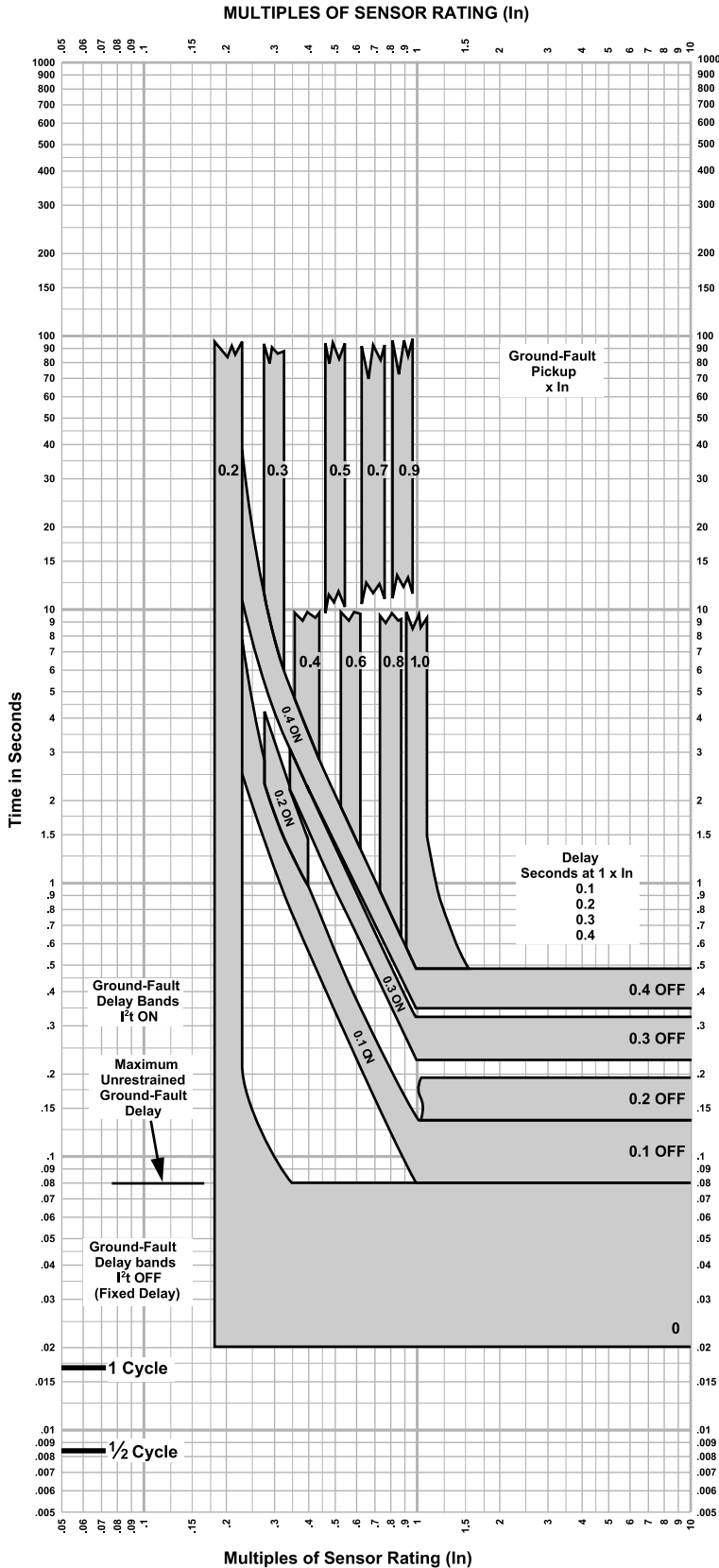


Micrologic X Control Unit Tripping Curves

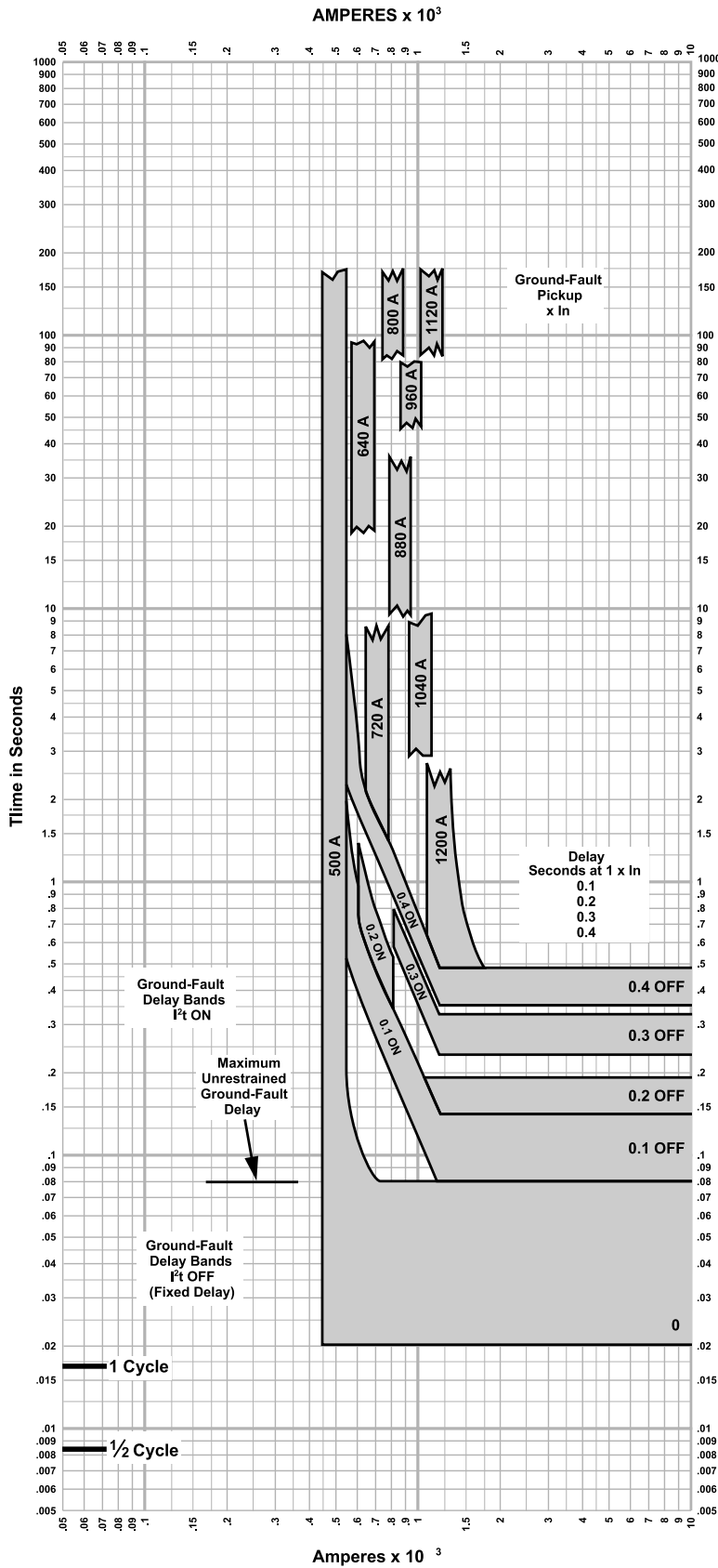


Micrologic 6.0 X Control Unit With Adjustable Ground-Fault Pickup and Delay

Ground-fault I²t OFF and ON
400 A < I_n ≤ 1200 A

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to +70°C
(-13°F to +158°F) ambient temperature.

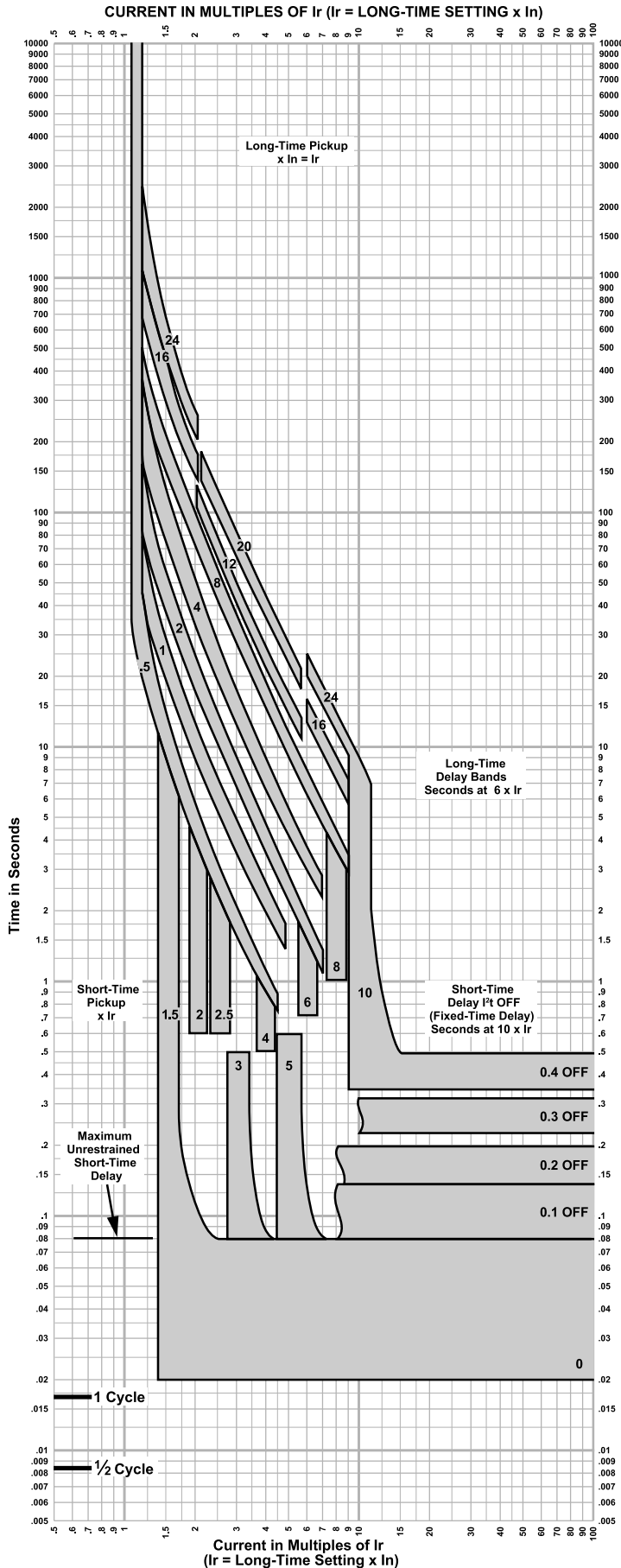


**Micrologic 6.0 X Control Unit
With Adjustable Ground-Fault
Pickup and Delay**

Ground-fault I^2t OFF and ON
 $I_n > 1200$ A

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to $+70^\circ\text{C}$
(-13°F to $+158^\circ\text{F}$) ambient temperature.



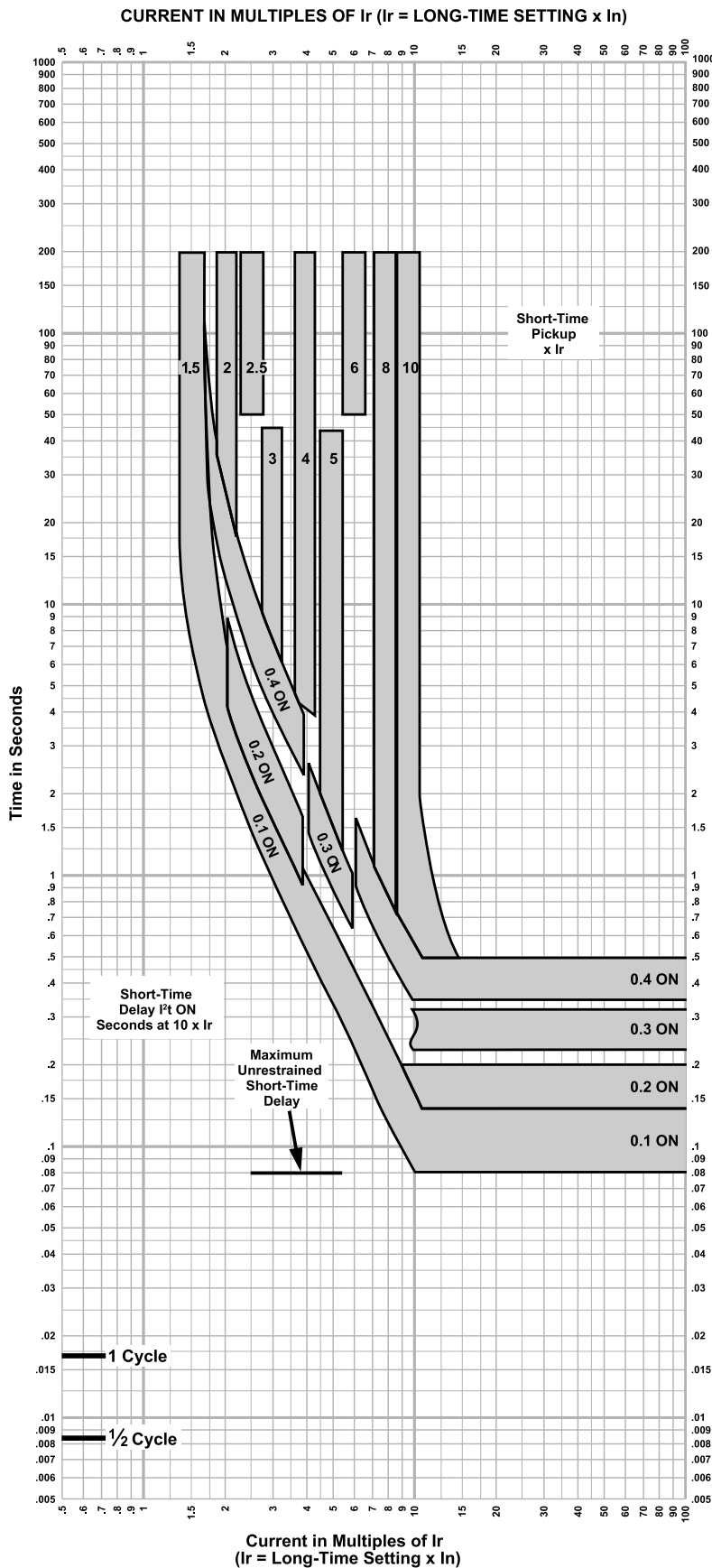
**Micrologic 5.0/6.0 X Control Unit
Long-time Pickup and Delay
Short-time Pickup and I²t OFF Delay**

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to +70°C (-13°F to +158°F) ambient temperature.

Notes:

1. There is a thermal-imaging effect that can act to shorten the long-time delay. The thermal-imaging effect comes into play if a current above the long-time delay pickup value exists for a time 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 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 20 minutes is required between overloads to completely reset thermal-imaging.
2. The end of the curve is determined by the interrupting rating of the circuit breaker.
3. With zone-selective interlocking on, short-time delay utilized and no restraining signal, the maximum unrestrained short-time delay time band applies regardless of the setting.
4. Total clearing times shown include the response times of the trip unit, the circuit breaker opening, and the extinction of the current.
5. For a withstand circuit breaker, instantaneous can be turned OFF.



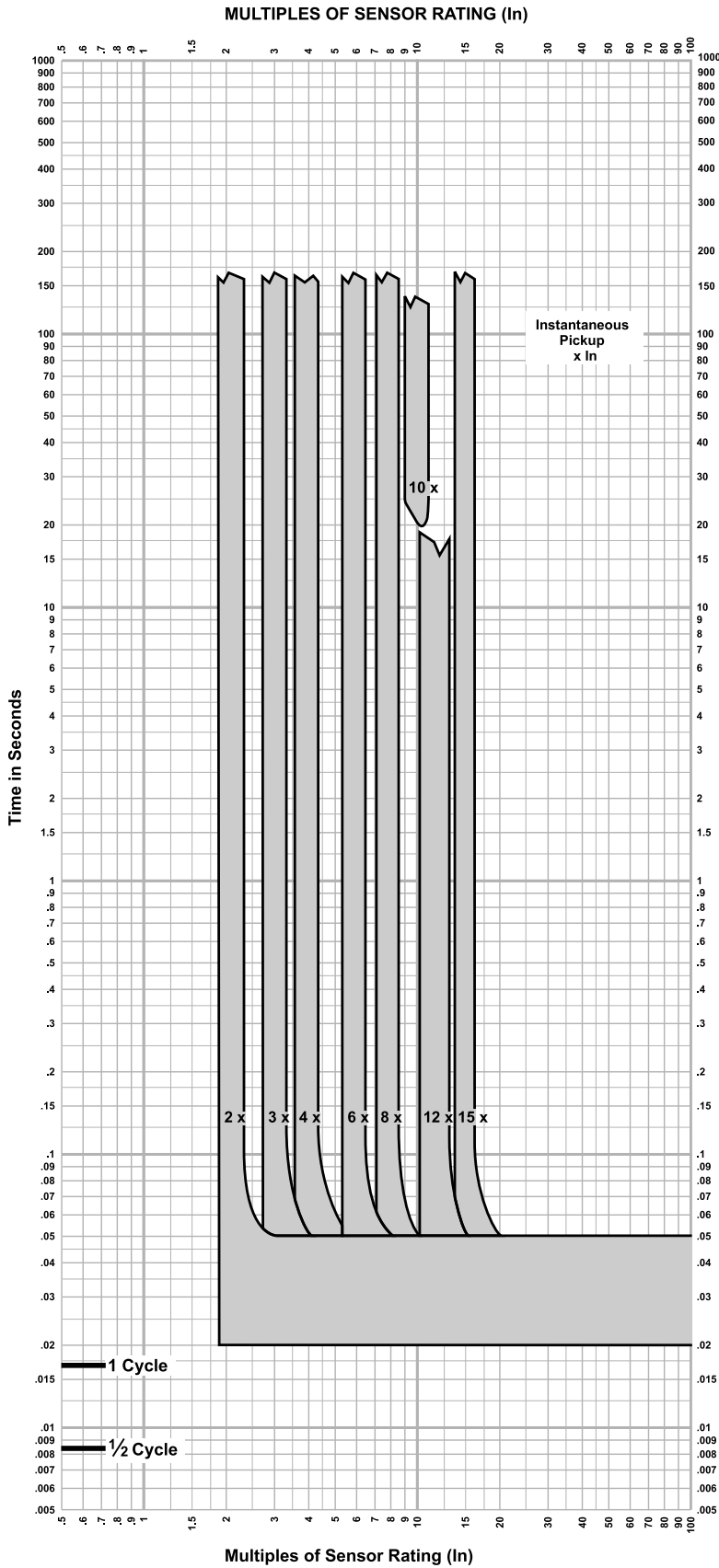
Micrologic 5.0/6.0 X Control Unit Short-time Pickup and I²t ON Delay

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to +70°C (-13°F to +158°F) ambient temperature.

Notes:

1. There is a thermal-imaging effect that can act to shorten the long-time delay. The thermal-imaging effect comes into play if a current above the long-time delay pickup value exists for a time 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 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 20 minutes is required between overloads to completely reset thermal-imaging.
2. The end of the curve is determined by the interrupting rating of the circuit breaker.
3. With zone-selective interlocking on, short-time delay utilized and no restraining signal, the maximum unrestrained short-time delay time band applies regardless of the setting.
4. Total clearing times shown include the response times of the trip unit, the circuit breaker opening, and the extinction of the current.
5. For a withstand circuit breaker, instantaneous can be turned OFF.



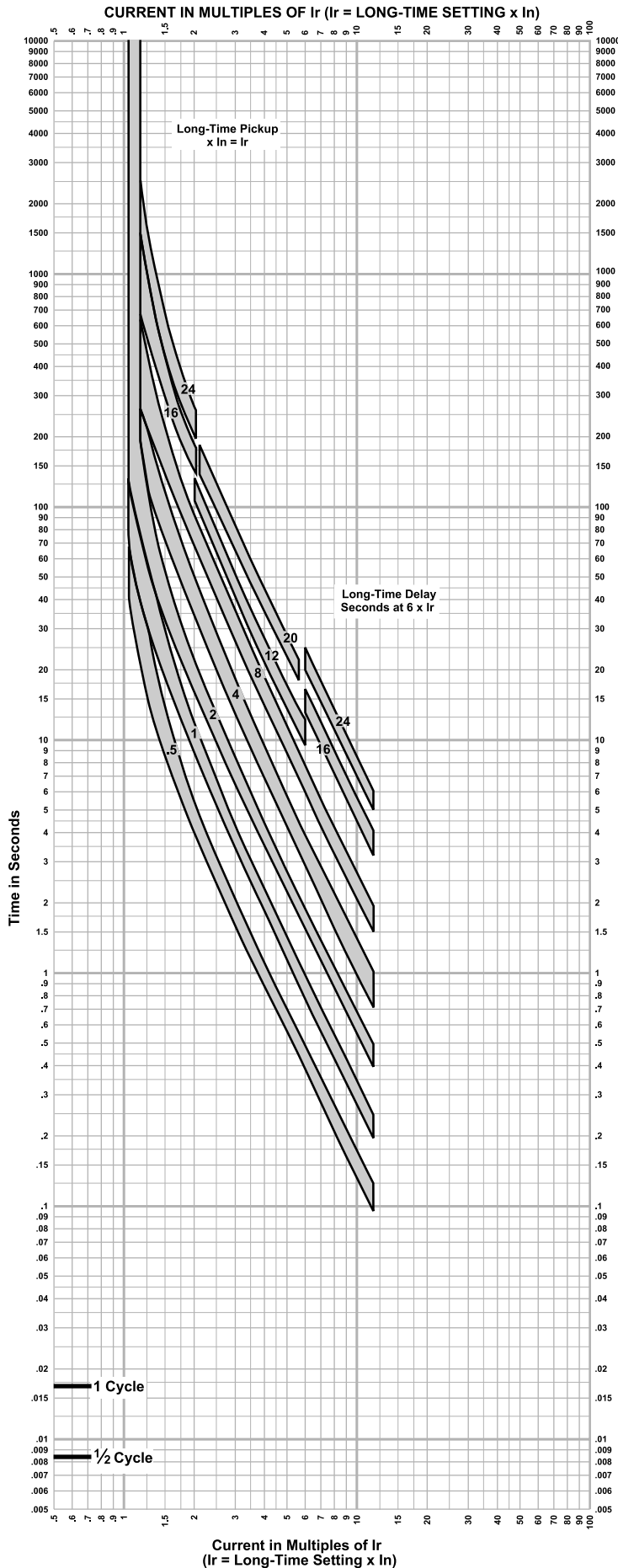
**Micrologic 5.0/6.0 X Control Unit
Instantaneous Pickup
2x–15x and OFF**

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to +70°C (-13°F to +158°F) ambient temperature.

Notes:

1. The end of the curve is determined by the interrupting rating of the circuit breaker.
2. Total clearing times shown include the response times of the trip unit, the circuit breaker opening, and the extinction of the current.
3. The instantaneous region of the trip curve shows maximum total clearing times. Actual clearing times in this region can vary depending on the circuit breaker mechanism design and other factors. The actual clearing time can be considerably faster than indicated. Contact your local Sales Office for additional information.
4. For a withstand circuit breaker, instantaneous can be turned OFF.



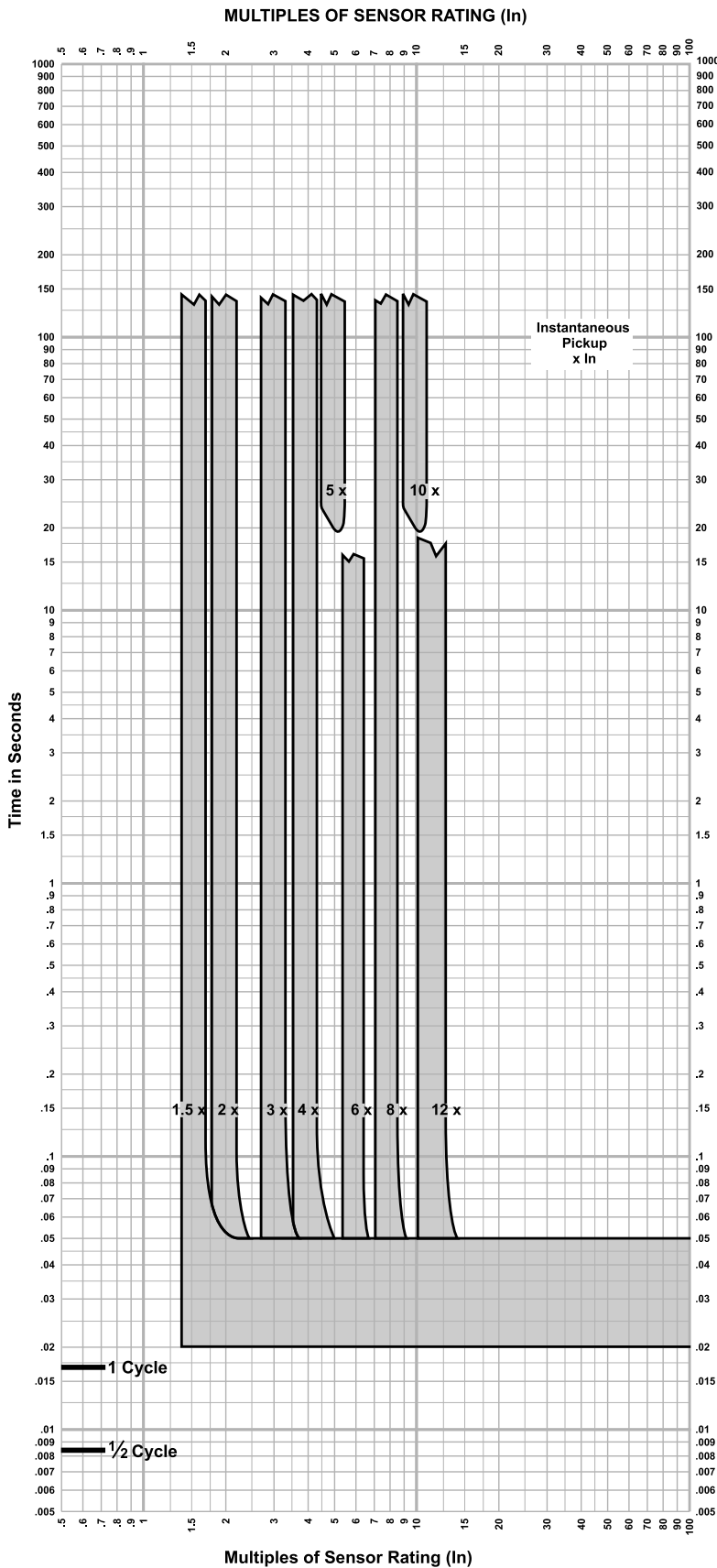
Micrologic 3.0 X Control Unit Long-time Pickup and Delay

The time-current curve information is to be used for application and coordination purposes only.

Curves apply from -25°C to $+70^{\circ}\text{C}$
(-13°F to $+158^{\circ}\text{F}$) ambient temperature.

Notes:

1. There is a thermal-imaging effect that can act to shorten the long-time delay. The thermal-imaging effect comes into play if a current above the long-time delay pickup value exists for a time 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 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 20 minutes is required between overloads to completely reset thermal-imaging.
2. The end of the curve is determined by the instantaneous setting.
3. Total clearing times shown include the response times of the trip unit, the circuit breaker opening, and the extinction of the current.



**Micrologic 3.0 X A Control Unit
Instantaneous Pickup
1.5x-12x**

The time-current curve information is to be used for application and coordination purposes only.

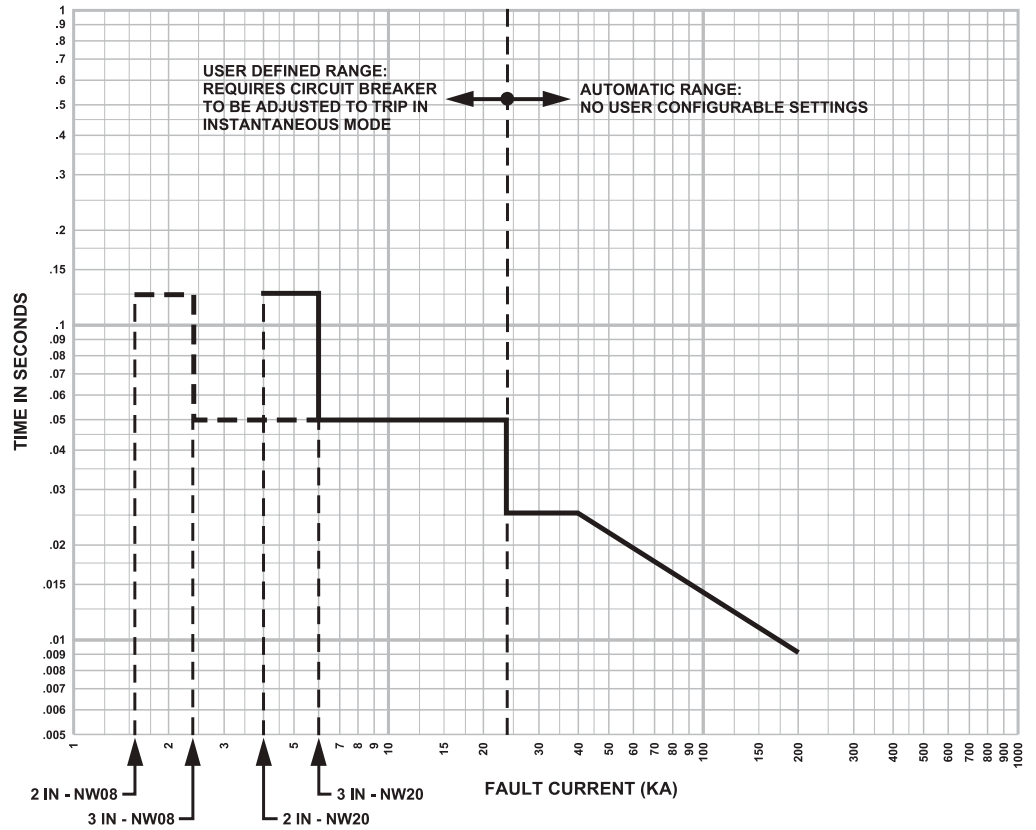
Curves apply from -25°C to +70°C (-13°F to +158°F) ambient temperature.

Instantaneous override values are given on 613-10.

Notes:

1. The end of the curve is determined by the interrupting rating of the circuit breaker.
2. Total clearing times shown include the response times of the trip unit, the circuit breaker opening, and the extinction of the current.
3. The instantaneous region of the trip curve shows maximum total clearing times. Actual clearing times in this region can vary depending on the circuit breaker mechanism design and other factors. The actual clearing time can be considerably faster than indicated. Contact your local Sales Office for additional information.

MASTERPACT® MTZ2 / MTZ3 Low Arc Flash Circuit Breaker
 CHARACTERISTIC TRIP CURVE NO. 613-15
 (L1F AND LF) 800-2000 A, 60 Hz



MASTERPACT® MTZ1 Low Arc Flash Circuit Breaker
CHARACTERISTIC TRIP CURVE NO. 613-16
(L1F AND LF) 800–1200 A, 60 Hz

