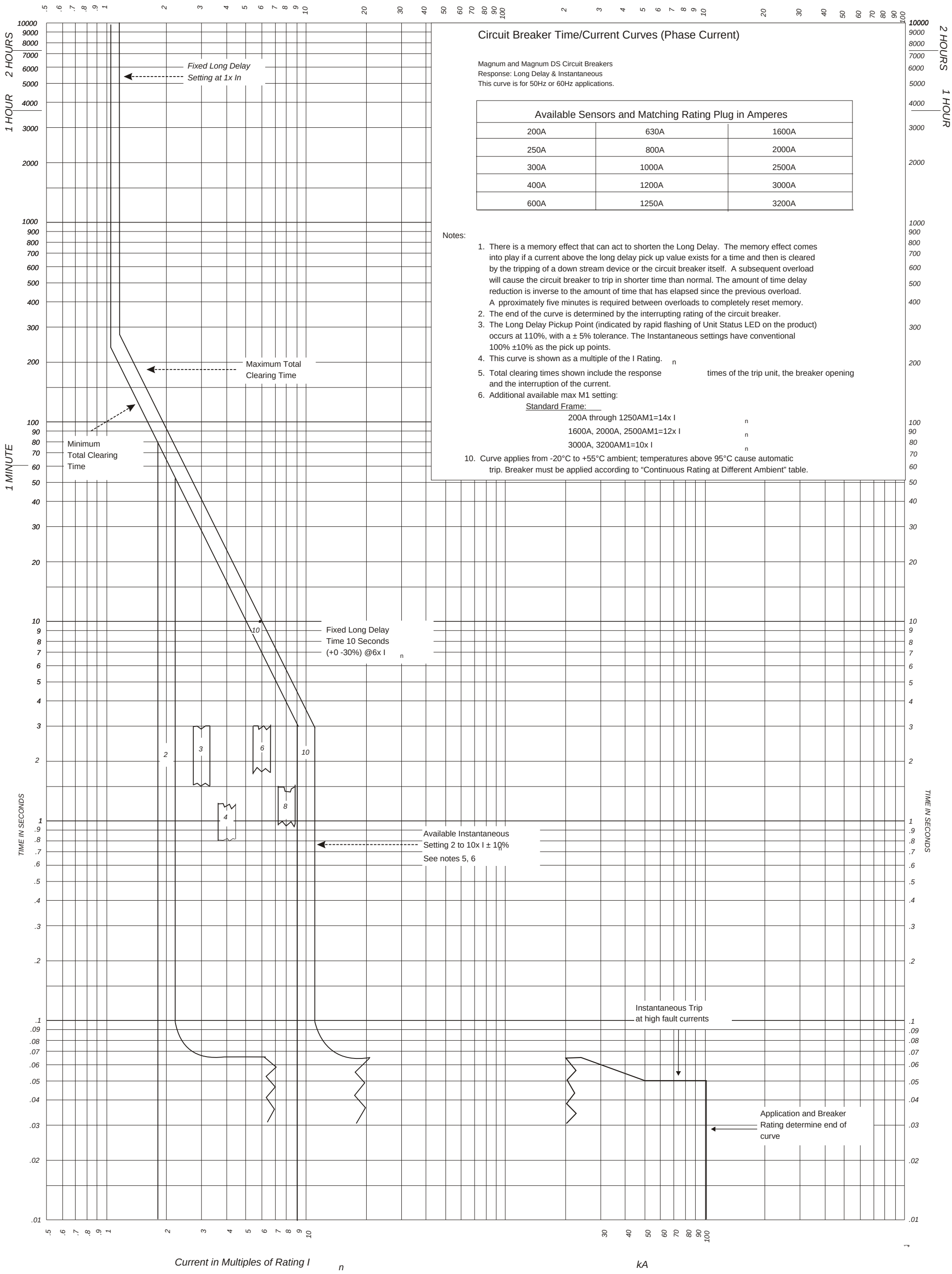
Cutler-Hammer

Digitrip 220 - Long Delay & Instantaneous Curves



Circuit Breaker Time/Current Curves (Phase Current)

Magnum and Magnum DS Circuit Breakers
Response: Long Delay & Instantaneous
This curve is for 50Hz or 60Hz applications.

Available Sensors and Matching Rating Plug in Amperes		
200A	630A	1600A
250A	800A	2000A
300A	1000A	2500A
400A	1200A	3000A
600A	1250A	3200A

Notes:

1. There is a memory effect that can act to shorten the Long Delay. The memory effect comes into play if a current above the long delay pick up value exists for a time and then is cleared by the tripping of a down stream device or the circuit breaker itself. A subsequent overload will cause the circuit breaker to trip in shorter time than normal. The amount of time delay reduction is inverse to the amount of time that has elapsed since the previous overload. A pproximately five minutes is required between overloads to completely reset memory.
2. The end of the curve is determined by the interrupting rating of the circuit breaker.
3. The Long Delay Pickup Point (indicated by rapid flashing of Unit Status LED on the product) occurs at 110%, with a ± 5% tolerance. The Instantaneous settings have conventional 100% ±10% as the pick up points.
4. This curve is shown as a multiple of the I Rating. n
5. Total clearing times shown include the response times of the trip unit, the breaker opening and the interruption of the current.
6. Additional available max M1 setting:

   Standard Frame:

   200A through 1250AM1=14x I n

   1600A, 2000A, 2500AM1=12x I n

   3000A, 3200AM1=10x I n

10. Curve applies from -20°C to +55°C ambient; temperatures above 95°C cause automatic trip. Breaker must be applied according to “Continuous Rating at Different Ambient” table.

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