

# Emax power circuit-breakers

## Emax E4.2



### 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 E4.2					
		S-A	H-A	V-A	L-A	X-A <sup>(1)</sup>	
Level of performance							
Frame size	[A]	2500	2500	800	800	1600	
	[A]	3200	3200	1600	1600	2000	
	[A]	•	•	2000	2000	2500	
	[A]	•	•	2500	2500	3200	
	[A]	•	•	3200	3200	•	
Capacity of neutral pole for 4 pole circuit-breakers	[% I <sub>n</sub> ]	100	100	100	100	100	
Rated short circuit current at max. voltage	254 V	[kA]	65	85	100	125	200
	508 V	[kA]	65	85	100	125	200
	635 V	[kA]	65	85	100	100	200
Rated short time current (1s)	[kA]	65	85	100	100	50	
Trip units							
Ekip Dip		•	•	•	•	•	
Ekip Touch		•	•	•	•	•	
Ekip HI-Touch		•	•	•	•	•	
Ekip G Touch		•	•	•	•	•	
Ekip G HI-Touch		•	•	•	•	•	
Trip times							
Break time with fault current < rated short time current	[ms]	40	40	40	40	40	
Break time with fault current > rated short time current	[ms]	25	25	25	25	25	
Mechanical and electrical life with regular ordinary maintenance							
Mechanical life	[No. Cycles x 1000]			20			
Operation frequency	[Cycles / hour]			60			
Electrical life (at max. voltage)	[No. Cycles x 1000]			10 (Less than 2500A) ; 8 (2500A) ; 7 (3200A)			
Operation frequency	[Cycles / hour]			20			
Weights (circuit breaker complete with trip unit, Horiz. rear terminals, CS. Excluding accessories)							
Fixed (3p/4p)	[kg]			73/92 (up to 2500A) ; 91/116 (3200A)			
	[lbs]			161/203 (up to 2500A) ; 201/256 (3200A)			
Draw out (3p/4p)	[kg]			118/147 (up to 2500A) ; 136/171 (3200A)			
	[lbs]			261/325 (up to 2500A) ; 300/377 (3200A)			

(1) Contact ABB for availability

# 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)

While all care has been taken to ensure that the information contained in this publication is correct, no responsibility can be accepted for any inaccuracy. The Company reserves the right to alter or modify the information contained herein at any time in the light of technical or other developments. Technical specifications are valid under normal operating conditions only. The Company does not accept any responsibility for any misuse of the product and cannot be held liable for indirect or consequential damages.

© Copyright 2015 ABB Inc. All rights reserved.

