



Circuit Breaker Time/Current Curves (Ground Current)
 Magnum and Magnum DS Circuit Breakers
 Response: Ground (Earth) Trip (FLAT & IT)
 This curve is for 50Hz or 60Hz applications.

Notes:

- The end of the curve is determined by the interrupting rating of the circuit breaker.
- For phase current time/current curves, see curves 70C1031 through 70C1040.
- The curve is shown as a multiple of the Rating Plug (I).
- The Ground Fault settings have conventional 100% ± 10% as their pick up points.
- Except as noted, tolerances on current levels are ±10% of values shown in chart.
- The Ground Fault Pickup is limited to 1200A setting for the Digitrip 1150 unit. The Digitrip 1150 unit only has a minimum Earth Pickup setting starting at 0.1 x I.
- With zone interlocking on ground fault utilized and no restraining signal, the minimum time band (FLAT) applies regardless of setting.
- Total clearing times shown include the response time of the trip unit, the breaker opening, and the interruption of the current.
- Ground Slope: FLAT
 Tolerance is +0 / -80 ms except
 0.10s setting band is 0.06 to 0.13
 0.20s setting band is 0.15 to 0.22
- Ground Slope: IT
 IT slope flattens out at 0.625x I for top of band with FLAT time minimum value prevailing for bottom of band.
 Curve Trip Equation: Trip = (GROUND TIME) x 0.39 / I (top)
 Curve Trip Equation: Trip = ((GROUND TIME) x 0.39 / I) * 0.70 (bottom)
 The above equations indicate tolerance is +0 / -30% for all settings except
 0.10s is +30% -25%
 0.20s is +10% -25%