



etc-12 Patent Pending Tripping System
 for
Low Voltage Power Circuit Breakers
PHASE IMBALANCE (ϕI)
TIME-CURRENT CURVE

CURVE NUMBER
001-600-0009 **REVISION** **RELEASE DATE**
-A- **05-04-07**

CURVE APPLIES AT 50 / 60 HERTZ AND AT AMBIENT TEMPERATURES BETWEEN -40 and 65C.

Available Pickups: Current differentials between 15% and 50%, in increments of 5% where differential is calculated as follows:

$$\% \phi I = 100 * (I_{MAX} - I_{MIN}) / I_{MAX}$$

where I_{MAX} = highest phase current and I_{MIN} = lowest phase current

Available Delays: From 1 to 10 seconds, in one second intervals, From 12 to 20 seconds, in 2 second intervals, from 25 to 50 seconds in 5 second intervals, and from 60 to 90 seconds, in 10 second intervals.

NOTES: 1) This feature may be defeated. 2) Phase imbalance is not active when current is below approximately 8 % of the sensor tap value