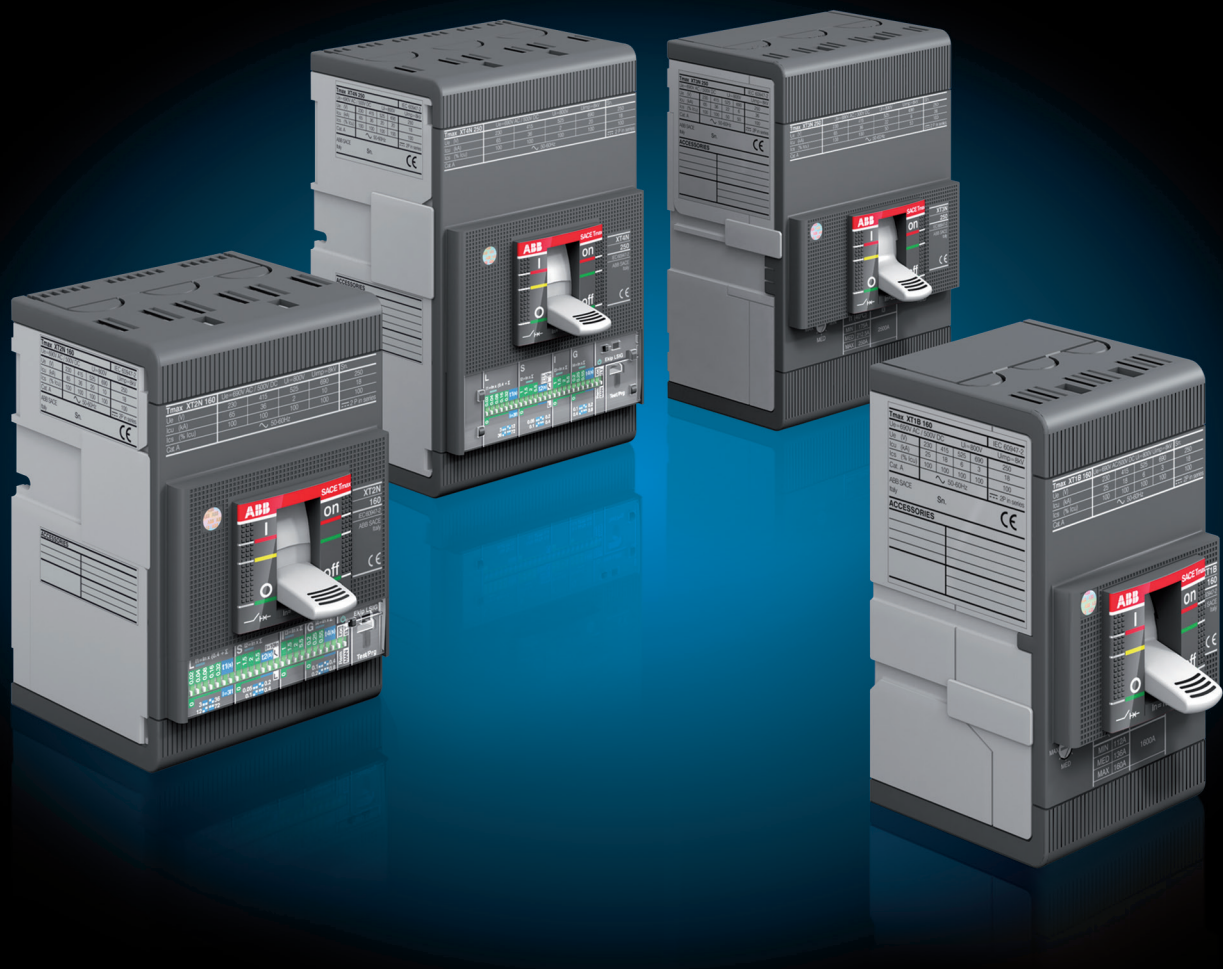




Breakers and Switches

Tmax XT

Moulded-case circuit-breakers

Simply eXTraordinary

Power and productivity
for a better world™



Tmax XT

Simply eXTraordinary



ABB is proud to present you the result of a long and intense research and development project: the new Tmax XT up to 250A - ABB new family of moulded-case circuit-breakers.



XT complete range

4 Tmax XT frames:

- The small XT1 up to 160A
- The high-performing XT2 up to 160A
- The reliable XT3 up to 250A
- The powerful XT4 up to 250A

Tmax XT1 and Tmax XT3 are reliable circuit-breakers for normal requirements. They are available in the three-pole and four-pole versions, both fixed and plug-in type, and with the thermomagnetic trip units.

Tmax XT2 and XT4 are technologically advanced circuit-breakers which offer advanced performances and functionalities and can therefore be used on the highest demanding plants. Electronic and thermomagnetic trip units are available.



Tmax XT

Electrical characteristics

		XT1				
Size		[A]	160			
Poles		[N.]	3, 4			
Rated service voltage, Ue	(AC) 50-60Hz	[V]	690			
	(DC)	[V]	500			
Rated insulation voltage, Ui		[V]	800			
Rated impulse withstand voltage, Uimp		[kV]	8			
Versions			Fixed, Plug-in ⁽¹⁾			
Breaking capacities according to IEC 60947-2			B	C	N	S H
Rated ultimate short-circuit breaking capacity, Icu						
Icu @ 415V 50-60Hz (AC)		[kA]	18	25	36	50 70
Icu @ 690V 50-60Hz (AC)		[kA]	3	4	6	8 10
Icu @ 500V (DC) 2 poles in series		[kA]	–	–	–	–
Icu @ 500V (DC) 3 poles in series ⁽²⁾		[kA]	18	25	36	50 70
Rated service short-circuit breaking capacity, Ics						
Ics @ 415V 50-60Hz (AC)		[kA]	100%	100%	100%	75% 50% (37,5)
Ics @ 690V 50-60Hz (AC)		[kA]	100%	100%	75%	50% 50%
Ics @ 500V (DC) 2 poles in series		[kA]	–	–	–	–
Ics @ 500V (DC) 3 poles in series ⁽²⁾		[kA]	100%	100%	100%	100% 75%
Utilisation Category (IEC 60947-2)			A			
Reference Standard			IEC 60947-2			
Isolation behaviour			■			
Mounted on DIN Rail			DIN EN 50022			
Mechanical life	[No. Operations]		25000			
	[No. Hourly operations]		240			
Electrical life @ 415V (AC)	[No. Operations]		8000			
	[No. Hourly operations]		120			
Dimensions - Fixed (Width x Depth x Height) 	3 poles	[mm]	76,2 x 70 x 130			
	4 poles	[mm]	101,6 x 70 x 130			
Total opening time						
Circuit-breaker with shunt opening release		[ms]	15			
Circuit-breaker with undervoltage release		[ms]	15			
Trip units for power distribution						
TMD/TMA						
TMD			■			
Ekip LS/I						
Ekip LSIG						
Ekip E						
Trip units for motor protection						
MF/MA						
Interchangeable trip units						
Weight Fixed	3/4 poles	[kg]	1,1 / 1,4			

⁽¹⁾ XT1 plug-in: I_n max=125A

⁽²⁾ XT1 500V DC 4 poles in series

XT2			XT3		XT4		
160			250		160 / 250		
3, 4			3, 4		3, 4		
690			690		690		
500			500		500		
1000			800		1000		
8			8		8		
Fixed, Plug-in, Withdrawable			Fixed, Plug-in		Fixed, Plug-in, Withdrawable		
N	S	H	N	S	N	S	H
36			36		36		
50			50		50		
70			70		70		
10			5		10		
12			6		12		
15			36		50		
–			–		70		
36			36		36		
50			50		50		
70			70		70		
100%			75%		100%		
100%			50% (27)		100%		
100%			75%		100%		
100%			50%		100%		
–			–		100%		
100%			–		100%		
100%			100%		100%		
100%			75%		100%		
A			A		A		
IEC 60947-2			IEC 60947-2		IEC 60947-2		
■			■		■		
DIN EN 50022			DIN EN 50022		DIN EN 50022		
25000			25000		25000		
240			240		240		
8000			8000		8000		
120			120		120		
90 x 82,5 x 130			105 x 70 x 150		105 x 82,5 x 160		
120 x 82,5 x 130			140 x 70 x 150		140 x 82,5 x 160		
15			15		15		
15			15		15		
■			■		■		
■			■		■		
■			■		■		
■			■		■		
■			■		■		
■			■		■		
■			■		■		
1,2 / 1,6			1,7 / 2,1		2,5 / 3,5		

Tmax XT

Simply eXTraordinary



2010 Red dot Design Award winner, Tmax XT set up a new technological standard.

- eXTraordinary demonstration of ABB innovation capability.
- eXTraordinary latest generation electronics.
- eXTraordinary coverage of all plant requirements.
- eXTraordinary performances in compact dimensions.
- eXTraordinary simplicity of installation and putting into service.
- eXTraordinary range of accessories available.



reddot design award

Main characteristics

Tmax XT1

Frames and In: XT1 up to 160A

Poles: 3, 4

Ue: AC 50-60Hz 690V, DC 500V

Versions: F, P

Icu: XT1 @415V AC: B, C, N, S, H up to 70kA

Trip units: TMD

Dimensions: (W 3p/4p x D x H) 76,2/101,6x 70 x 130mm

XT1D switch-disconnector version

Tmax XT2

Frames and In: XT2 up to 160A

Poles: 3, 4

Ue: AC 50-60Hz 690V, DC 500V

Versions: F, P, W

Icu: XT2 @415V AC: N, S, H up to 70kA

@690V AC: N, S, H up to 15kA

Trip units: TMD/TM MF/MA, Ekip LS/I, Ekip LSIG

Interchangeable trip units

Dimensions: (W 3p/4p x D x H) 90/120 x 82.5 x 130 mm

Tmax XT3

Frames and In: XT3 up to 250A

Poles: 3, 4

Ue: AC 50-60Hz 690V, DC 500V

Versions: F, P

Icu: @415V AC: N, S up to 50kA

Trip units: TMD, MA

Dimensions: (W 3p/4p x D x H) 105/140 x 70 x 150 mm

XT3D switch-disconnector version

Tmax XT4

Frames and In: XT4 up to 160A / 250A

Poles: 3, 4

U_e: AC 50-60Hz 690V, DC 500V

Versions: F, P, W

Icu: XT4 @415V AC: N, S, H up to 70kA

@690V AC: N, S, H, up to 15kA

Trip units: TMD/TMA, MF/MA, Ekip LS/I, Ekip LSIG, Ekip

E-LSIG

Interchangeable trip units

Dimensions: (W 3p/4p x D x H) 105/140 x 82,5 x 160 mm

XT1 160 Thermal magnetic - Fixed (F) - 3 poles - Front terminals

36 kA		50 kA		70 kA	
1SDA066799R1	XT1B 160 TMD 16-450 3p F F - 16kA				
1SDA066800R1	XT1B 160 TMD 20-450 3p F F - 16kA				
1SDA067391R1	XT1C 160 TMD 25-450 3p F F - 25kA				
1SDA067411R1	XT1N 160 TMD 32-450 3p F F				
1SDA067412R1	XT1N 160 TMD 40-450 3p F F				
1SDA067413R1	XT1N 160 TMD 50-500 3p F F	1SDA067431R1	XT1S 160 TMD 50-500 3p F F	1SDA067449R1	XT1H 160 TMD 50-500 3p F F
1SDA067414R1	XT1N 160 TMD 63-630 3p F F	1SDA067432R1	XT1S 160 TMD 63-630 3p F F	1SDA067450R1	XT1H 160 TMD 63-630 3p F F
1SDA067415R1	XT1N 160 TMD 80-800 3p F F	1SDA067433R1	XT1S 160 TMD 80-800 3p F F	1SDA067451R1	XT1H 160 TMD 80-800 3p F F
1SDA067416R1	XT1N 160 TMD 100-1000 3p F F	1SDA067434R1	XT1S 160 TMD 100-1000 3p F F	1SDA067452R1	XT1H 160 TMD 100-1000 3p F F
1SDA067417R1	XT1N 160 TMD 125-1250 3p F F	1SDA067435R1	XT1S 160 TMD 125-1250 3p F F	1SDA067453R1	XT1H 160 TMD 125-1250 3p F F
1SDA067418R1	XT1N 160 TMD 160-1600 3p F F	1SDA067436R1	XT1S 160 TMD 160-1600 3p F F	1SDA067454R1	XT1H 160 TMD 160-1600 3p F F

XT2 160 Electronic and Magnetic only - Fixed (F) - 3 poles - Front terminals

36 kA		50 kA		70 kA	
1SDA067056R1	XT2N 160 Ekip LS/I In=63A 3p F F	1SDA067765R1	XT2S 160 MA 20 Im=120...280 3p F F	1SDA067859R1	XT2H 160 Ekip LS/I In=63A 3p F F
1SDA067057R1	XT2N 160 Ekip LS/I In=100A 3p F F	1SDA067766R1	XT2S 160 MA 32 Im=192...448 3p F F	1SDA067860R1	XT2H 160 Ekip LS/I In=100A 3p F F
1SDA067058R1	XT2N 160 Ekip LS/I In=160A 3p F F	1SDA067767R1	XT2S 160 MA 52 Im=314...728 3p F F	1SDA067861R1	XT2H 160 Ekip LS/I In=160A 3p F F
		1SDA067768R1	XT2S 160 MA 80 Im=480...1120 3p F F		
1SDA067074R1	XT2N 160 Ekip LSIG In=63A 3p F F	1SDA067769R1	XT2S 160 MA 100 Im=600...1400 3p F F	1SDA067874R1	XT2H 160 Ekip LSIG In=63A 3p F F
1SDA067075R1	XT2N 160 Ekip LSIG In=100A 3p F F			1SDA067875R1	XT2H 160 Ekip LSIG In=100A 3p F F
1SDA067076R1	XT2N 160 Ekip LSIG In=160A 3p F F			1SDA067876R1	XT2H 160 Ekip LSIG In=160A 3p F F

XT3 250 Thermal magnetic - Fixed (F) - 3 poles - Front terminals

36 kA		50 kA			
1SDA068053R1	XT3N 250 TMD 63-630 3p F F	1SDA068215R1	XT3S 250 TMD 63-630 3p F F		
1SDA068054R1	XT3N 250 TMD 80-800 3p F F	1SDA068216R1	XT3S 250 TMD 80-800 3p F F		
1SDA068055R1	XT3N 250 TMD 100-1000 3p F F	1SDA068217R1	XT3S 250 TMD 100-1000 3p F F		
1SDA068056R1	XT3N 250 TMD 125-1250 3p F F	1SDA068218R1	XT3S 250 TMD 125-1250 3p F F		
1SDA068057R1	XT3N 250 TMD 160-1600 3p F F	1SDA068219R1	XT3S 250 TMD 160-1600 3p F F		
1SDA068058R1	XT3N 250 TMD 200-2000 3p F F	1SDA068220R1	XT3S 250 TMD 200-2000 3p F F		
1SDA068059R1	XT3N 250 TMD 250-2500 3p F F	1SDA068221R1	XT3S 250 TMD 250-2500 3p F F		

XT4 160/250 Thermal magnetic and electronic - Fixed (F) - 3 poles - Front terminals

36 kA				70 kA	
1SDA068090R1	XT4N 250 TMA 200-2500 3p F F			1SDA068343R1	XT4H 250 TMA 200-2000 3p F F
1SDA068092R1	XT4N 250 TMA 250-2500 3p F F			1SDA068345R1	XT4H 250 TMA 250-2500 3p F F
1SDA068125R1	XT4N 160 Ekip LS/I In=160A 3p F F			1SDA068514R1	XT4H 160 Ekip LS/I In=160A 3p F F
1SDA068126R1	XT4N 250 Ekip LS/I In=250A 3p F F			1SDA068515R1	XT4H 250 Ekip LS/I In=250A 3p F F
1SDA068140R1	XT4N 160 Ekip LSIG In=160A 3p F F			1SDA068529R1	XT4H 160 Ekip LSIG In=160A 3p F F
1SDA068141R1	XT4N 250 Ekip LSIG In=250A 3p F F			1SDA068530R1	XT4H 250 Ekip LSIG In=250A 3p F F
1SDA069601R1	XT4N 160 Ekip E-LSIG In=40A 3p F F			1SDA069621R1	XT4H 160 Ekip E-LSIG In=40A 3p F F
1SDA069602R1	XT4N 160 Ekip E-LSIG In=63A 3p F F			1SDA069622R1	XT4H 160 Ekip E-LSIG In=63A 3p F F
1SDA069603R1	XT4N 160 Ekip E-LSIG In=100A 3p F F			1SDA069623R1	XT4H 160 Ekip E-LSIG In=100A 3p F F
1SDA069604R1	XT4N 160 Ekip E-LSIG In=160A 3p F F			1SDA069624R1	XT4H 160 Ekip E-LSIG In=160A 3p F F
1SDA069605R1	XT4N 250 Ekip E-LSIG In=250A 3p F F			1SDA069625R1	XT4H 250 Ekip E-LSIG In=250A 3p F F

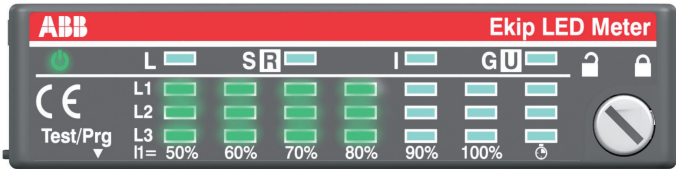
XT1 - XT3 Switch disconnecter - Fixed (F) - 3 poles - Front terminals

1SDA068208R1	XT1D 160 3p F F
1SDA068210R1	XT3D 250 3p F F

Electronic trip unit



Ekip LED Meter



Ekip LED Meter can be easily installed on the front of Ekip LSIG and Ekip E-LSIG electronic trip units by means of the test connector on the front of the release. Ekip LED Meter provides an accurate indication of the value of the current flowing through the trip unit by means of an LED scale, which is able to discriminate between operation, pre-alarm and alarm.

Ekip Display



Ekip Display can easily be installed on the front of the Ekip LSIG and Ekip E-LSIG electronic trip units by the means of the test connector on the front of the trip unit. Ekip Display has four buttons for browsing through the menus.

Ekip Display

- Shows the current values.
- Shows the settings of the protection functions.
- Shows the protection that caused the release to trip and the fault current.
- Allows the trip thresholds of the trip unit to be programmed and the communication parameters to be set on bus system.

Test and programming units



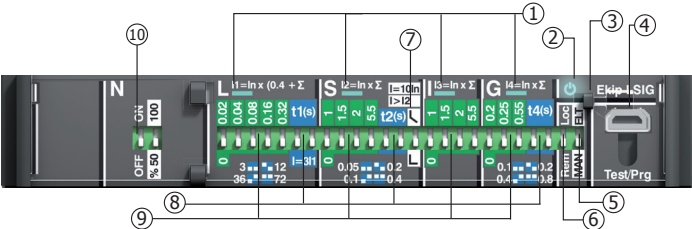
Ekip T&P test and programming purpose offers supervision, configuration and testing of advanced electronic trip units..



Ekip TT can be used to verify the correct functioning of the electronic trip unit's actuation mechanism and to give supply to the trip unit after the breaker trip.

Names

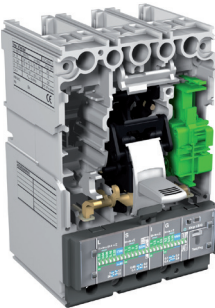
Names	Application	Protection functions
Ekip	...	Distribution
E	Energy metering	LSIG



Characteristics

1. LEDs Protection L, S, I, G
2. Power on LED
3. Lead seal arrangement
4. USB test connector
5. Manual / electronic configuration selector
6. Local / remote configuration selector
7. Selection of S time-current curve
8. Selection of protection functions thresholds
9. Configuration of LSIG protection functions
10. ON/ OFF selector for Neutral

Ekip Com



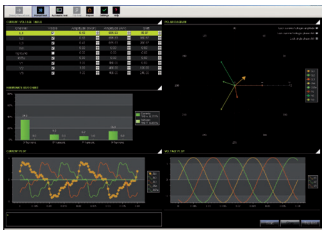
Circuit-breaker 3 poles

Ekip Com is able to connect Ekip LSIG and Ekip E-LSIG electronic trip unit to a Modbus communication line so that ON/OFF/TRIP state of the circuit-breaker can be detected and MOE-E motor operator can be controlled.

Ekip Com module is installed in a dedicated slot in the right-hand pole of the circuit-breaker without any need for screws or tools. Ekip Com module allows the trip unit to be connected to a Modbus network, offering the possibility of programming the protections and acquiring the measurements and alarms when it is connected to a control and/or supervision system. When it is connected to the HMI030 unit, it is possible to have data locally on the front of the switchboard.

Ekip T&P software

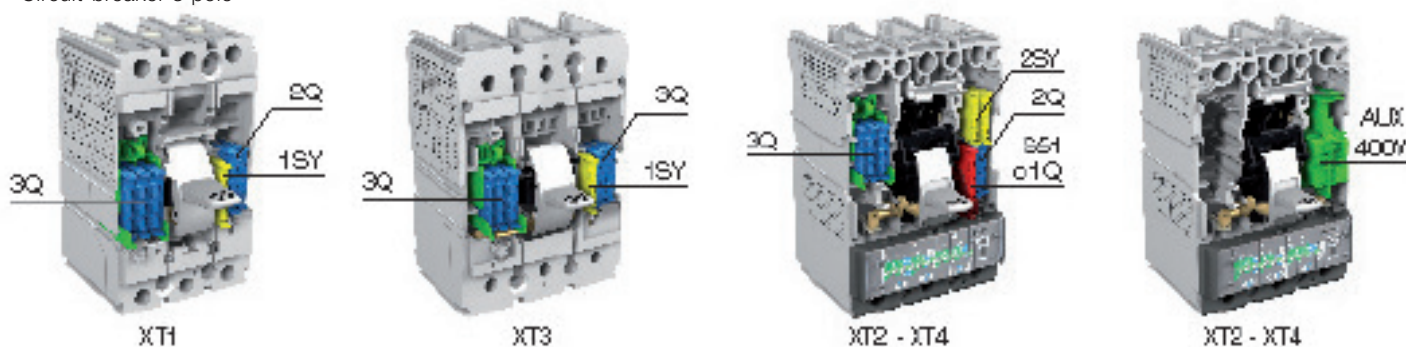
Ekip Connect is a software for installation and diagnosis for ABB products with Modbus RTU communication. In combination with Ekip T&P unit it is possible to perform any test on the trip unit protection functions.



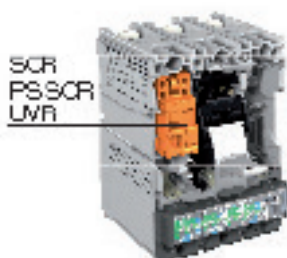
Electrical accessories

Auxiliary Contacts

Circuit-breaker 3 pole



Service releases



To be mounted without the need of any screw

Q: Open/closed auxiliary contact

SY: Trip position auxiliary contacts

S51: Trip position due to trip unit intervention

Service releases

3 pole circuit-breaker

Shunt opening release (SOR) opens the circuit-breaker by means of a non-permanent electrical control.

Undervoltage release (UVR). Opens the circuit-breaker when the release is subjected to either a power failure or voltage drop.

Motor operators

Device that operates the circuit-breaker in the remote mode, by means of electric controls with thanks to the new design, power consumption is now reduced.



Stored energy motor operator
MOE, for XT2 and XT4



Direct action motor operator,
MOD, for XT1 and XT3

Accessories for electronic Trip Units

1SDA068659R1	EKIP DISPLAY x LSI-LSIG-M/LRIU XT2-XT4
1SDA068660R1	EKIP LED METER x LSI-LSIG-M/LRIU XT2-XT4
1SDA068661R1	EKIP COM x LSI-LSIG-M/LRIU XT2-XT4 F/P
1SDA066988R1	Ekip TT XT2-XT4
1SDA066989R1	Ekip T&P XT2-XT4
1SDA069142R1	EXT NEUTRAL CT 63A XT2
1SDA069143R1	EXT NEUTRAL CT100A XT2
1SDA069144R1	EXT NEUTRAL CT160A XT2
1SDA066978R1	EXT NEUTRAL CT160A XT4
1SDA066979R1	EXT NEUTRAL CT250A XT4

Electrical accessories

SOR Shunt trip releases

1SDA066314R1	SOR XT1..XT4 24-30 Vac/dc
1SDA066317R1	SOR XT1..XT4 220...240 Vac-220...250 Vdc

UVR Undervoltage releases

1SDA066389R1	UVR XT1..XT4 24-30 Vac/dc
1SDA066392R1	UVR XT1..XT4 220-240Vac-220-250Vdc

AUX Auxiliary contacts

1SDA066422R1	AUX 250 V XT1..XT4
1SDA066424R1	AUX-SA 250 V XT2-XT4

Motor operators

1SDA066457R1	MOD XT1-XT3 24V dc
1SDA066460R1	MOD XT1-XT3 220...250 V ac/dc
1SDA066463R1	MOE XT2-XT4 24 V dc
1SDA066466R1	MOE XT2-XT4 220...250 V ac/dc

Mechanical accessories

Rotary handles

Operating device that allows the circuit-breaker to be operated by means of a rotary handle direct (RHD) and panel mounted (RHE) rotary handle are available.



Direct rotary handle



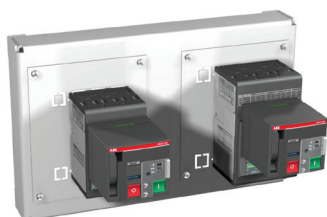
Panel mounted rotary handle

Connection terminals

Tmax XT range of connection terminals is now more complete and consistent through the whole range. Rear terminals, extended front terminals, extended spread terminals and copper cable terminals are available for all the frame sizes. Separating partitions and insulating terminal covers can be selected for Tmax XT circuit-breakers.



Mechanical interlock



Designed for installation on the rear of two circuit-breakers, mechanical interlock prevents two circuit-breakers from being closed simultaneously.

Tmax XT circuit-breakers and switch-disconnectors can be interlocked two-by-two (IO-OI-OO) by means of a frame and special plates, no matter if the breaker is in 3pole or 4pole version.

Rear interlock is available also on 160A frame circuit-breakers, so that use of ATS022 (Automatic Transfer Switch Unit) is no more limited to big frame size circuit-breakers.

Keylocks and padlocks

Padlocks or key locks that prevent the circuit-breaker from being closed and/or opened can be fitted:

- Directly on the front of the circuit-breaker.
- On the rotary handle operating mechanism.
- On the front for lever operating mechanism.
- On the motor.



ATS022

The ATS022 (Automatic Transfer Switch) is the network-generator transfer unit used in installations.



Terminal connections**Copper cable terminals**

1SDA066905R1	KIT FC Cu XT1 3pcs
1SDA066909R1	KIT FC Cu XT2 3pcs
1SDA066913R1	KIT FC Cu XT3 3pcs
1SDA066917R1	KIT FC Cu XT4 3pcs

Extended Front terminals

1SDA066865R1	KIT EF XT1 3pcs
1SDA066869R1	KIT EF XT2 3pcs
1SDA066873R1	KIT EF XT3 3pcs
1SDA066877R1	KIT EF XT4 3pcs

Extended Spread terminals

1SDA066889R1	KIT ES XT1 3pcs
1SDA066893R1	KIT ES XT2 3pcs
1SDA066897R1	KIT ES XT3 3pcs
1SDA066901R1	KIT ES XT4 3pcs

Rear terminals

1SDA066937R1	KIT R XT1 3pcs
1SDA066941R1	KIT R XT2 3pcs
1SDA066945R1	KIT R XT3 3pcs
1SDA066949R1	KIT R XT4 3pcs

High terminal covers

1SDA06664R1	HTC XT1 3p TERMINAL COVERS HIGH 2pcs
1SDA06666R1	HTC XT2 3p TERMINAL COVERS HIGH 2pcs
1SDA06668R1	HTC XT3 3p TERMINAL COVERS HIGH 2pcs
1SDA066670R1	HTC XT4 3p TERMINAL COVERS HIGH 2pcs

Low terminal covers

1SDA066655R1	LTC XT1 3p TERMINAL COVERS LOW 2pcs
1SDA066657R1	LTC XT2 3p TERMINAL COVERS LOW 2pcs
1SDA066660R1	LTC XT3 3p TERMINAL COVERS LOW 2pcs
1SDA066662R1	LTC XT4 3p TERMINAL COVERS LOW 2pcs

Low phase barriers

1SDA066676R1	PB 100mm 4pcs XT1-XT3 3p
1SDA066675R1	PB 100mm 4pcs XT2-XT4 3p

High phase barriers

1SDA066678R1	PB 200mm 4pcs XT1-XT3 3p
1SDA066677R1	PB 200mm 4pcs XT2-XT4 3p

Mechanical accessories**Rotary handles**

1SDA066475R1	RHD XT1-XT3 F/P STANDARD DIRECT
1SDA069053R1	RHD XT2-XT4 F/P STANDARD DIRECT
1SDA066479R1	RHE XT1-XT3 F/P STANDARD RETURNED
1SDA069055R1	RHE XT2-XT4 F/P STANDARD RETURNED

Key locks on circuit breaker

1SDA066593R1	KLC XT1 KEY LOCK RONIS SEV.OP. X C.BREA.
1SDA066594R1	KLC XT1 KEY LOCK RONIS EQ.FEL.A OP.xC.BR
1SDA066599R1	KLC XT2-XT4 KEY LOCK RONIS SE.OP.xC.BRE.
1SDA066600R1	KLC XT2-XT4 KEY LOCK RONIS EQ.FE.A OP.xB
1SDA066605R1	KLC XT3 KEY LOCK RONIS SEV.OP. X C.BREA.
1SDA066606R1	KLC XT3 KEY LOCK RONIS EQ.FEL.A OP.xC.BR

Key locks on rotary handle

1SDA066617R1	RHL XT1..XT4 KEY LOCK RONIS DIFF. KEY RH
1SDA066622R1	RHL XT1..XT4 KEY LOCK RONIS DIFF. KEY OP/CL

Padlock devices

1SDA066588R1	PLL XT1-XT3 PADLOCKS DEVICE REMOV
1SDA066591R1	PLL XT1-XT3 PADLOCKS DEVICE OP/CL
1SDA066592R1	PLL XT2-XT4 PADLOCKS DEVICE OP/CL

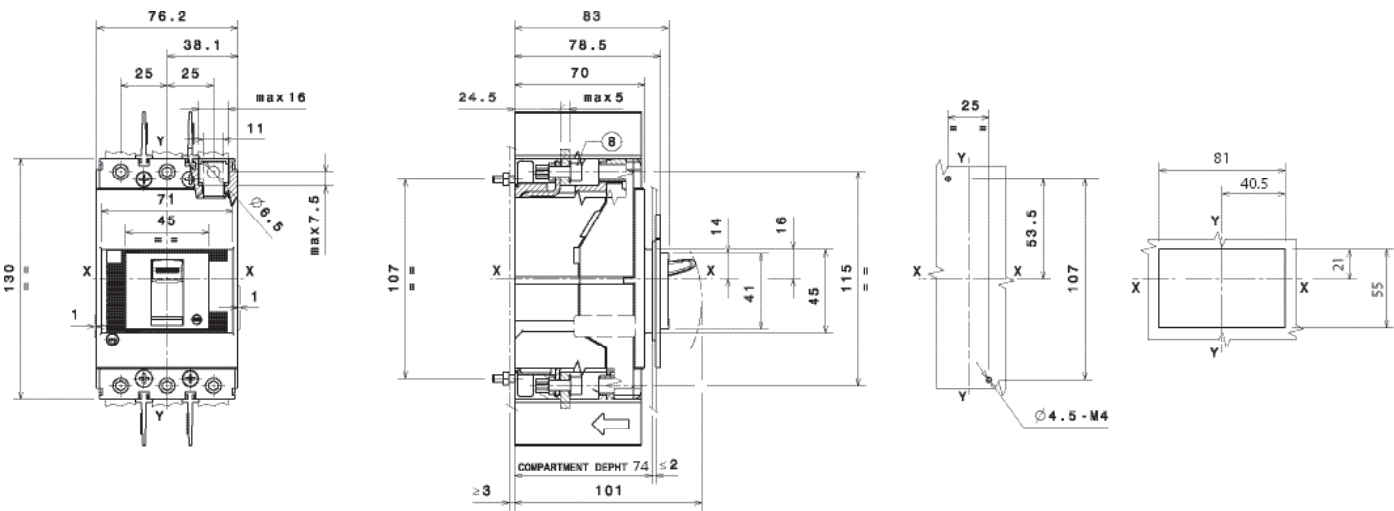
Automatic Transfer Switch

1SDA065524R1	ATS022 AUTO TRANSFER SWITCH RELAY
1SDAA99203A1	Loom kit
1SDAA99303A1	BTSXT1N160T33H(160) In=160, Icu=36kA
1SDAA99333A1	BTSXT1N160T34H(125) In=160, Icu=36kA
1SDAA99309A1	BTSXT1H160T33H(160) In=160, Icu=70kA
1SDAA99339A1	BTSXT1H160T34H(160) In=160, Icu=70kA
1SDAA99503A1	BTSXT3N250T33H(250) In=250, Icu=36kA
1SDAA99532A1	BTSXT3N250T34H(200) In=200, Icu=36kA
1SDAA99309A1	BTSXT1H160T33H(160) In=160, Icu=70kA
1SDAA99339A1	BTSXT1H160T34H(160) In=160, Icu=70kA
1SDAA99603A1	BTSXT4H250T33H(250) In=250, Icu=70kA
1SDAA99633A1	BTSXT4H250T34H(250) In=250, Icu=70kA

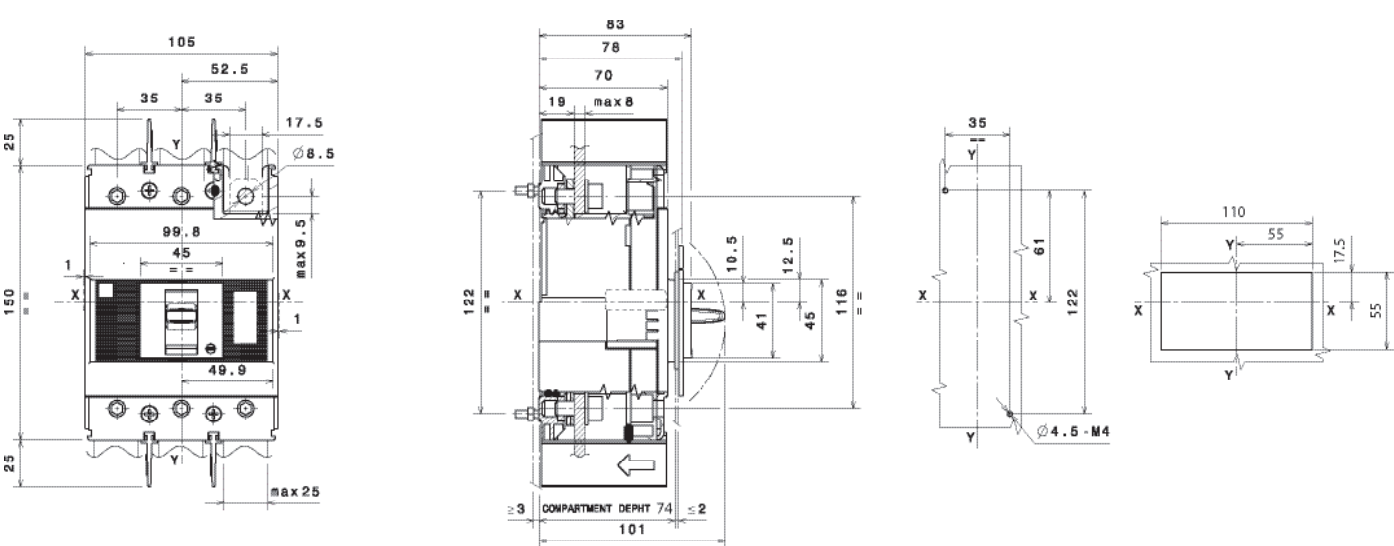
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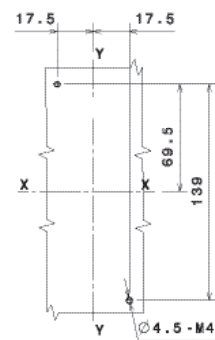
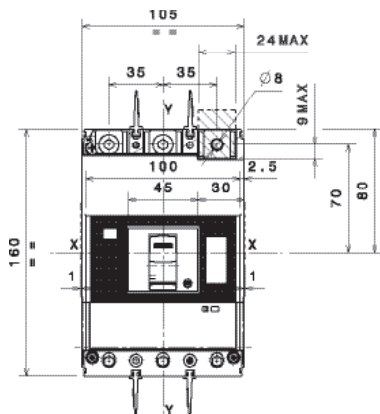
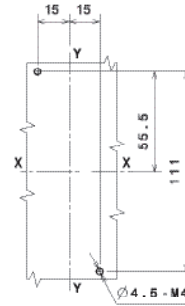
Dimensional drawings

XT1



XT3





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Really eXTraordinary attention to environment.



The ABB Quality System conforms to the following standards:

- ISO 9001 international standard
- EN ISO 9001 (equivalent) European standard
- UNI EN ISO 9001 (equivalent) Italian standards
- IRIS international railway industry standard

The ABB Quality System attained its first certification with the RINA certification body in 1990.

The commitment to environmental protection becomes concrete through:

- Selection of materials, processes and packaging which optimise the true environmental impact of the product.
- Use of recyclable materials.
- Respect of the RoHS directive

ISO 14001, 18001 and SA8000 recognitions together with ISO 9001 made it possible to obtain RINA BEST FOR CERTIFICATIONS.

Tmax XT

eXTraordinary commitment to obtaining all the most important certifications.



Thanks to its quality and reliability Tmax XT has the approvals for the most important registers.



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