Time/current curves Series G LHH breakers

Overview

Series G® LHH circuit breakers incorporate a higher level of instantaneous pickup, thus allowing for higher current levels of selective coordination. Standard molded case circuit breakers typically are furnished with a magnetic pickup set at 10 times (10x) the continuous trip rating. Eaton's new LHH molded case circuit breakers are furnished with a higher level of magnetic pickup equal to 15–26X continuous current.

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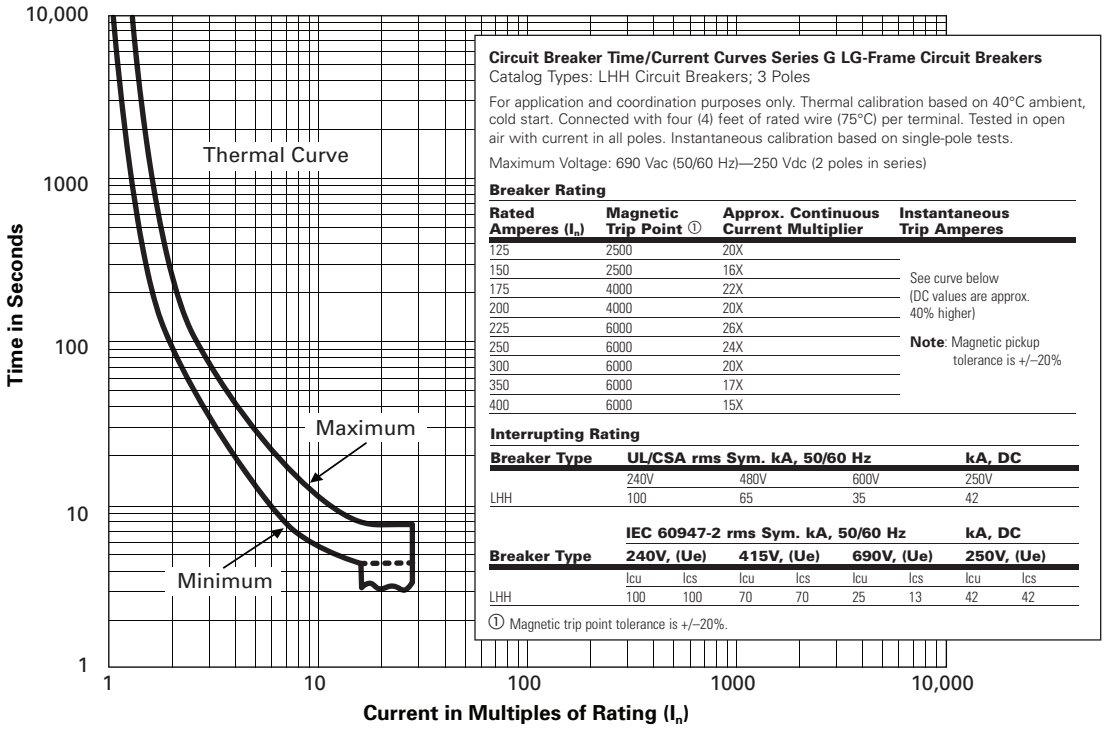

Circuit Breaker Time/Current Curves Series G LG-Frame Circuit Breakers
Catalog Types: LHH Circuit Breakers; 3 Poles

For application and coordination purposes only. Thermal calibration based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (75°C) per terminal. Tested in open air with current in all poles. Instantaneous calibration based on single-pole tests.

Maximum Voltage: 690 Vac (50/60 Hz)—250 Vdc (2 poles in series)

Breaker Rating

Rated Amperes (I_n)	Magnetic Trip Point ①	Approx. Continuous Current Multiplier	Instantaneous Trip Amperes
125	2500	20X	See curve below (DC values are approx. 40% higher)
150	2500	16X	
175	4000	22X	
200	4000	20X	
225	6000	26X	
250	6000	24X	
300	6000	20X	
350	6000	17X	
400	6000	15X	

Note: Magnetic pickup tolerance is +/–20%

Interrupting Rating

Breaker Type	UL/CSA rms Sym. kA, 50/60 Hz			kA, DC
	240V	480V	600V	250V
LHH	100	65	35	42

Breaker Type	IEC 60947-2 rms Sym. kA, 50/60 Hz						kA, DC	
	240V, (Ue)		415V, (Ue)		690V, (Ue)		250V, (Ue)	
	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
LHH	100	100	70	70	25	13	42	42

① Magnetic trip point tolerance is +/–20%.

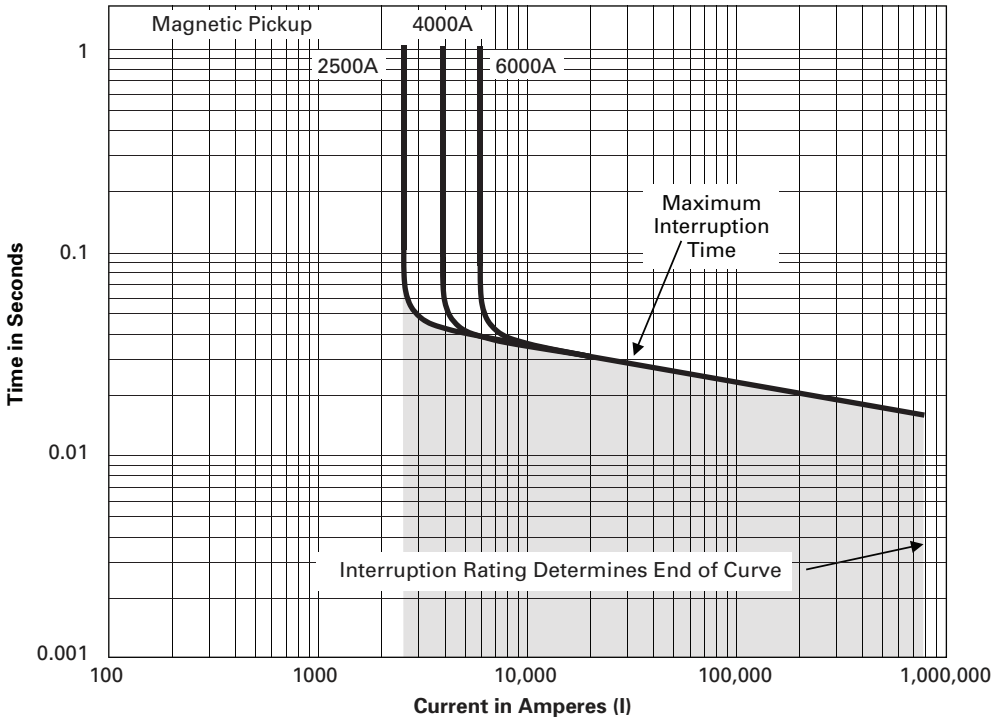

Figure 1. Time/Current Curve for LHH Circuit Breaker

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