

# Instructions for ordering

## Tmax XT catalog number explanation

XT	2	L	U	3	125	G	F	F	E	E	D	X	X	X
1&2	3	4	5	6	7,8&9	10	11	12	13	14	15	16	17	18

### 1 & 2 - Tmax XT prefix, XT

3 - Frame size	
1	XT1 - to 125A, 600Y/347V (UL) / 160A, 690V (IEC) - Thermal magnetic protection
2	XT2 - to 125A, 600V (UL) / 160A (IEC), 690V - Thermal magnetic and electronic protection
3	XT3 - to 225A, 600Y/347V (UL) / 250A, 690V (IEC) - Thermal magnetic protection
4	XT4 - to 250A, 600V (UL) / 250A, 690V (IEC) - Thermal magnetic and electronic protection

### 4 - Breaking capacity

	B	C	N	S	H	L	V	X
UL kA @ 480V	-	-	25	35	65	100	150	200
UL kA @ 600Y/347V	-	-	18/10 <sup>(1)</sup>	22/10 <sup>(1)</sup>	25	-	-	-
UL kA @ 600V	-	-	18	22	25	35/50 <sup>(2)</sup>	42/65 <sup>(2)</sup>	42/100/65 <sup>(2)</sup>
IEC kA @ 415V	18	25	36	50	70	120	150	-

<sup>(1)</sup>Breaking capacities are 18(N) and 22(S) for XT1 and 10 (N&S) for XT3.

<sup>(2)</sup>Breaking capacities are 35 (L) and 42 (V&X) for XT2 and 50 (L), 65 (V) for XT4 with X at 100 to 150A and 65 to 250A.

Note: H, L and V breaking capacities for XT2 and XT4 UL are Current Limiting.

### 5 - Standard

		+ CCC Mark
UL 80% rated / IEC dual rated	U	C <sup>(1)</sup>
UL 100% rated / IEC dual rated	Q	L <sup>(1)</sup>
IEC only / use only for IEC specific needs	E	R
IEC for 50°C	5	-

<sup>(1)</sup>Product is in development. Contact ABB for availability.

### 6 - Number of poles

2	2 Poles (XT4 N UL version only)
3	3 Poles
4	4 Poles, 100% Neutral
N	4 Poles 50% Neutral (IEC, TMD/TMA over 100A only)

### 7-9 - Nominal current

UL Circuit Breakers		10A	15A	20A	25A	30A	35A	40A	45A	50A	60A	70A
XT1	TMF	-	015	020	025	030	035	040	045	050	060	070
XT2	TMF/TMA <sup>(1)</sup>	-	015	020	025	030	035	040	-	050	060	070
	Ele	010	-	-	025	-	-	-	-	-	060	-
XT3	TMF	-	-	-	-	-	-	-	-	-	060	070
XT4	TMF/TMA <sup>(2)</sup>	-	-	-	025	030	035	040	-	050	060	070
	Ele	-	-	-	-	-	-	040	-	-	060	-
		80A	90A	100A	110A	125A	150A	175A	200A	225A	250A	
XT1	TMF	080	090	100	110	125	-	-	-	-	-	-
XT2	TMF/TMA <sup>(1)</sup>	080	090	100	110	125	-	-	-	-	-	-
	Ele	-	-	100	-	125	-	-	-	-	-	-
XT3	TMF	080	090	100	110	125	150	175	200	225	-	-
XT4	TMF/TMA <sup>(2)</sup>	080	090	100	110	125	150	175	200	225	250	-
	Ele	-	-	100	-	-	150	-	-	225	250	-

<sup>(1)</sup>Tmax XT2 are thermal magnetic fixed through 70A and thermal magnetic adjustable for 80A and higher.

<sup>(2)</sup>Tmax XT4 are thermal magnetic fixed through 70A for all pole versions. 80A and higher 2-pole versions have thermal magnetic fixed. 3-pole versions have both thermal magnetic fixed and adjustable options and 4-pole versions have thermal magnetic adjustable.

UL Motor Protection		3A	7A	15A	25A	30A	40A	50A	60A	70A
XT1	MCP (MA)	003	007	015	-	030	-	050	-	070
XT2	MCP (MA)	003	007	015	-	030	-	050	-	070
	M-LIU	-	-	-	025	-	-	-	060	-
XT3	MCP (MA)	-	-	-	-	-	-	-	-	-
XT4	MCP (MA)	-	-	-	025	-	-	050	-	-
	M-LIU	-	-	-	-	-	040	-	060	-
		<b>80A</b>	<b>100A</b>	<b>110A</b>	<b>125A</b>	<b>150A</b>	<b>175A</b>	<b>200A</b>	<b>225A</b>	<b>250A</b>
XT1	MCP (MA)	080	100	-	125	-	-	-	-	-
XT2	MCP (MA)	080	100	-	125	-	-	-	-	-
	M-LIU	-	100	-	-	-	-	-	-	-
XT3	MCP (MA)	-	100	110	125	150	-	200	-	-
XT4	MCP (MA)	080	100	110	125	150	175	200	225	250
	M-LIU	-	100	-	-	150	-	-	-	-

UL Switches		125A	225A	250A					
XT1	MCS	125	-	-					
XT2	MCS	125	-	-					
XT3	MCS	-	225	-					
XT4	MCS	-	-	250					

IEC Circuit Breakers		4A	5A	8A	10A	16A	20A	25A	32A	40A
XT1	TMD	-	-	-	-	016	020	025	032	040
XT2	TMD/TMA <sup>(1)</sup>	004	005	008	010	016	020	025	032	040
	Ele	-	-	-	010	-	-	025	-	-
XT3	TMD	-	-	-	-	-	-	-	-	-
XT4	TMD/TMA <sup>(1)</sup>	-	-	-	-	016	020	025	032	040
	Ele	-	-	-	-	-	-	-	-	040
		<b>50A</b>	<b>63A</b>	<b>80A</b>	<b>100A</b>	<b>125A</b>	<b>160A</b>	<b>200A</b>	<b>225A</b>	<b>250A</b>
XT1	TMD	050	063	080	100	125	160	-	-	-
XT2	TMD/TMA <sup>(1)</sup>	050	063	080	100	125	160	-	-	-
	Ele	-	063	-	100	-	160	-	-	-
XT3	TMD	-	063	080	100	125	160	200	-	250
XT4	TMD/TMA <sup>(1)</sup>	050	063	080	100	125	160	200	225	250
	Ele	-	063	-	100	-	160	-	-	250

<sup>(1)</sup>Tmax XT2 and XT4 IEC are thermal magnetic with adjustable overload and fixed instantaneous through 32A and thermal magnetic adjustable for 40A and higher.

IEC Motor Protection		1A	2A	4A	10A	20A	32A	52A	80A	100A
XT2	MF/MA	001	002	004	-	020	032	052	080	100
	MI	-	-	-	-	020	032	052	-	100
XT3	MA	-	-	-	-	-	-	-	-	100
XT4	MA	-	-	-	010	020	032	052	080	100
		<b>125A</b>	<b>160A</b>	<b>200A</b>						
XT2	MF/MA	-	160	-						
	MI	-	-	-						
XT3	MA	125	160	200						
XT4	MA	125	160	200						

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IEC Switches		160A	250A							
XT1	MCS	160	-							
XT3	MCS	-	250							
XT4	MCS	-	250							

IEC Generator Protection		16A	20A	25A	32A	40A	50A	63A	80A	100A	125A
XT2	TMG	016	020	025	032	040	050	063	080	100	125
XT3	TMG	-	-	-	-	-	-	063	080	100	125
		160A	200A	250A							
XT2	TMG	160	-	-							
XT3	TMG	160	200	250							

## 10 - Trip unit

<b>A</b>	Thermal magnetic fixed (TMF)
<b>B</b>	Thermal magnetic adjustable (TMD/TMA)
<b>D</b>	Molded case switch disconnecter
<b>E</b>	Ekip LS/I (Electronic, LS/I protection)
<b>F</b>	Ekip LSI (Electronic, LSI protection)
<b>G</b>	Ekip LSIG (Electronic, LSIG protection)
<b>H</b>	Ekip E-LSIG (Electronic, LSIG plus measurements)
<b>J</b>	Ekip I (Electronic, Instantaneous trip only)
<b>K</b>	Ekip M-I (Electronic Motor Protector, I protection) (IEC only)
<b>L</b>	Ekip M-LIU (Electronic Motor Protector with integrated overload and phase loss detection) (UL only)
<b>M</b>	Motor circuit protector (MCP - magnetic only) (MA/MF)
<b>N</b>	Thermal magnetic generator protection (TMG) (IEC only)

## 11 - Line side termination (top)

<b>F</b>	F Front terminals, no lugs installed
<b>A</b>	FC Cu Terminals for Cu cables (Saddle Clamps)
<b>B</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 110A (UL XT2) <sup>(1)</sup>
<b>G</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 100A (UL XT3, UL XT4) <sup>(2)</sup>
<b>H</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 100A, Control Tap Included (UL XT3, UL XT4) <sup>(1)(2)</sup>
<b>J</b>	FC CuAl Terminals for CuAl cables, 4 AWG-300 kcmil, 225A (UL XT3, UL XT4) <sup>(2)</sup>
<b>K</b>	FC CuAl Terminals for CuAl cables, 4 AWG-300 kcmil, 225A, Control Tap Included (UL XT3, UL XT4) <sup>(1)(2)</sup>
<b>L</b>	FC CuAl Terminals for CuAl Cables, 250-350 kcmil, 250A (UL XT4) <sup>(1)(2)</sup>
<b>Z</b>	MC Multi-cable terminals for Cu (6 wire)
<b>1</b>	EF Extended front terminals
<b>2</b>	ES Extended spread terminals
<b>3</b>	FB Terminals for flexible busbar (IEC only)
<b>4</b>	R Rear terminals (IEC only)
<b>5</b>	Panel board Adapter <sup>(1)</sup>
<b>6</b>	Plug-in kit (Must also use 6 for load side)
<b>7</b>	Withdrawable kit - XT2 & XT4 only (Must also use 7 for the load side)

<sup>(1)</sup>Product is in development. Contact ABB for availability.

<sup>(2)</sup>Not available for XT4 X version to 150A.

Note: Additional terminal options are available as loose accessories for IEC versions. Please see the IEC catalog for more details.

## 12 - Load side termination (bottom)

<b>F</b>	F Front terminals, no lugs installed
<b>A</b>	FC Cu Terminals for Cu cables (Saddle Clamps)
<b>B</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 110A (UL XT2) <sup>(1)</sup>
<b>G</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 100A (UL XT3, UL XT4) <sup>(2)</sup>
<b>H</b>	FC CuAl Terminals for CuAl cables, 14-1/0 AWG, 100A, Control Tap Included (UL XT3, UL XT4) <sup>(1)(2)</sup>
<b>J</b>	FC CuAl Terminals for CuAl cables, 4 AWG-300 kcmil, 225A (UL XT3, UL XT4) <sup>(2)</sup>
<b>K</b>	FC CuAl Terminals for CuAl cables, 4 AWG-300 kcmil, 225A, Control Tap Included (UL XT3, UL XT4) <sup>(1)(2)</sup>
<b>L</b>	FC CuAl Terminals for CuAl Cables, 250-350 kcmil, 250A (UL XT4) <sup>(1)(2)</sup>
<b>Z</b>	MC Multi-cable terminals for Cu (6 wire)
<b>1</b>	EF Extended front terminals
<b>2</b>	ES Extended spread terminals
<b>3</b>	FB Terminals for flexible busbar (IEC only)
<b>4</b>	R Rear terminals (IEC only)
<b>6</b>	Plug-in kit (Must also use 6 for line side)
<b>7</b>	Withdrawable kit - XT2 & XT4 only (Must also use 7 for the line side)

<sup>(1)</sup>Product is in development. Contact ABB for availability.

<sup>(2)</sup>Not available for XT4 X version to 150A.

Note: Additional terminal options are available as loose accessories for IEC versions. Please see the IEC catalog for more details.

## 13 - Internal accessories - left of mechanism

<b>0</b>	None
<b>A</b>	SOR Shunt trip 12V DC
<b>B</b>	SOR Shunt trip 24-30V AC/DC
<b>C</b>	SOR Shunt trip 48-60V AC/DC
<b>D</b>	SOR Shunt trip 110-127V AC / 110-125V DC
<b>E</b>	SOR Shunt trip 220-240V AC / 220-250V DC
<b>F</b>	SOR Shunt trip 380-440V AC
<b>G</b>	SOR Shunt trip 480-525V AC
<b>Z</b>	AUX 3Q 250V AC/DC (not available for withdrawable)
<b>1</b>	UVR Undervoltage release 24-30V AC/DC
<b>2</b>	UVR Undervoltage release 48V AC/DC
<b>3</b>	UVR Undervoltage release 60V AC/DC
<b>4</b>	UVR Undervoltage release 110-127V AC 110-125V DC
<b>5</b>	UVR Undervoltage release 220-240V AC 220-250V DC
<b>6</b>	UVR Undervoltage release 380-440V AC
<b>7</b>	UVR Undervoltage release 480-525V AC

Note: A second option for the left side of the mechanism is available on a 4-pole circuit breaker as a loose accessory.

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## 14 - Internal accessories - right of mechanism

<b>0</b>	None
<b>A</b>	AUX 1Q, 1SY 250V AC/DC
<b>B</b>	AUX 2Q, 1SY 250V AC/DC (not available for withdrawable)
<b>C</b>	AUX 3Q, 1SY 250V AC/DC (not available for XT1)
<b>D</b>	AUX 3Q, 2SY 250V AC/DC (XT2, XT4)
<b>E</b>	AUX 2Q, 2SY, 1 S51 250V AC/DC (XT2, XT4)
<b>F</b>	AUX 1 S51 250V AC/DC (XT2, XT4)
<b>G</b>	AUX 1Q, 1SY 24V DC
<b>H</b>	AUX 3Q, 1SY 24V DC (not available for XT1)
<b>J</b>	AUX 1 S51 24V DC (XT2, XT4)
<b>K</b>	AUX 1Q, 1SY 400V AC (XT2, XT4 not compatible with other right side AUX)
<b>L</b>	AUX 2Q 400V AC (XT2, XT4 not compatible with other right side AUX)
<b>1</b>	Ekip Com (XT2, XT4, not compatible with other right side AUX)
<b>2</b>	Ekip Com + Aux 1S51 24V DC (XT2, XT4, not compatible with other right side AUX)
<b>3</b>	Ekip Com + Aux 1S51 250V AC/DC (XT2, XT4, not compatible with other right side AUX)

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## 15 - Front accessories

<b>0</b>	None
<b>A</b>	Motor operator 24V DC
<b>B</b>	Motor operator 48-60V DC
<b>C</b>	Motor operator 110-125V AC/DC
<b>D</b>	Motor operator 220-250V AC/DC
<b>E</b>	Motor operator 380-440V AC
<b>F</b>	Motor operator 480 - 525V AC
<b>G</b>	PLL Fixed padlock device in open/closed position
<b>H</b>	PLL Fixed padlock device in open position
<b>J</b>	PLL Removable padlock device in open position (XT1, XT3)
<b>K</b>	FLD Front for locking operating lever mechanism (XT2, XT4)
<b>L</b>	RHD Normal direct handle
<b>M</b>	RHD Emergency direct handle
<b>N</b>	RHE Variable depth mechanism, standard
<b>P</b>	RHE Variable depth mechanism, with padlock
<b>Q</b>	RHD Normal direct handle + Early Aux contact, opening
<b>R</b>	RHD Emergency direct handle + Early Aux contact, opening
<b>S</b>	RHE Variable depth mechanism, standard + Early Aux contact, opening
<b>T</b>	RHE Variable depth mechanism, with padlock + Early Aux Contact, opening
<b>U</b>	RHD Normal direct handle + Early Aux contact, closing
<b>V</b>	RHD Emergency direct handle + Early Aux contact, closing
<b>W</b>	RHE Variable depth mechanism, standard + Early Aux contact, closing
<b>X</b>	RHE Variable depth mechanism, with padlock + Early Aux Contact, closing
<b>1</b>	Motor operator for use with Modbus 24V DC (IEC only)
<b>2</b>	Motor operator for use with Modbus 48-60V DC (IEC only)
<b>3</b>	Motor operator for use with Modbus 110-125V AC/DC (IEC only)
<b>4</b>	Motor operator for use with Modbus 220-250V AC/DC (IEC only)
<b>5</b>	Motor operator for use with Modbus 380-440V AC (IEC only)
<b>6</b>	Motor operator for use with Modbus 480 - 525V AC (IEC only)

### 16 - Key locks

<b>X</b>	None
<b>A</b>	Ronis key lock, open position- A type
<b>B</b>	Ronis key lock, open position - B type
<b>C</b>	Ronis key lock, open position - C type
<b>D</b>	Ronis key lock, open position - D type
<b>E</b>	Ronis key lock, open position - different keys
<b>F</b>	Ronis key lock, open/closed - different keys (not available for motors)

Note: Key locks are available for placement on the circuit breaker, on rotary handle mechanisms or on motors. Key locks for motors are IEC only.

### 17 - For future use

<b>X</b>	None
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### 18 - Additional certifications

<b>X</b>	None			
		<b>3yr warranty</b>	<b>4yr warranty</b>	<b>5yr warranty</b>
		3	4	5
<b>Test certificate provided (in English)</b>	E	A	B	C
<b>Test certificate provided (in French)</b>	F	G	H	J
<b>Test certificate provided (in Spanish)</b>	S	K	L	M

Note: Extended warranty options require additional paperwork to be completed per order.