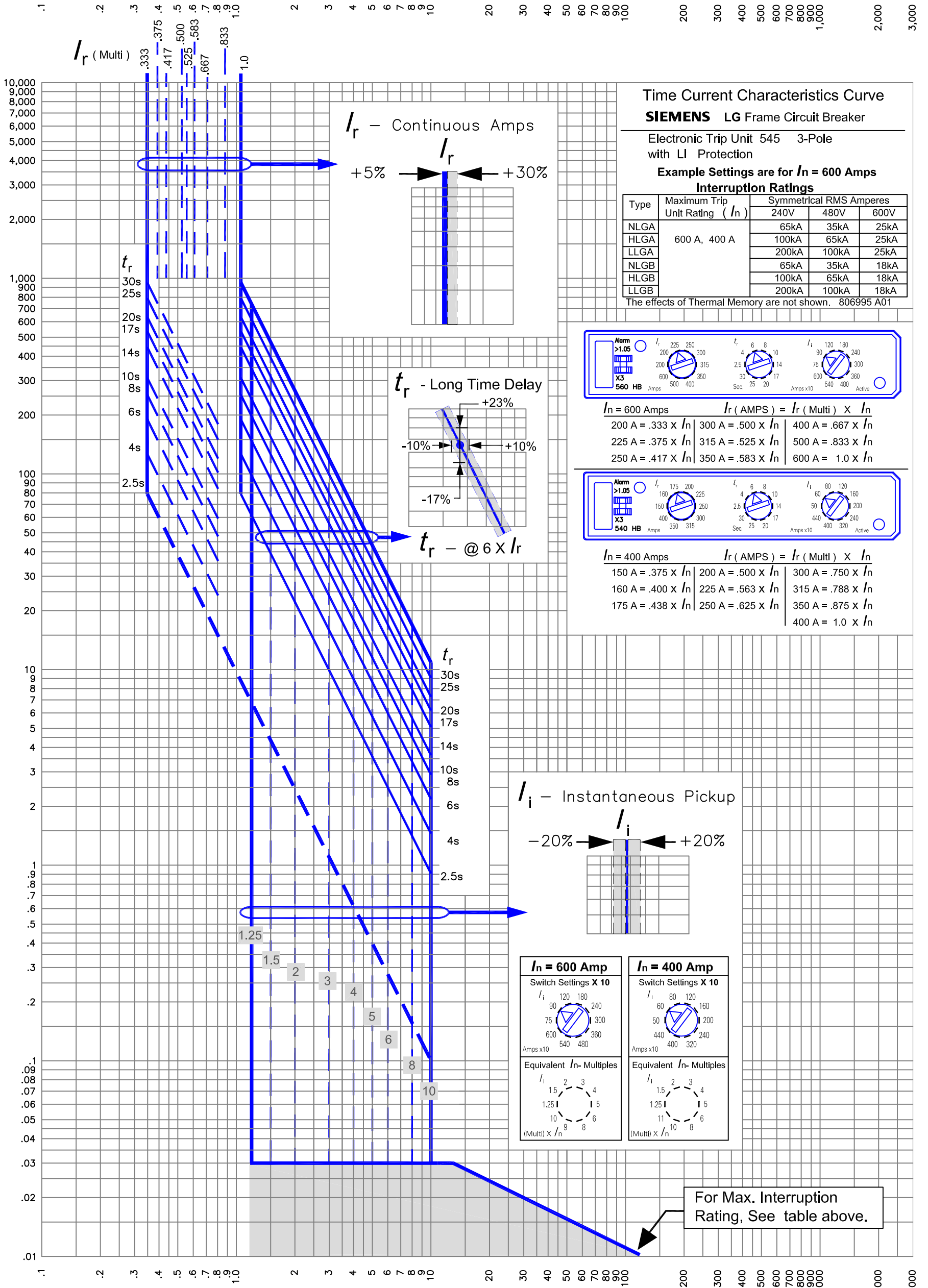


t [s]

Time in Seconds



Time Current Characteristics Curve
SIEMENS LG Frame Circuit Breaker

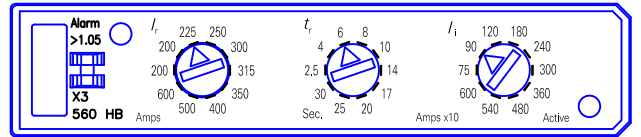
Electronic Trip Unit 545 3-Pole
with LI Protection

Example Settings are for $I_n = 600$ Amps

Interruption Ratings

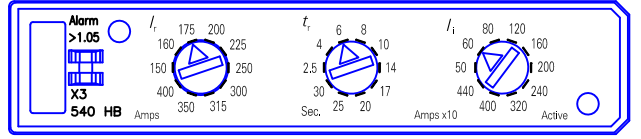
Type	Maximum Trip Unit Rating (I_n)	Symmetrical RMS Amperes		
		240V	480V	600V
NLGA	600 A, 400 A	65kA	35kA	25kA
HLGA		100kA	65kA	25kA
LLGA		200kA	100kA	25kA
NLGB		65kA	35kA	18kA
HLGB		100kA	65kA	18kA
LLGB		200kA	100kA	18kA

The effects of Thermal Memory are not shown. 806995 A01



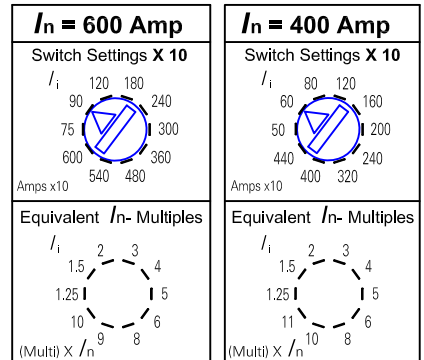
$I_n = 600$ Amps I_r (AMPS) = I_r (Multi) \times I_n

200 A = .333 \times I_n	300 A = .500 \times I_n	400 A = .667 \times I_n
225 A = .375 \times I_n	315 A = .525 \times I_n	500 A = .833 \times I_n
250 A = .417 \times I_n	350 A = .583 \times I_n	600 A = 1.0 \times I_n

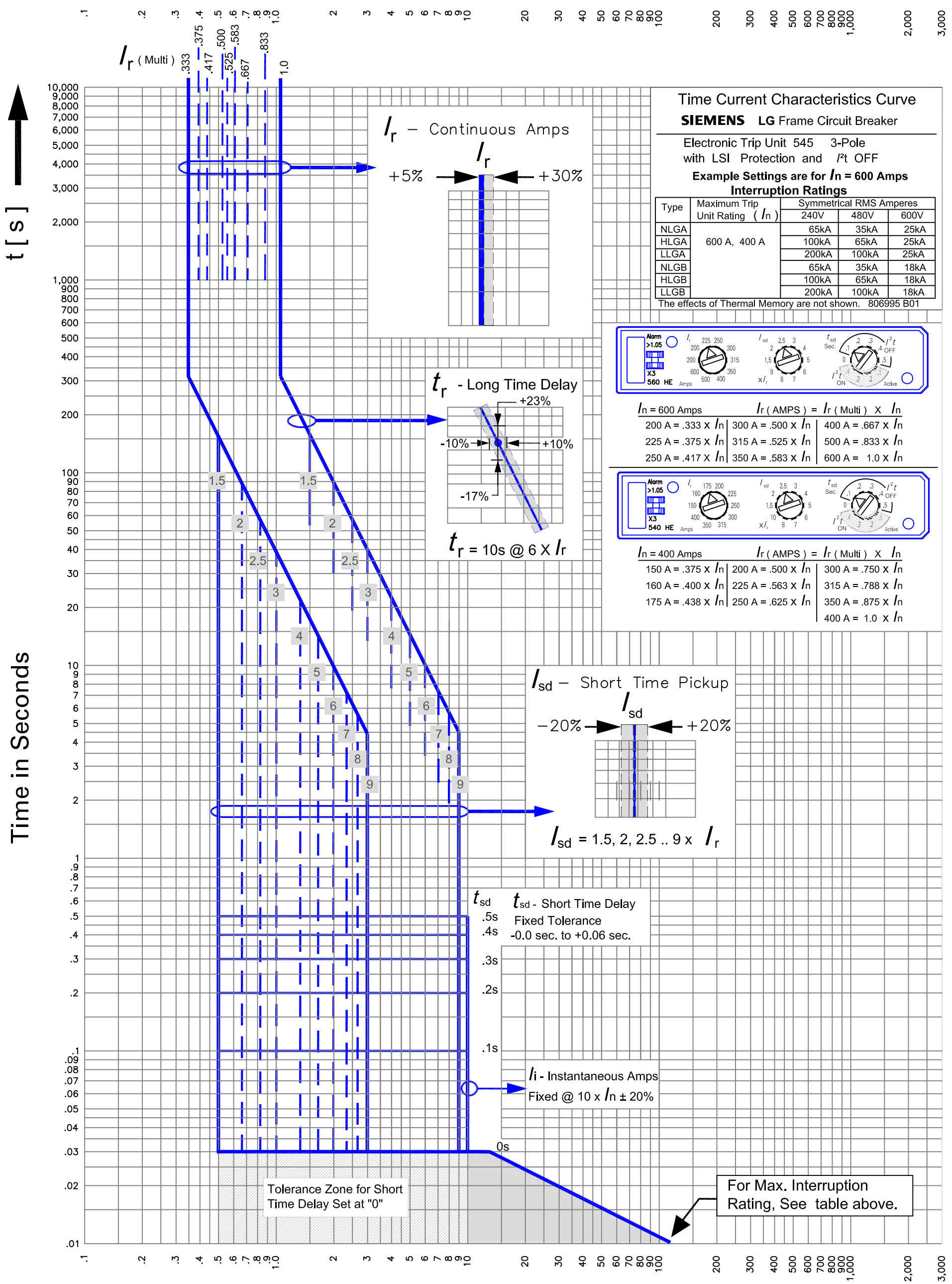


$I_n = 400$ Amps I_r (AMPS) = I_r (Multi) \times I_n

150 A = .375 \times I_n	200 A = .500 \times I_n	300 A = .750 \times I_n
160 A = .400 \times I_n	225 A = .563 \times I_n	315 A = .788 \times I_n
175 A = .438 \times I_n	250 A = .625 \times I_n	350 A = .875 \times I_n
		400 A = 1.0 \times I_n

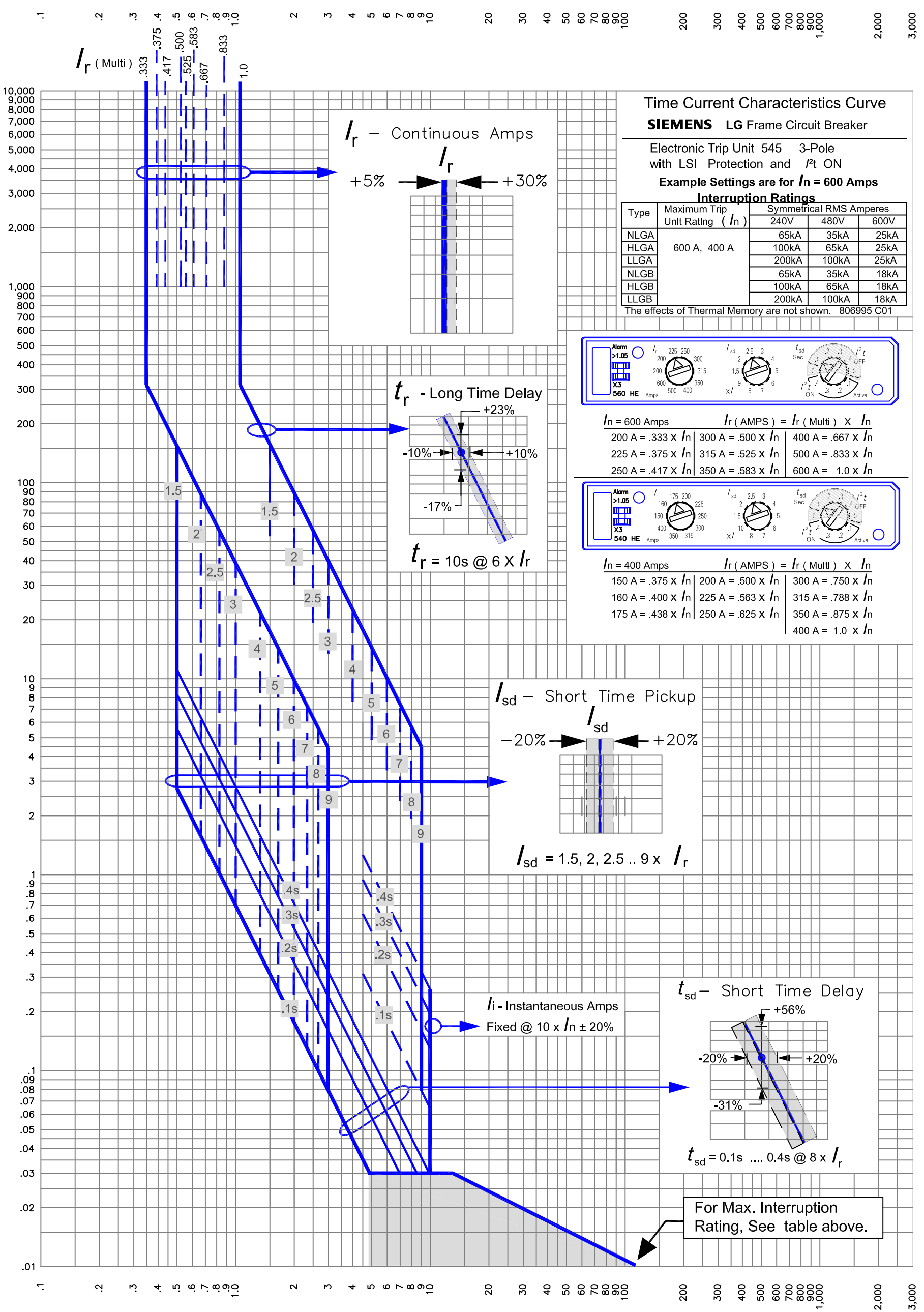


For Max. Interruption Rating, See table above.



t [s]

Time in Seconds



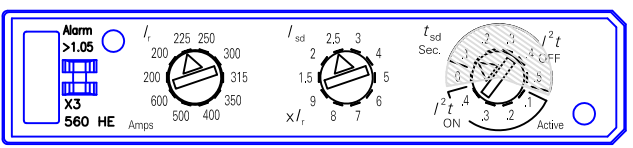
Time Current Characteristics Curve
SIEMENS LG Frame Circuit Breaker

Electronic Trip Unit 545 3-Pole
with LSI Protection and I²t ON
Example Settings are for I_n = 600 Amps

Interruption Ratings

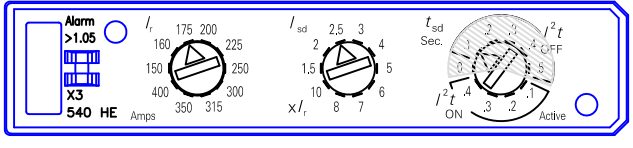
Type	Maximum Trip Unit Rating (I _n)	Symmetrical RMS Amperes		
		240V	480V	600V
NLGA	600 A, 400 A	65kA	35kA	25kA
HLGA		100kA	65kA	25kA
LLGA		200kA	100kA	25kA
NLGB		65kA	35kA	18kA
HLGB		100kA	65kA	18kA
LLGB		200kA	100kA	18kA

The effects of Thermal Memory are not shown. 806995 C01



I_n = 600 Amps

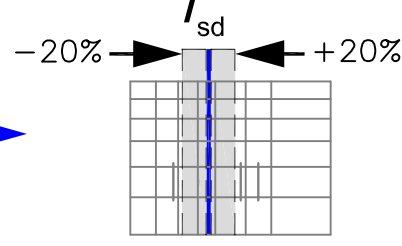
I _r (AMPS)	I _r (Multi) × I _n
200 A	.333 × I _n
225 A	.375 × I _n
250 A	.417 × I _n
300 A	.500 × I _n
315 A	.525 × I _n
350 A	.583 × I _n
400 A	.667 × I _n
600 A	1.0 × I _n



I_n = 400 Amps

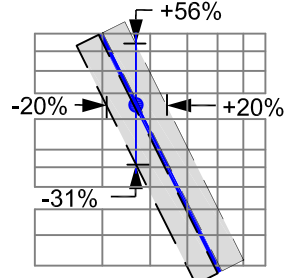
I _r (AMPS)	I _r (Multi) × I _n
150 A	.375 × I _n
160 A	.400 × I _n
175 A	.438 × I _n
200 A	.500 × I _n
225 A	.563 × I _n
250 A	.625 × I _n
300 A	.750 × I _n
315 A	.788 × I _n
350 A	.875 × I _n
400 A	1.0 × I _n

I_{sd} - Short Time Pickup



I_{sd} = 1.5, 2, 2.5 .. 9 x I_r

t_{sd} - Short Time Delay



t_{sd} = 0.1s 0.4s @ 8 x I_r

I_i - Instantaneous Amps
Fixed @ 10 x I_n ± 20%

For Max. Interruption Rating, See table above.

