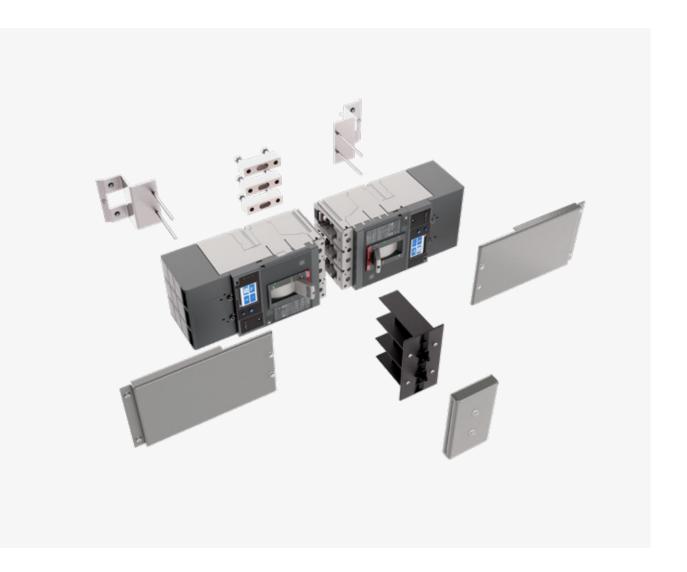


POWER PANELBOARDS AND SWITCHBOARDS

Tmax[®] XT retrofit kits for Spectra[™] plug-in panelboards and switchboards

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 and switchboards 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 case 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 gives you access to the products you need, when you need them.



SUSTAINABILITY

Extend the lifespan of your electrical system, keeping it live and efficient for as long as possible. Minimize CO₂ emissions and natural resource usage.



REDUCED PROJECT AND LABOR COSTS

Retains existing switchboard or panelboard structure, conduits, cabling and footprint.
Maintains UL listings without additional charges.

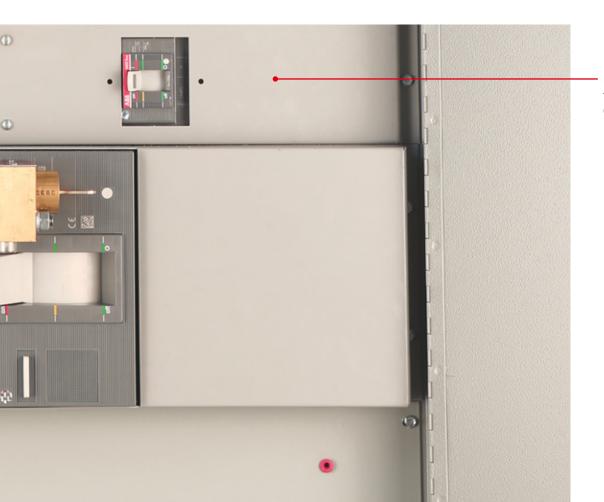
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Tmax® XT retrofit kits for Spectra™ plug-in panelboards and switchboards



Single-mount kits available for 250 A, 600 A and 1200 A frames



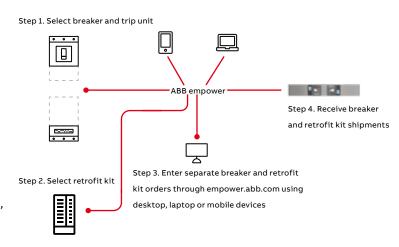
Dual-mount kits available for 125 A, 150 A, 250 A and 600 A frames

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 retrofit⁰¹ 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 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. Spectra plug-in modules, if required, and Tmax® XT circuit breakers are ordered separately.



Possible combinations within the range

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





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

Tmax® XT ordering requirements

Instructions for ensuring compatibility with your retrofit kit.

Tmax° XT example catalog code: XT5SU325APFN000XXX

Example:	XT5S	U UL rating	3 Poles	25AP Ratings	F Terminals	N Load-side terminals	000XXX
		UL 80% rating required (coded "U"). Consult with ABB if replacing UL 100% rated legacy breaker	3-pole breaker required	These options must match legacy breaker ratings	Must select front terminals, no lugs (coded "F")	D = (XT1) FC CuAl 1x10-2/0 AWG G = (XT4 with SE legacy breaker) FC CuAl 1x14- 1/0 AWG 8 = (XT4 with SF legacy breaker)	
						FC CuAl 1x350	
Additional						kcmil internal	
	•	llock devices can be	selected. Remov	able padlock		N = (XT5) FC CuAl	
	annot be s					2x2/0 AWG-	
		ock options on breal	•	ovisions		500 kcmil	
should be	e selected	with the retrofit kit.				W = (XT7) FC CuAl	
 Signaling 	and comn	nunication options				4x4/0 AWG-	
- XT1: No	t available					500 kcmil	
- XT4 and	d XT5: Requ	uire a 1X minimum s	pace on the right	side of the			
breaker	to allow c	learance for signalir	ng and communic	cation wire			
routing	. For 6p ins	stallations this mea	ns a 1X space on	both sides of			
the bre	akers is red	quired. For basic ele	ctrical functions	(i.e., shunt trip,			
underv	oltage, aux	contacts), no panel	blank is necessa	ıry.			

Neutral CT kits — type SRFN

on 3-phase 3-wire only).

the need for panel blanks.

- XT7: All signaling and communication options are available without

• 3-phase 4-wire external ground fault not available on XT5 (available

Example:	SRFN	400	GF
		Ampere rating	Modification code
		400 = 400A Tmax° XT XT5	GF = Tmax° XT Spectra™ panel neutral CT kit
		600 = 600A Tmax [®] XT XT5	
		800 = 800A Tmax [®] XT XT7	
		100 = 1000A Tmax [®] XT XT7	
		120 = 1200A Tmax [®] XT XT7	

Retrofit kit ordering requirements

Plug-in retrofit kits — type SRFP

Example:	SRFP	6 Poles	XT4 Tmax XT frame	FPX Accessory code	2 Panel width	E Other
		3 6	XT1 = Tmax° XT XT1 XT4 = Tmax° XT XT4 XT5 = Tmax° XT XT5 XT7 = Tmax° XT XT7	FPX = With filler plate kit (full width plates with cutouts for handles, etc.) FPK = With filler plate kit and Kirk lock provision	2 = 27/31" Spectra™ panel 3 = 36/40" Spectra™ panel 4 = 44" Spectra™ panel	E = Include only on Spectra E to XT4 kits [blank] = all other kits

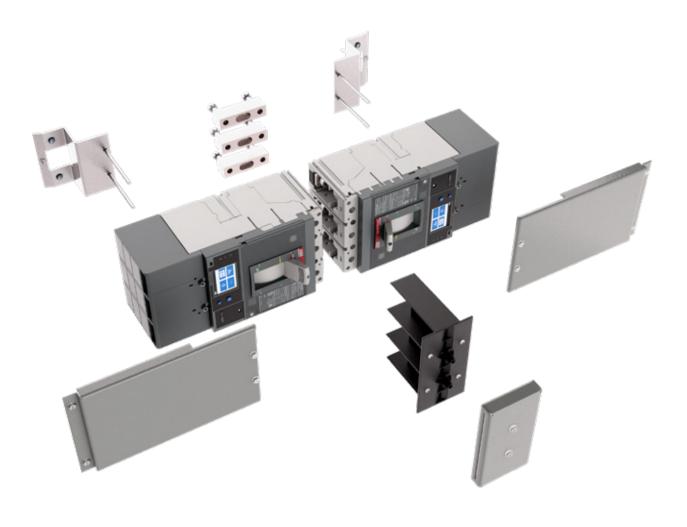
	125	125 A dual mounted			150 A dual mounted		250 A dual mounted		
	Catalog number	Box width (in)	X Height	Catalog number	Box width (in)	X Height	Catalog number	Box width (in)	X Height
Legacy Spectra [™] plug-in module ⁰¹	AMC6EB			AMC6EB			AMC6FJ		
Tmax [®] XT kit	SRFP6XT1FPX2	27/31		SRFP6XT4FPX2E	27/31		SRFP6XT4FPX2	27/31	
	SRFP6XT1FPX3	36/40	3X	SRFP6XT4FPX3E	36/40	3X	SRFP6XT4FPX3	36/40	3X
	SRFP6XT1FPX4	44	44	SRFP6XT4FPX4E	44		SRFP6XT4FPX4	44	
Tmax® XT kit with	SRFP6XT1FPK2	27/31		SRFP6XT4FPK2E	27/31		SRFP6XT4FPK2	27/31	
Kirk lock provisions	SRFP6XT1FPK3	36/40	4X	SRFP6XT4FPK3E	36/40	4X	SRFP6XT4FPK3	36/40	4X
	SRFP6XT1FPK4	44		SRFP6XT4FPK4E	44		SRFP6XT4FPK4	44	

	250 A	250 A single mounted		600	600 A dual mounted			600 A single mounted		
	Catalog number	Box width (in)	X Height	Catalog number	Box width (in)	X Height	Catalog number	Box width (in)	X Height	
Legacy Spectra [™] plug-in module ⁰¹	AMC3FJ			AMC6GB			AMC3GM			
Tmax* XT kit	SRFP3XT4FPX2	27/31		SRFP6XT5FPX3	40		SRFP3XT5FPX2	27/31		
	SRFP3XT4FPX3	36/40	6/40 3X	SRFP6XT5FPX4	44	4X	SRFP3XT5FPX3	36/40	4X	
	SRFP3XT4FPX4	44					SRFP3XT5FPX4	44		
Tmax® XT kit with	SRFP3XT4FPK2	27/31		SRFP6XT5FPK3	40		SRFP3XT5FPK2	27/31		
Kirk lock provisions	SRFP3XT4FPK3	36/40	4X	SRFP6XT5FPK4	44	5X	SRFP3XT5FPK3	36/40	5X	
	SRFP3XT4FPK4	44					SRFP3XT5FPK4	44		

	1200 A single mounte					
	Catalog number	Box width (in)	X Height			
Legacy Spectra [™] plug-in module ⁰¹	АМС3КМ					
Tmax [®] XT kit	SRFP3XT7FPX3	40	- 6X			
	SRFP3XT7FPX4	44	6.7			
Tmax* XT kit with	SRFP3XT7FPK3	40	- 6X			
Kirk lock provisions	SRFP3XT7FPK4	44	OX			

 $^{\,}$ 01 Not included in retrofit kit. Order separately only if being added to an existing application.





The Tmax® XT range at a glance

The world of breaking capability in your hands. According to UL 489 and CSA C22.2 standards.

SACE° Tmax° XT takes circuit breaking to the next level. Designed to perform at extremely high levels, simple to install and able to provide a higher level of safety, there's a frame to meet each of your requirements. From a basic solution for commercial and light industrial applications to advanced, heavy-duty applications with cloud connectivity, SACE Tmax XT has you covered — securely, professionally and reliably.



SACE° Tmax° XT1
"The Founder"

Small, reliable, versatile. Your dependable partner for all standard applications.

At a glance:

- 125 A frame available up to 480 V Delta UL
- Thermal-magnetic, MCS and MCP trip units
- Max. interrupt rating of 65 kA at 480 V
- Offers savings versus 600 V-rated systems in most distribution applications



SACE® Tmax® XT4

"The Entrepreneur"

Capable of supporting both simple and extremely complex operations.

At a glance:

- 250 A frame available up to 600 V UL
- Thermal-magnetic, MCS, MCP, basic and advanced electronic trip units
- Max. interrupt rating of 200 kA at 480 V, 100 kA at 600 V
- Advanced electronic trip units offer embedded Bluetooth® communication for interaction without direct contact



SACE® Tmax® XT5

"The Gamechanger"

Compact, powerful and flexible. Shows the world what a circuit breaker of the future can do.

At a glance:

- 600 A frame available up to 600 V UL
- Thermal-magnetic, MCS, MCP, basic and advanced electronic trip units
- Max. interrupt rating of 200 kA at 480 V, 100 kA at 600 V
- Advanced electronic trip units are future-ready with the ability to download additional measurements and logic in the field from the ABB Marketplace™



SACE® Tmax® XT7

"The Superhero"

The ultimate choice. Deals with heavy-duty demands effortlessly.

At a glance:

- 1200 A frame available up to 600 V UL
- MCS, MCP, basic and advanced electronic trip units
- Max. interrupt rating of 100 kA at 480 V, $\,$ 65 kA at 600 V $\,$
- A powerful package capable of monitoring and controlling distribution

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 or generator protection.

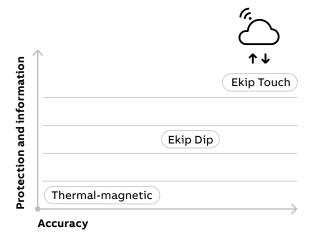
	Applications						Advanced functionalities
	Distribution		Generator	Selectivity	Metering	Communication	ABB Ability Marketplace™
	DC	AC					
Touch		•	•	•	•	•	•
Dip		•	•	•			
TM	•	•					

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.

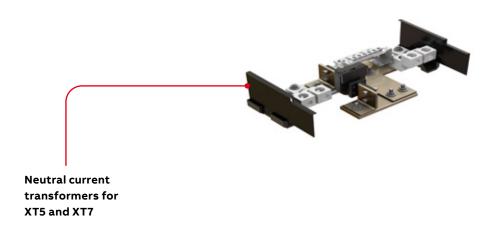


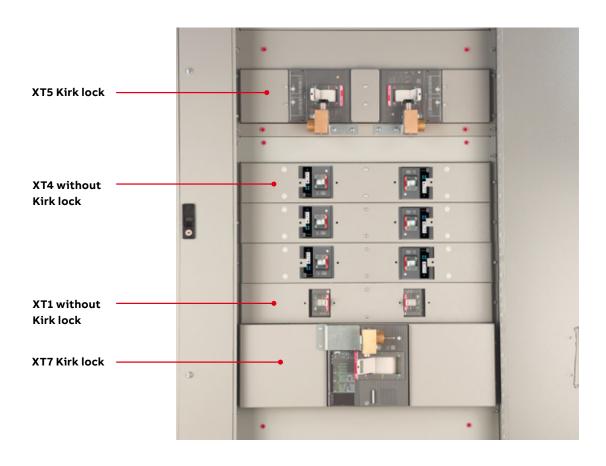
Ekip Touch trip units

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 50 different protection, metering and automation functionalities.

Accessories for retrofit kits

The items you might need for your installation





Notes





ABB Inc.

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