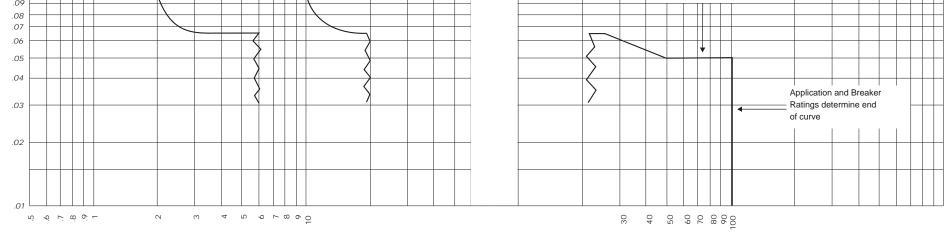


Circuit Breaker Time/Current Curves (Phase Current)		
Magnum and Magnum DS Circuit Breakers		
Response: Instantaneous Trip This curve is for 50Hz or 60Hz applications.		
lotes: . There is a memory effect that can act to shorten the Long Delay. The memory		
effect comes into play if a current above the Long Delay Pickup value exists for a		
ime and then is cleared by the tripping of a downstream 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. Approximately five		
minutes is required between overloads to completely reset memory.		
. The end of the curve is determined by the interrupting rating of the circuit breaker.		
. This curve is shown as a multiple of the Rating Plug (I).		
. The Instantaneous settings have conventional 100% ± 10% as their pick up points.		
. Total clearing times shown include the response times of the trip unit, the breaker		
opening and the interruption of the current.		
Additional settings of OFF and M1 are also availa ble with		
Standard Frame: 200A through 1250A M1=14x I		
1600A 2000A 2500A M1-12v I		
3000A 3200A M1-10v I		
Double Wide Frame:		
2000A, 2500A M1=14x I		
3200A, 4000A, 5000A M1=12x I n		
6300A M1=10x I n		
. For breakers rated 3200A and less having a 100kA rms interruption rating, an		
additional High Instantaneous Trip Module is provided in the breaker set to trip	at	
a 170kA ± 10% instantaneous peak current level. This protection is functional even when the Instantaneous is set to the OFF position.		
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Instantaneous Trip at high fault currents		



Current in Multiples of Rating (I)  $_{\rm n}$ 

## **Cutler-Hammer**

Dwg. No: 70C1043 November 2, 1999 kА