
SACE Tmax XT4

Low voltage molded case circuit-breakers



Break new ground

- Data and connectivity
- Ease of use and installation
- Performance and protection
- Safety and reliability

The SACE Tmax XT4

The world of circuit breaking and circuit protection in your hands

The SACE Tmax XT range takes circuit protection to the next level. Designed to perform at extremely high levels, simple to install and able to provide increasingly better safety, there is a frame to meet each and every one of your requirements. From a basic solution for standard applications - such as hotels - through to advanced, heavy-duty applications with cloud connectivity for ships, chemical parks or airports, the new range has got it covered: securely, professionally, reliably.



SACE Tmax XT4

The entrepreneur

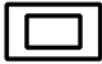
A forward-thinking, multitasker. It finds solutions for all levels of complexity.

At a glance:

- Up to 250A
- For heavy duty
- Dimensions 105x82.5x160 (WxDxH mm)
- Thermal-magnetic, Ekip Dip, Ekip Touch/Hi-Touch

Construction characteristics

All the SACE Tmax XT molded case circuit-breakers are built in accordance with the following constructional characteristics.



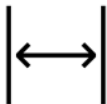
Double insulation

The Tmax XT circuit-breaker has double insulation between the live power parts (excluding the terminals) and the front parts of the apparatus where the operator works during normal operation. The seat of each electrical accessory is completely segregated from the power circuit, preventing any risk of contact with live parts. The operating mechanism especially is completely insulated from the powered circuits. Furthermore, the circuit-breaker has oversized insulation, both between the live internal parts and near the connection terminals. Furthermore, the distances exceed those required by the IEC Standards and fully comply with the prescriptions of the UL 489 Standard.



Positive operation

The operating lever always indicates the precise position of the moving contacts of the circuit-breaker, thereby guaranteeing safe and reliable signals, in compliance with IEC 60073 and IEC 60417-2 Standards (I = Closed; O = Open; yellow-green line = open due to protection trip). The circuit-breaker operating mechanism has a free release regardless of the pressure on the lever and the speed of operation. Protection tripping automatically opens the moving contacts: to close them again, the operating mechanism must first be reset by pushing the operating lever from the intermediate position to the lowest open position.



Insulation behaviour

In the open position, the circuit-breaker guarantees insulation distances in compliance with the IEC 60947-2 Standard, thus preventing leakage currents to flow between the input and output terminals.



Tropicalization

Circuit-breakers and accessories in the Tmax XT series are tested in compliance with the IEC 60068-2-30 Standard, carrying out 2 cycles at 55 °C with the “variant 1” method (clause 7.3.3).

The suitability of the Tmax XT series under the most severe environmental conditions is further ensured with the hot-humid climate according to climatograph 8 in the IEC 60721-2-1 Standards thanks to:

- molded insulating cases made of synthetic resins reinforced with glass fibers;
- anti-corrosion treatment of the main metallic parts;
- Fe/Zn 12 zinc-plating (ISO 2081) protected by a conversion layer, free from hexavalent chromium (ROHS-compliant), with the same corrosion resistance guaranteed by ISO 4520 class 2C;
- application of anti-condensation protection for electronic overcurrent releases and relative accessories.

Protection

Each switch-disconnector must be protected on the supply side by a coordinated device which safeguards it against short-circuits.

The section "Coordination" in the table below shows the correspondence between each switch-disconnector and the relevant circuit-breaker.

Making capacity

The making capacity I_{cm} is highly important since a switch-disconnector must be able to withstand the dynamic, thermal and current stresses which can occur during closing operations without being destroyed, right up to short-circuit closing conditions.

	00							
	XT5D		XT6D		XT7D		XT7D M	
	400	630	630 - 800 - 1000		1000 - 1250 - 1600		1000 - 1250 - 1600	
	3, 4	3, 4	3, 4		3, 4		3, 4	
	Fixed, Plug-in, Withdrawable		Fixed, Withdrawable ⁽¹⁾		Fixed, Withdrawable		Fixed, Withdrawable	
	690	690	690		690		690	
	750	750	750		750		750	
	1000	1000	1000		1000		1000	
	8	8	8		8		8	
	7,65	12,3	30		40		40	
	440	440	220		252		252	
	5	7,6	15		20		20	
	400	630	630 - 800 - 1000		1000 - 1250 - 1600		1000 - 1250 - 1600	
	400	630	630 - 800		1000 - 1250 - 1600		1000 - 1250 - 1600	
	400	630	630 - 800 - 1000		1000 - 1250 - 1600		1000 - 1250 - 1600	
	400	630	630 - 800		1000 - 1250 - 1600		1000 - 1250 - 1600	
	400 2p in series	630 2p in series	630 - 800 - 1000 - 2p in series		1000 - 1250 - 1600 - 2p in series		1000 - 1250 - 1600 - 2p in series	
	400 2p in series	630 2p in series	630 - 800 - 2p in series		1000 - 1250 - 1600 - 2p in series		1000 - 1250 - 1600 - 2p in series	
	400 2p in series	630 2p in series	630 - 800 - 1000 - 2p in series		1000 - 1250 - 1600 - 3p in series		1000 - 1250 - 1600 - 3p in series	
	400 2p in series	630 2p in series	630 - 800 - 2p in series		1000 - 1250 - 3p in series		1000 - 1250 - 3p in series	
	400 3p in series	630 3p in series	630 - 800 - 1000 - 3p in serie		1000 - 1250 - 1600 - 4 p in series		1000 - 1250 - 1600 - 4 p in series	
	400 3p in series	630 3p in series	630 - 800 - 3p in serie		1000 - 1250 - 4 p in series		1000 - 1250 - 4 p in series	
	5,000	3,000	3,500		2,500		2,500	
	20,000	20,000	20,000		10,000		20,000	

		XT5 630					XT6 800			XT6 1000			XT7 1000			XT7 1250			XT7 1600			XT7 M 1000			XT7 M 1250			XT7 M 1600				
		N	S	H	L	V	N	S	H	N	S	H	S	H	L	S	H	L	S	H	L	S	H	L	S	H	L	S	H	L		
	36	50	70	120	200	36	50	70	36	50	70	50	70	120	50	70	120	50	70	120	50	70	120	50	70	120	50	70	120	50	70	120
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36	50	70	120	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36	50	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	36	50	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	36	50	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	50	70	120	-	-	-	-	-	-	50	70	120	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	70	120	-	-	-	-	-	-	50	70	120	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	70	120	-	-	-	-	-	-	50	70	120	-	-	-

Summary

A brief overview and more useful information

Order Codes

A brief overview and more useful information

The link provided here will redirect you to the **detailed product catalog**, where you can find more **information about the products and the order codes**.

[https://search.abb.com/library/Download.aspx?
DocumentID=1SDC210100D0203&LanguageCode=en&DocumentPartId=&Action=Launch](https://search.abb.com/library/Download.aspx?DocumentID=1SDC210100D0203&LanguageCode=en&DocumentPartId=&Action=Launch)