]	SRFB6XT1FPX	27"-44" / 3X	SRFB6XT4FPX	31"-44" / 3X	SRFB3XT4FPX	27"-44" / 3X
Tmax® XT Kit with Kirk lock provisions[01, 03]	SRFB6XT1FPK	27"-44" / 3X	SRFB6XT4FPK	31"-44" / 3X	SRFB3XT4FPK	27"-44" / 3X

	400 A dual mounted		600 A single mounted		1200 A single mounted	
		Box width range / X height		Box width range / X height		Box width range / X height
Legacy Spectra™ based Kit	AMCB6GBFP	–	AMCB3GMFP	–	AMCB3KMFP	–
Tmax® XT Kit[01, 03]	SRFB6XT5BFPX	40"-44" / 4X	SRFB3XT5MFPX	27"-44" / 4X	SRFB3XT7MFPX[02, 04]	40"-44" / 6X
Tmax® XT Kit with Kirk lock provisions[01, 03]	SRFB6XT5BFPK	40"-44" / 4X	SRFB3XT5MFPK	27"-44" / 4X	SRFB3XT7MFPK[02, 04]	40"-44" / 6X

SRFN400GF [05]	XT5 UL 400 A Neutral current transformer kit
SRFN600GF [05]	XT5 UL 600 A Neutral current transformer kit
SRFN800GF	XT7 UL 800 A Neutral current transformer kit
SRFN100GF	XT7 UL 1000 A Neutral current transformer kit
SRFN120GF	XT7 UL 1200 A Neutral current transformer kit

				Frame
XT Breakers with retrofit kit	XT1	XT4	XT5	XT7
Rated current (A)	125	250	400/600	1200
SCCR 240 V (kA)	100	200	200	200
SCCR 480 V (kA)	65	100	100	100
SCCR 600 V (kA)	25	25	65	65

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01 Maximum of two Tmax® XT4, XT5 or XT7 retrofit kits can be installed, side by side, in an existing Spectra™ panelboard installation

—
02 XT7 breaker handle extension included in this kit

—
03 Kits are only for use with 80% rated breakers

—
04 XT7 retrofit kit can be used for a main or feeder

—
05 XT5 Neutral current transformer kit is suitable for use with Ekip DIP trip units only.

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The Tmax® XT range at a glance
The world of breaking capability in your hands. According to UL 489 and CSA C22.2 standards.

The SACE Tmax® XT molded case circuit breaker (MCCB) range ensures extreme performance and protection features. Tmax XT MCCBs are designed to maximize ease of use, integration and connectivity, and built to deliver safety, reliability and quality.

Electronic trip units Ekip DIP and Ekip Touch
The network under control

When it comes to accurate protection of the network, you cannot go wrong with Ekip DIP and Touch technology.

Trip unit range

The protection units available for the SACE Tmax® XT range is organized in three layers, characterized by increasing performance, interfaces, information sets and integration functions.

Each layer includes several trip unit versions, designed to match specific application needs such as distribution, generator protection.

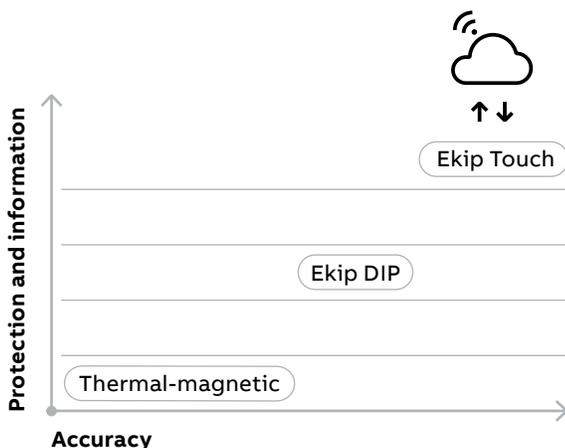|		Applications			Advanced functionalities			
	Distribution		Generator	Selectivity	Metering	Communication	ABB Ability Marketplace™
	DC	AC						
Touch		●	●	●	●	●		●
DIP		●	●	●				
TM	●	●	●					

Thermal-magnetic trip units

Thermal-magnetic trip units are intended for the protection of AC and DC networks. They are a solution for basic protection such as overloads and short-circuits.

Ekip DIP trip units

Ekip DIP trip units represent the first level of electronic trip unit and are used to protect AC networks. Compared to thermal-magnetic trip units, they can provide increased accuracy, a wider regulation range, delayed short circuit protection, individual trip information and test capability.
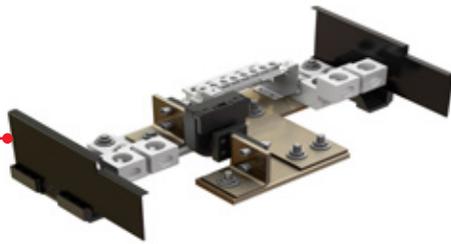
Ekip Touch trip units

Ekip Touch trip units offer state-of-the-art technology for AC-network protection. These trip units integrate a great number of protection and automation functionalities, performed with best-in-class accuracy. Measurement and supervision data can be transmitted both on the local communication network (the most popular communication protocols are available) or directly over the Internet. Configuration of the trip unit is extremely user-friendly, mainly on the sizes where a color touchscreen display is available. Furthermore, as operational requirements evolve, for the first time ever customers can download new functions from the ABB Marketplace, choosing among more than fifty different protection, metering and automation functionalities.
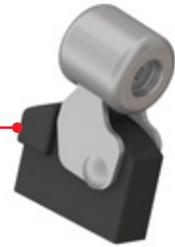
Ekip Touch

Ekip DIP

Thermal-magnetic

Protection and information

Accuracy

Accessories for retrofit kits
The parts you might need for your installation
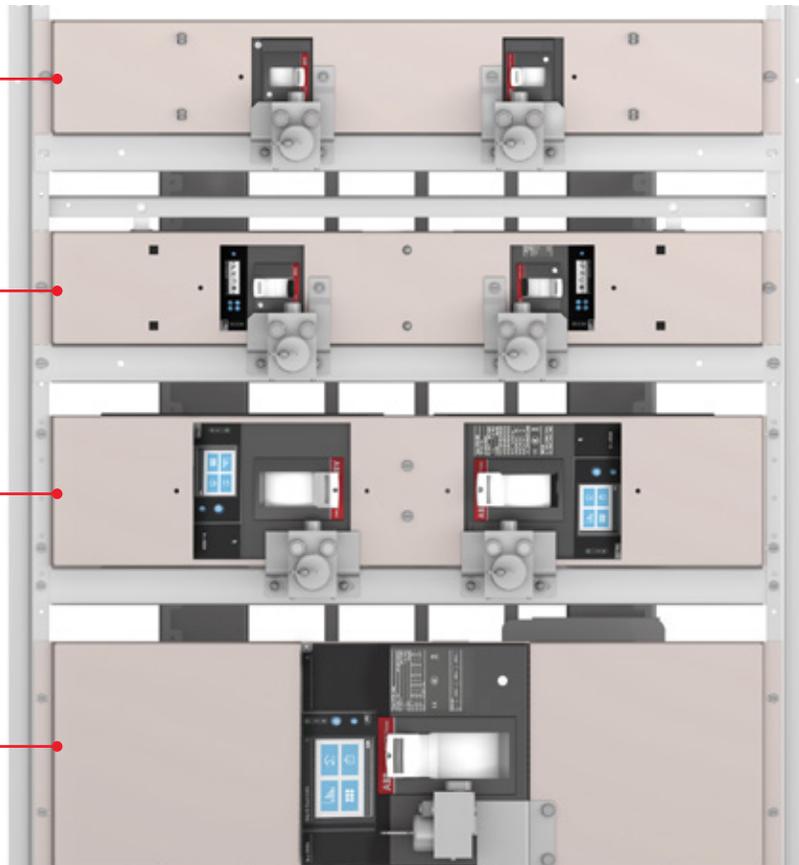

Neutral Current Transformers for XT5 and XT7

XT7 folding handle reduces handle operation effort and are included in XT7 retrofit kits

XT1 Kirk Lock

XT4 Kirk Lock

XT5 Kirk Lock

XT7 Kirk Lock

Installation instruction sheets

- Retrofit of Spectra E-frame (125 amp max) breaker with ABB Tmax XT1 breaker dual mount (bolt-on kits)
- Retrofit of Spectra E-frame and F-frame with ABB Tmax XT4 breaker single mount (bolt-on kits)
- Retrofit of Spectra E-frame and F-frame with ABB Tmax XT4 breaker dual mount (bolt-on kits)
- Retrofit of Spectra G-frame with ABB Tmax XT5 breaker single mount (bolt-on kits)
- Retrofit of Spectra G-frame with ABB Tmax XT5 breaker dual mount (bolt-on kits)
- Retrofit of Spectra K-frame with ABB Tmax XT7 breaker single mount (bolt-on kits)

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