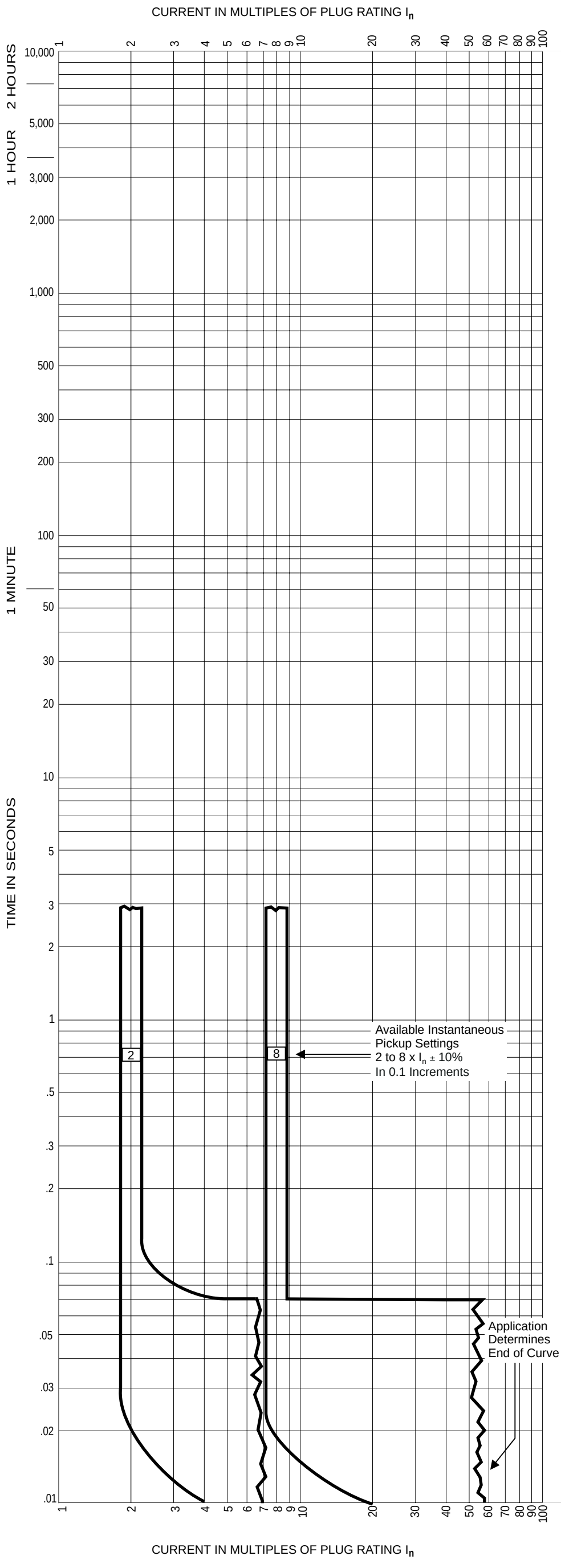
Cutler-Hammer

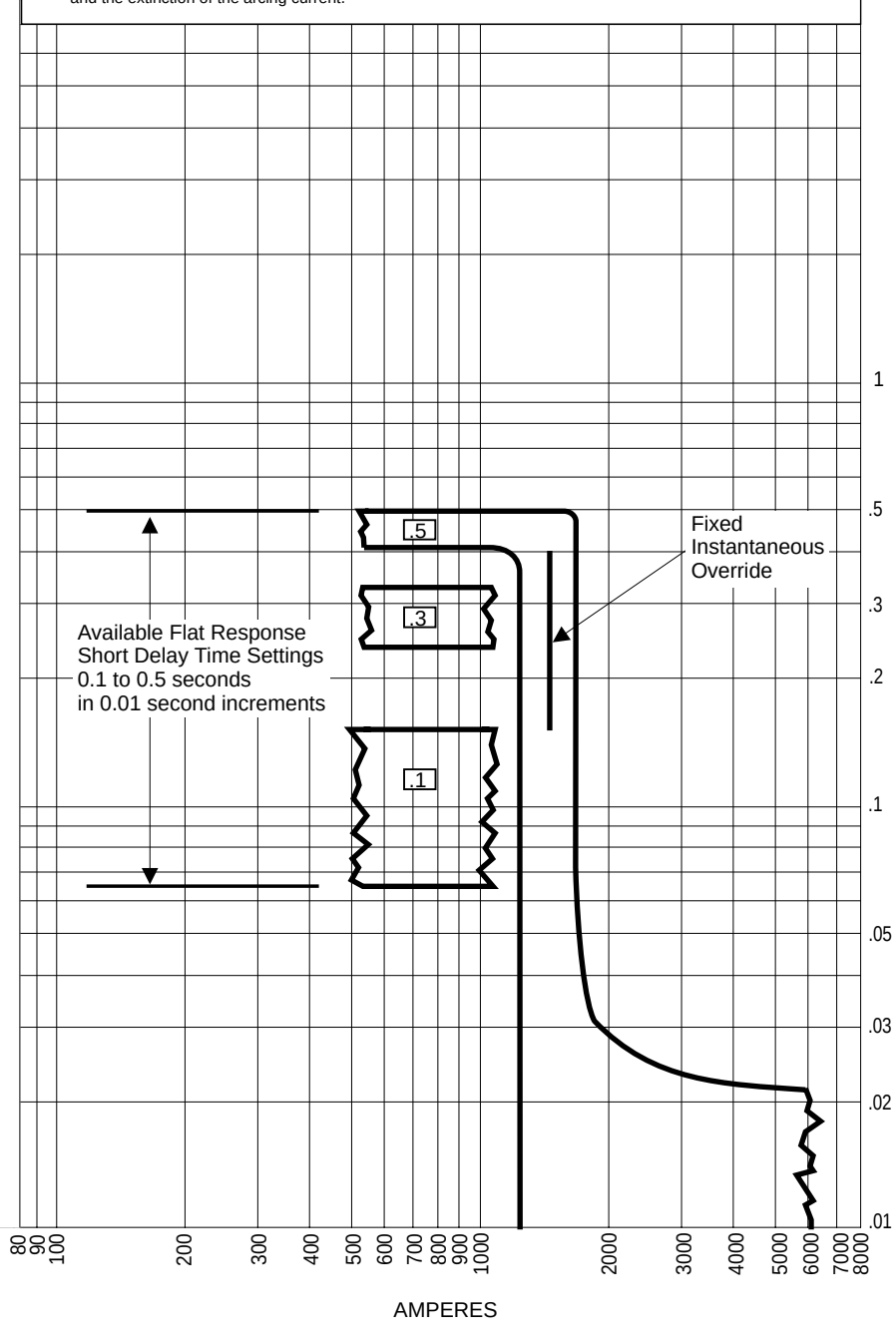


Circuit Breaker Time/Current Curves (Phase Current)
Series C® K - Frame Circuit Breakers
Equipped With 125A Digitrip Optim Trip Units
Response: INSTANTANEOUS AND OVERRIDE

Available Rating Plugs

Maximum Ampere Rating	Ampere Rating (I_n)	Rating Plug Catalog Number	Instantaneous Pickup Range 2 to 8 x I_n Amperes	Override Amperes
125	125	ORPK125A125	250 -1000	1275 -1725
	110	ORPK125A110	220 - 880	1275 -1725
	100	ORPK125A100	200 - 800	1275 -1725
	90	ORPK125A090	180 - 720	1275 -1725
	70	ORPK125A070	140 - 560	1275 -1725

Interrupting Rating @ 50/60 Hz RMS Sym. Amperes (kA)

Breaker Type	UL / CSA Volts	240	480	600
KD, CKD	kA	65	35	25
HKD, CHKD		100	65	35
KDC		200	100	50

Notes
1) For field testing primary injection methods, follow NEMA AB4-1991 publications.
2) Calibration response in short delay pickup range is the same for 1, 2, or 3 poles in series.
3) There is a memory effect that can act to shorten the long delay. The memory effect comes into play if a current above the long 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 shorter time than normal. The amount of time reduction is inverse to the amount of time that has elapsed since the previous overload. Approximately five minutes is required between overloads to completely reset the memory.
4) The end of the curve is determined by the interrupting rating of the circuit breaker. See above tabulation.
5) For ground fault time / current curves see SC-6930-98.
6) The instantaneous settings have conventional 100%, +/- 10% as the pickup points.
7) For additional curve tolerances contact Cutler-Hammer.
8) Total clearing times shown include the response times of the trip unit, the breaker opening, and the extinction of the arcing current.