

DATA SHEET

SACE® Tmax® XT Molded Case Circuit Breakers

XT6 – 800A Frame Size



800 A frame available up to 600 V UL. Thermal-magnetic, MCS, MCP and basic electronic trip units. Max. interrupt rating of 65 kA at 480 V, 35 kA at 600 V. Ideal for covering simple distribution economically. Snap-in accessories make field modifications easy.

Molded Case Circuit Breaker (MCCB)		XT6		
Frame Size		[A]	800	
Poles		[No.]	3, 4	
Rated Voltage	(AC) 50-60 Hz	[V]	600	
	(DC)	[V]	600	
Versions			Fixed, Withdrawable	
Interrupting Ratings			N	S H
240 VAC		[kA]	65	100 200
480 VAC		[kA]	35	50 65
600Y/347 VAC		[kA]	-	- -
600 VAC		[kA]	20	25 35
250 VDC 2p in series		[kA]	35	50 70
500 VDC 2p in series		[kA]	25	35 50
500 VDC 3p in series		[kA]	-	- -
500 VDC 4p in series		[kA]	-	- -
600 VDC 3p in series		[kA]	20	20 35
Mechanical Life		[No. Operations]	20,000	
		[No. Hourly Operations]	120 (AC), 60 (DC)	
Dimensions - Fixed (W x D x H)	3p	[mm]/[in.]	[210 x 103.5 x 268]/[8.27 x 4.07 x 10.55]	
	4p	[mm]/[in.]	[280 x 103.5 x 268]/[11.02 x 4.07 x 10.55]	
Weight	Fixed 3p/4p	[kg - lb]	[9.5 - 20.94]/[12 - 26.46]	
	Plug-in (EF) 3p/4p	[kg - lb]		
	Withdrawable (EF) 3p/4p	[kg - lb]	[12.1 - 26.68]/[15.1 - 33.29]	

Compliance with standards

SACE® Tmax XT circuit-breakers and their accessories are constructed in compliance with¹:

- Standards:
 - UL489 (MCCB File # E93565, MCS File # E116595, & Accessories File # E116596) and CSA C22.2;
 - HACR Type
- Directives:
 - EC “Low Voltage Directive” (LVD) N° 2014/35/EC;
 - EC “Electromagnetic Compatibility Directive” (EMC) 2014/30/EC;
- Shipping Registers approvals upon request.

Terminal options

Fixed version:

The standard fixed version of the SACE® Tmax XT circuit breakers are supplied with front terminals (F) and can be fitted with the following types of terminals as accessories thanks to the special kits:

- Extended front (EF)
- Extended spread front (ES)
- Front for copper/aluminum cables (FCCuAl)
- Rear oriented (R)

Withdrawable versions:

Please see the [Tmax XT Technical Catalog](#) for more details.

Trip unit options

- Thermal Magnetic Adjustable (TMA)
- Ekip Dip (LS/I, LSI, LIG, LSIG)
- Ekip M Dip (I)
- Ekip G Dip (LS/I)
- Molded Case Switch (MCS)

Accessories

- Terminal Options
- Auxiliary Contacts
- Operating Mechanisms (Direct Handles, Extended Handles, Flange Handles, etc.)
- Remote Control (Shunt Trip, Undervoltage Release, Motor Operator, etc.)
- Safety and Protection (Terminal Covers, Phase Separators, Padlocks, Keylocks, IP Protection, etc.)
- Interlocks

Included with the breaker

The breaker comes with breaker mounting hardware, terminal hardware, phase barriers, an insulation backplate, and lateral conduit for accessory wires.

Temperature rating

Tmax XT circuit breakers can be used in ambient air temperatures varying between -25°C and +70°C, and can be stored at temperatures between -40°C and +70°C. Please consult the [temperature performance derating tables](#) for temperature values outside of +40°C. The reference temperature for the trip units is +40°C. Note that the lug and wire insulation ratings are +75°C, so care should be exercised when operating near this temperature in order not to exceed these ratings.

100% rated

A Fixed XT6 breaker is suitable for continuous operation at 100-percent of rating up to 800A with electronic trip units and 90°C wire. The wire size shall be based on the ampacity of 75°C rated wire..

Single phase application

XT6 three pole circuit breakers can be used in single phase applications. For this purpose, they are marked as follows according to UL standard: Suitable for single phase application up to 600VAC.

Reverse feed capabilities

Power can be supplied from the bottom terminals of the XT6 breaker up to the maximum voltage rating.

Related links

[Installation Instructions](#)

Drawings

- [XT6 Fixed 3-4p breaker \(2D\)](#)
- [XT6 Fixed 3p breaker \(3D\)](#)
- [XT6 Fixed 4p breaker \(3D\)](#)

1. Product complies with listed standards and directives as of the date of this publication