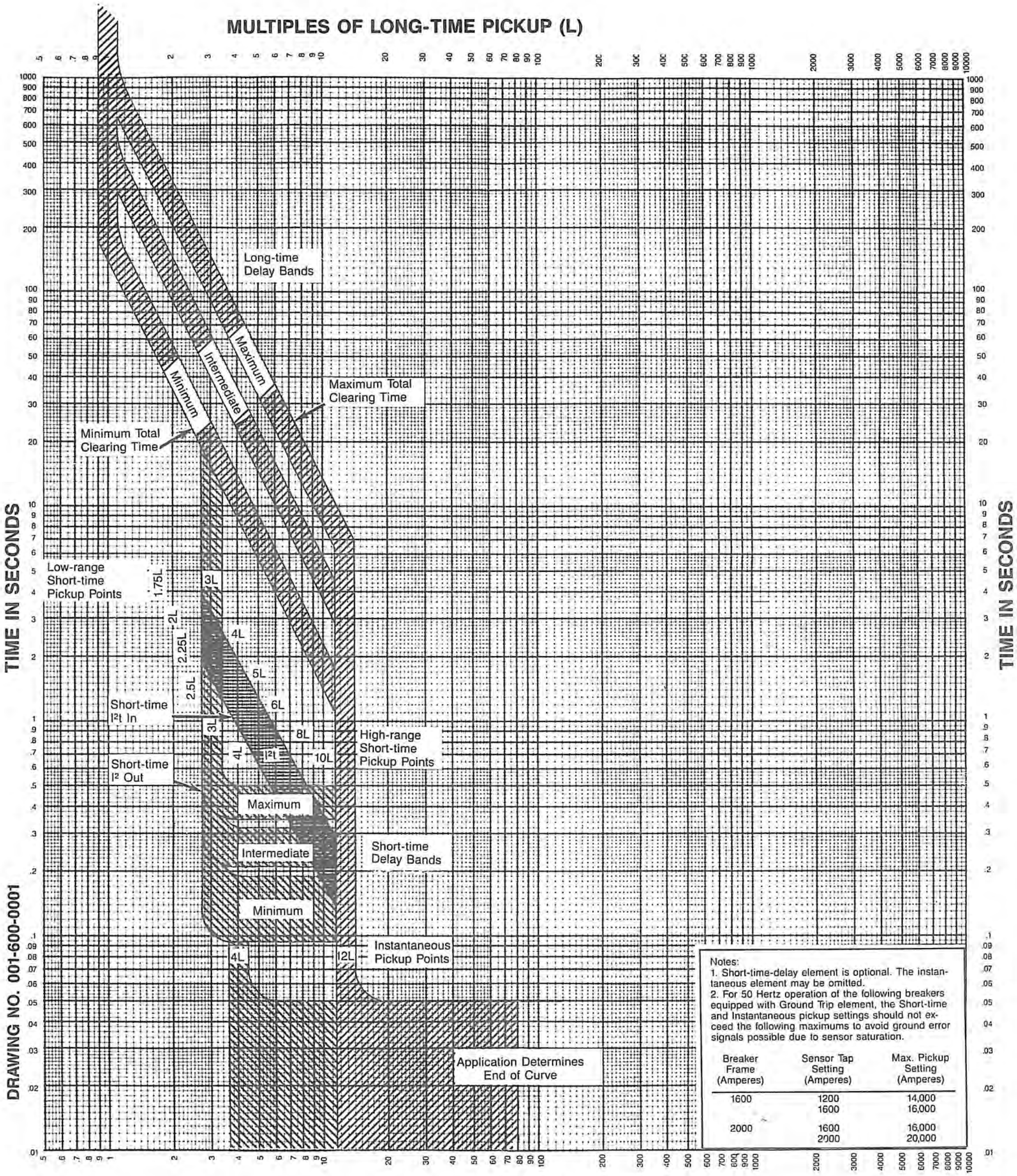

Notes:
1. Short-time-delay element is optional. The instantaneous element may be omitted.
2. For 50 Hertz operation of the following breakers equipped with Ground Trip element, the Short-time and Instantaneous pickup settings should not exceed the following maximums to avoid ground error signals possible due to sensor saturation.

Breaker Frame (Amperes)	Sensor Tap Setting (Amperes)	Max. Pickup Setting (Amperes)
1600	1200	14,000
	1600	16,000
2000	1600	16,000
	2000	20,000

MULTIPLES OF LONG-TIME PICKUP (L)

SATIN AMERICAN CORP.

LOW-VOLTAGE POWER CIRCUIT BREAKERS

etc 11 Solid State Retrofit Tripping System

Long-time-delay, Short-time-delay and Instantaneous Time-current Curves

Curves apply at 50/60 Hertz
From — 20°C to + 65°C Programmer Ambient

DRAWING NO. 001-600-0001

Typical Breaker Frame And Current Transformer Sizes Available*

Breaker Frame Amps	Current Transformer Amps
225	70,100,150,225
600	200,300,400,600
800	300,400,600,800
1600	600,800,1200,1600
2000	800,1200,1600,2000
3000	1200,1600,2000,3000
4000	1600,2000,3000,4000

*Note: Alternate ct's tapped or fixed available as special order.

Programmer Set Points

Pickup

Long-time: .6, .7, .8, .9, 1.0 & 1.1 multiples of current sensor tap setting (X). (Settings higher than 100% of the frame size do not increase the continuous current rating).

Short-time: 1.75, 2, 2.25, 2.5, 3 & 4 or 3, 4, 5, 6, 8 & 10 multiples of Long-time pickup setting (L) for 50 Hz. operation. See note.

Instantaneous: 4, 5, 6, 8, 10 & 12 multiples of Long-time pickup setting (L). For 50 Hz operation. See note.

TIME DELAY BANDS

Long-time and Short-time: Max. Int. & min.

SATIN AMERICAN CORP., ENGINEERING DEPT., SHELTON, CT 06484

11-90/10M/GP