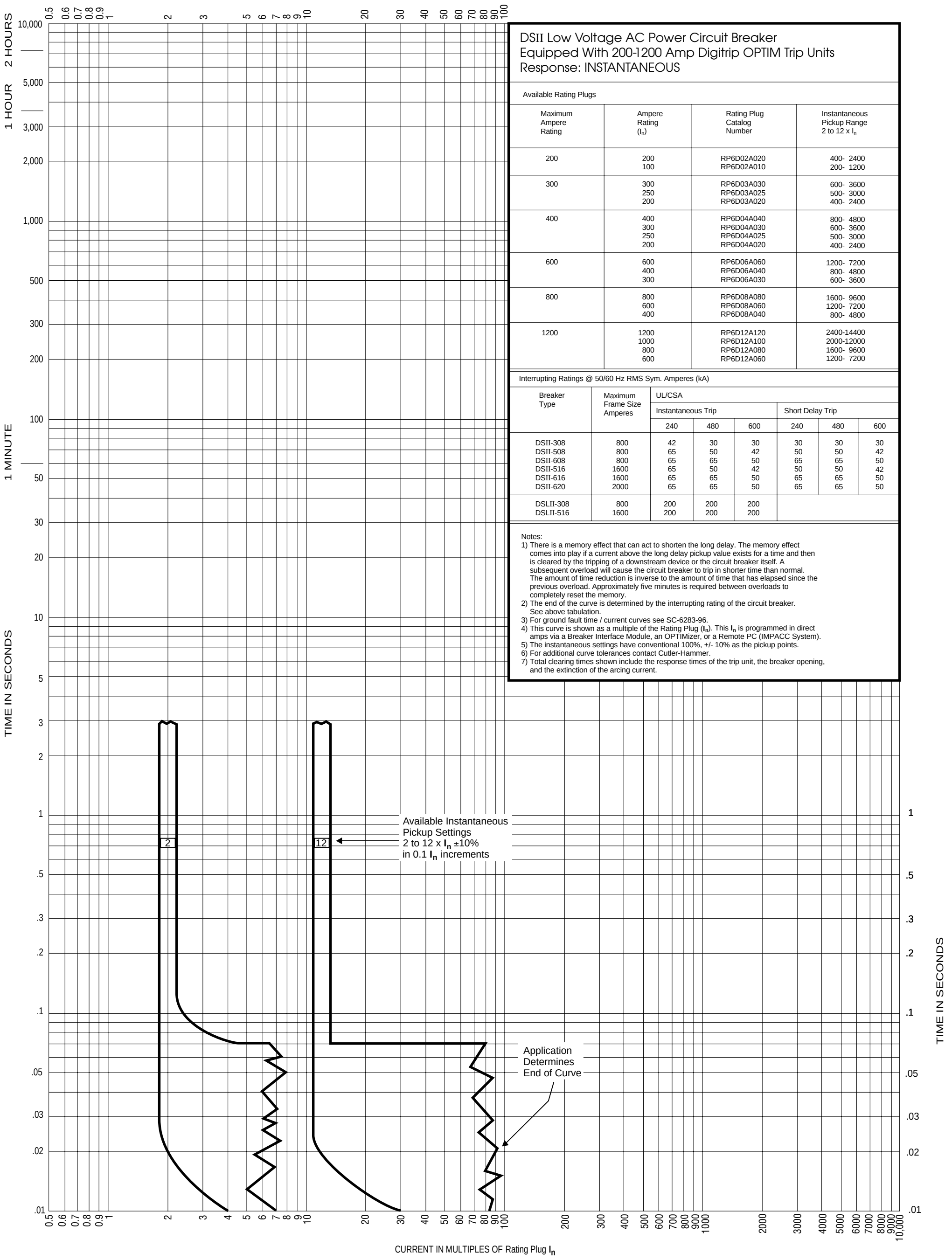
Application Data 32 - 880
Characteristic Curves for Types DSII and DSLII Circuit Breakers

Cutler-Hammer

Trip Units are **NOT AVAILABLE WITH ONLY INSTANTANEOUS PROTECTION. THIS CURVE MUST BE USED** in conjunction **WITH Curve No. SC-6318-96, 6319-96, or 6320-96** for Long Delay & Short Delay protection to obtain complete time-current characteristic.



DSII Low Voltage AC Power Circuit Breaker Equipped With 200-1200 Amp Digitrip OPTIM Trip Units
Response: INSTANTANEOUS

Available Rating Plugs

Maximum Ampere Rating	Ampere Rating (I_n)	Rating Plug Catalog Number	Instantaneous Pickup Range 2 to 12 x I_n
200	200 100	RP6D02A020 RP6D02A010	400- 2400 200- 1200
300	300 250 200	RP6D03A030 RP6D03A025 RP6D03A020	600- 3600 500- 3000 400- 2400
400	400 300 250 200	RP6D04A040 RP6D04A030 RP6D04A025 RP6D04A020	800- 4800 600- 3600 500- 3000 400- 2400
600	600 400 300	RP6D06A060 RP6D06A040 RP6D06A030	1200- 7200 800- 4800 600- 3600
800	800 600 400	RP6D08A080 RP6D08A060 RP6D08A040	1600- 9600 1200- 7200 800- 4800
1200	1200 1000 800 600	RP6D12A120 RP6D12A100 RP6D12A080 RP6D12A060	2400-14400 2000-12000 1600- 9600 1200- 7200

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

Breaker Type	Maximum Frame Size Amperes	UL/CSA					
		Instantaneous Trip			Short Delay Trip		
		240	480	600	240	480	600
DSII-308	800	42	30	30	30	30	30
DSII-508	800	65	50	42	50	50	42
DSII-608	800	65	65	50	65	65	50
DSII-516	1600	65	50	42	50	50	42
DSII-616	1600	65	65	50	65	65	50
DSII-620	2000	65	65	50	65	65	50
DSLII-308	800	200	200	200			
DSLII-516	1600	200	200	200			

Notes:
1) 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.
2) The end of the curve is determined by the interrupting rating of the circuit breaker. See above tabulation.
3) For ground fault time / current curves see SC-6283-96.
4) This curve is shown as a multiple of the Rating Plug (I_n). This I_n is programmed in direct amps via a Breaker Interface Module, an OPTIMizer, or a Remote PC (IMPACC System).
5) The instantaneous settings have conventional 100%, +/- 10% as the pickup points.
6) For additional curve tolerances contact Cutler-Hammer.
7) Total clearing times shown include the response times of the trip unit, the breaker opening, and the extinction of the arcing current.

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