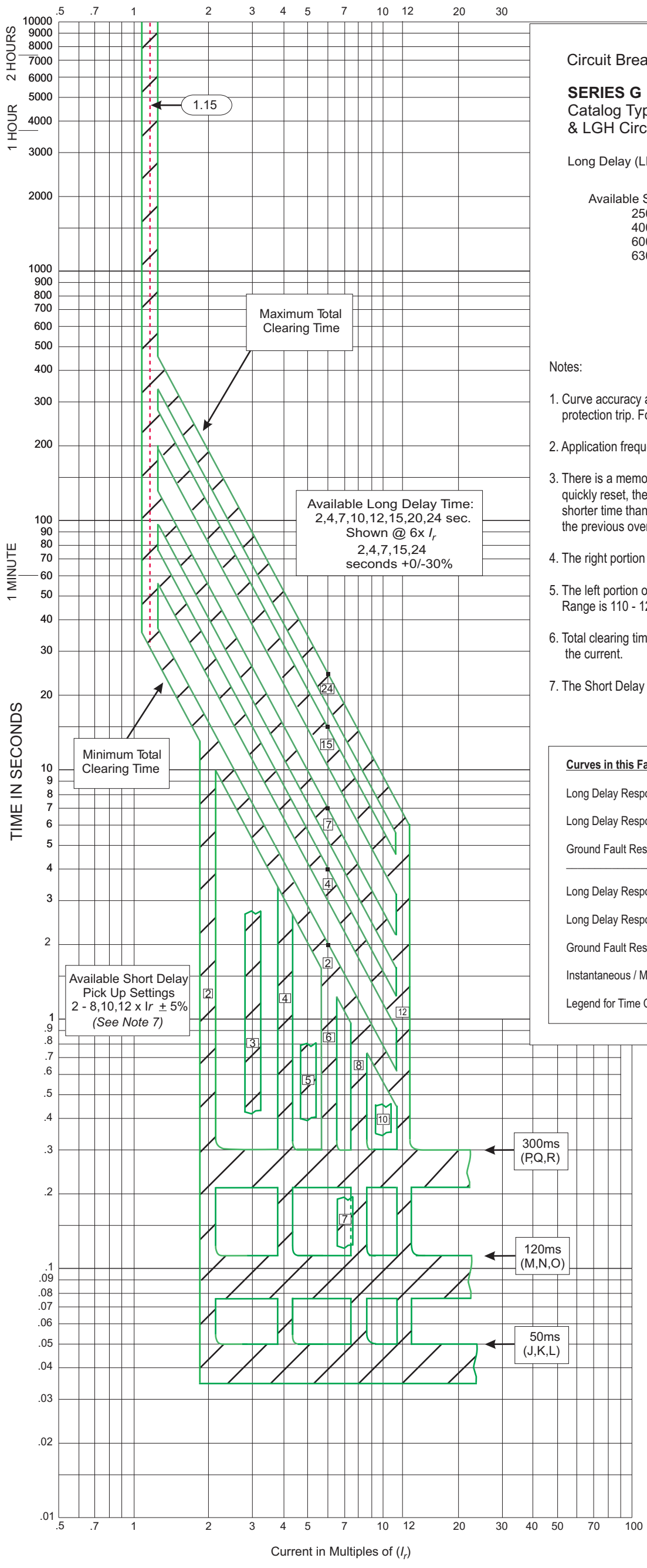
Long Delay Response & Short Delay with Flat Response Curve & Instantaneous/Maintenance Mode Setting



Circuit Breaker Time/Current Curves (Phase Current)

SERIES G L - Frame Circuit Breakers
Catalog Types: LGC, LGU, LGX, GLE, GLS, GLH, GLC, GLU, GLX, LGE, LGS & LGH Circuit Breakers, 3 & 4 Poles

Long Delay (LD) & Short Delay (SD) with Flat Response

Available Sensors (I_n):
250A
400A
600A
630A

Ir \ In	250A	400A	600A	630A
A	100A	160A	250A	250A
B	125A	200A	300A	300A
C	150A	225A	315A	315A
D	160A	250A	350A	350A
E	175A	300A	400A	400A
F	200A	315A	450A	500A
G	225A	350A	500A	600A
H	250A	400A	600A	630A

Notes:

1. Curve accuracy applies from -20° C to + 55 °C ambient. Temperatures above + 85 °C cause an over-temperature protection trip. For possible continuous ampere derating for ambient above 40 °C, refer to Cutler-Hammer.
2. Application frequency is 50/60 Hz.
3. There is a memory effect that can act to shorten the Long Delay. If the breaker trips on a Long Delay overload and is quickly reset, the memory cap will still have charge and a subsequent overload will cause the breaker to trip in a shorter time than normal. The amount of time delay reduction is inverse to the amount of time that has elapsed since the previous overload. Approximately five minutes is required between overloads to completely reset memory.
4. The right portion of the curve is determined by the interrupting rating of the circuit breaker.
5. The left portion of the curve is shown as a multiple of the Long Delay Setting. (Long Delay Pick Up = 115% of I_r). Range is 110 - 120%.
6. Total clearing times shown include the response times of the trip unit, the breaker opening, and the interruption of the current.
7. The Short Delay Pick Up has nine settings/positions, 2-8, 10 and 12.

Curves in this Family:

Long Delay Response and Short Delay with Flat Response - TC01207004E

Long Delay Response and Short Delay with I^2t Response - TC01207005E

Ground Fault Response Curve - TC01207006E

Long Delay Response and Short Delay with Flat Response and Instantaneous / Maintenance Mode Setting - TC01207011E

Long Delay Response and Short Delay with I^2T Response and Instantaneous / Maintenance Mode Setting - TC01207012E

Ground Fault Response Curve and Instantaneous / Maintenance Mode Setting - TC01207013E

Instantaneous / Maintenance Mode Setting - TC01207014E

Legend for Time Current Curves for Series G L- Frame Circuit Breakers - 5722B41

Adjustable Flat Trip Style