

# Emax power circuit-breakers

## Emax X1

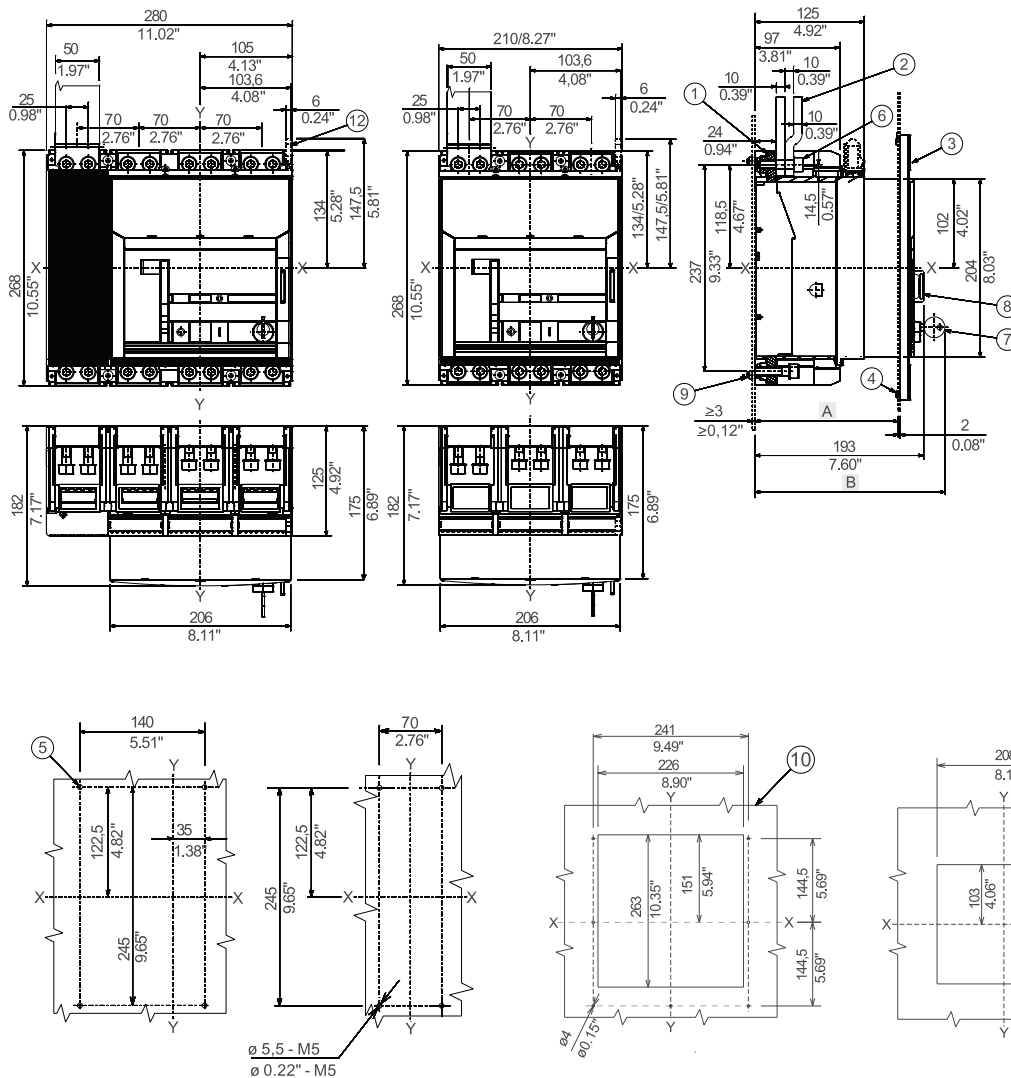
### Common data

UL 1066	
Rated voltage	600 V AC
Rated maximum voltage	635 V AC
Test voltage (1 min. 50/60 Hz)	2.2 kV
Frequency	50 - 60 Hz
Number of poles	3 - 4
Version	Fixed (F) - Drawout (W)



Type of circuit-breaker			Emax X1
Level of performance			N-A
Frame size	[A]		800
	[A]		—
	[A]		—
	[A]		—
	[A]		—
	[A]		—
Capacity of neutral pole for 4 pole circuit-breakers	[% I <sub>n</sub> ]		100
Rated short circuit current	240 V	[kA]	50
	480 V	[kA]	50
	600 V	[kA]	35
Rated short time current (1s)		[kA]	42
<b>Trip units</b>			
Electronic adjustable (dip switch )	PR331		•
Electronic adjustable (keypad + LCD display)	PR332		•
Electronic adjustable (keypad + LCD display)	PR333		•
<b>Trip times</b>			
Make time (max)	[ms]		80
Break time (I < ST current) (max)	[ms]		70
Break time (I > ST current) (max)	[ms]		30
<b>Mechanical and electrical life with regular ordinary maintenance</b>			
Mechanical life	[No. Operations x 1000]		12.5
Operation frequency	[Operations / hour]		60
Electrical life	[No. Operations x 1000]		6
Operation frequency	[Operations / hour]		30
<b>Weights (circuit breaker complete with trip unit and CS. Excluding accessories)</b>			
Fixed (3p/4p)	[kg]		11/14
	[lbs]		24.25/30.86
Draw out (3p/4p)	[kg]		32/42.6
	[lbs]		70.55/93.92

Overall dimensions X1 (FIXED with front terminals)



- 1 Front terminals
- 2 Busbars
- 3 Flange for compartment door
- 4 Flange fixing screws
- 5 Drilling template for fixing onto support sheet
- 6 Tightening torque 18 Nm
- 7 Key lock (optional)
- 8 Padlock (optional)
- 9 Tightening torque 21 Nm
- 10 Sheet drilling for compartment door with flange
- 11 Sheet drilling for compartment door without flange
- 12 Terminal for auxiliary contacts

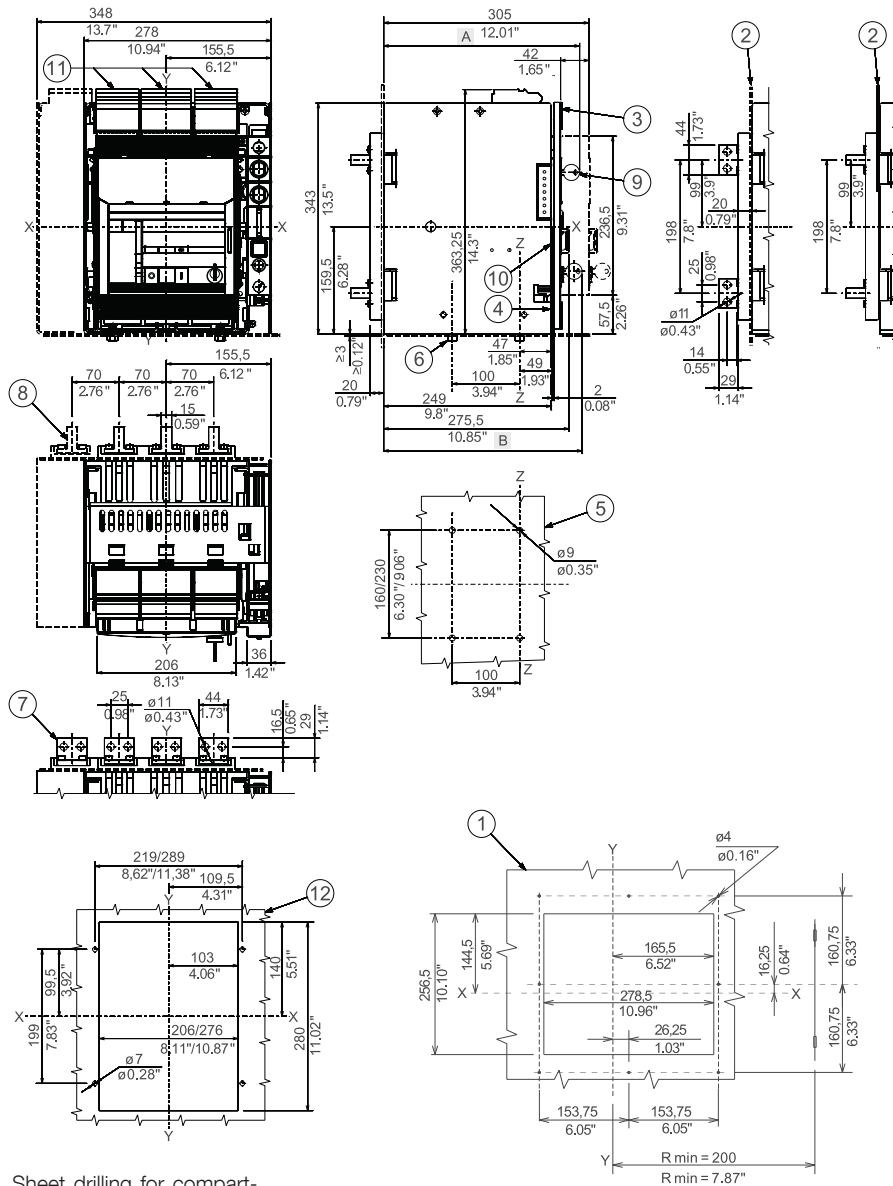
Dimension		With flange	Without flange
A	mm	125...164	170
	in	4.92 ... 6.46	6.69

Dimension		Standard	Ronis	Profalux	Kirk	Castell
B	mm	208	216	224	245	243
	in	8.19	8.50	8.82	9.65	9.57

# Emax power circuit-breakers

## Dimensions X1 series

Overall dimensions X1 (DRAW OUT with rear terminals)



- 1 Sheet drilling for compartment door with flange
- 2 Rear segregation for rear terminals VR-HR
- 3 Flange for compartment door
- 4 Flange fixing screws
- 5 Drilling template for fixing onto support sheet
- 6 Tightening torque 21 Nm
- 7 Rear horizontal terminals
- 8 Rear vertical terminals
- 9 Keylock (optional)
- 10 Padlock (optional)
- 11 Auxiliary contact terminal
- 12 Rear segregation for rear terminals

Dimension		Standard	Ronis	Profalux	Kirk	Castell
A	mm	307	311	319	318	348
	in	12.09	12.24	12.56	12.52	13.70
B	mm	290	298	306	313	311
	in	11.42	11.73	12.05	12.32	12.24

# Contact us

## Canada

**ABB Inc.**

**Low Voltage Products**

**2117 – 32nd Avenue**

**Lachine, QC, CANADA H8T 3J1**

**Tel.: 514-420-3100**

**Fax: 514-420-3137**

**Toll Free: 1-800-567-0283**

**[www.abb.ca](http://www.abb.ca)**

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