I M P O R T A N T

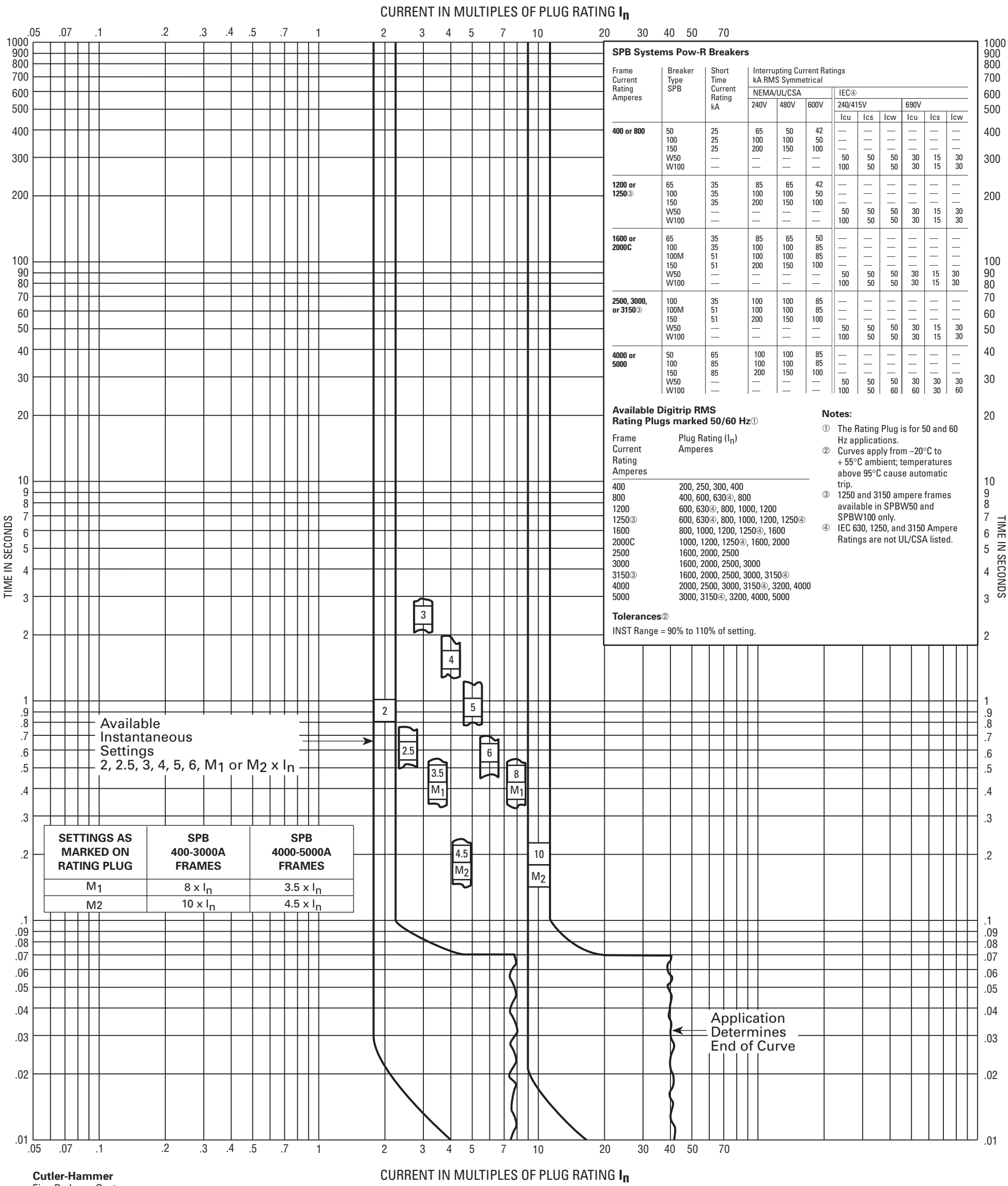
TRIP UNITS ARE **NOT AVAILABLE** WITH **ONLY INSTANTANEOUS** PROTECTION. **THIS CURVE MUST BE USED** in conjunction **WITH** Curve No. SC-5624-93 for **LONG DELAY** (and if applicable **SHORT DELAY**) **PROTECTION** to obtain the complete time-current characteristic.

Application Data
29-863

Cutler-Hammer

Type Systems Pow-R Breaker with DIGITRIP RMS 510/610/810/910 Trip Units

Typical **Instantaneous** Time-Phase Current Characteristic Curve **(I)**



SETTINGS AS MARKED ON RATING PLUG	SPB 400-3000A FRAMES	SPB 4000-5000A FRAMES
M_1	8 x I_n	3.5 x I_n
M2	10 x I_n	4.5 x I_n

SPB Systems Pow-R Breakers

Frame Current Rating Amperes	Breaker Type SPB	Short Time Current Rating kA	Interrupting Current Ratings kA RMS Symmetrical NEMA/UL/CSA 240V	480V	600V	IEC④ 240/415V Icu	Ics	Icw	690V Icu	Ics	Icw
400 or 800	50	25	65	50	42	—	—	—	—	—	—
	100	25	100	100	50	—	—	—	—	—	—
	150	25	200	150	100	—	—	—	—	—	—
	W50	—	—	—	—	50	50	50	30	15	30
	W100	—	—	—	—	100	50	50	30	15	30
1200 or 1250③	65	35	85	65	42	—	—	—	—	—	—
	100	35	100	100	50	—	—	—	—	—	—
	150	35	200	150	100	—	—	—	—	—	—
	W50	—	—	—	—	50	50	50	30	15	30
	W100	—	—	—	—	100	50	50	30	15	30
1600 or 2000C	65	35	85	65	50	—	—	—	—	—	—
	100	35	100	100	85	—	—	—	—	—	—
	100M	51	100	100	85	—	—	—	—	—	—
	150	51	200	150	100	—	—	—	—	—	—
	W50	—	—	—	—	50	50	50	30	15	30
	W100	—	—	—	—	100	50	50	30	15	30
2500, 3000, or 3150③	100	35	100	100	85	—	—	—	—	—	—
	100M	51	100	100	85	—	—	—	—	—	—
	150	51	200	150	100	—	—	—	—	—	—
	W50	—	—	—	—	50	50	50	30	15	30
	W100	—	—	—	—	100	50	50	30	15	30
4000 or 5000	50	65	100	100	85	—	—	—	—	—	—
	100	85	100	100	85	—	—	—	—	—	—
	150	85	200	150	100	—	—	—	—	—	—
	W50	—	—	—	—	50	50	50	30	30	30
	W100	—	—	—	—	100	50	60	60	30	60

Available Digitrip RMS Rating Plugs marked 50/60 Hz①

Frame Current Rating Amperes	Plug Rating (I_n) Amperes
400	200, 250, 300, 400
800	400, 600, 630④, 800
1200	600, 630④, 800, 1000, 1200
1250③	600, 630④, 800, 1000, 1200, 1250④
1600	800, 1000, 1200, 1250④, 1600
2000C	1000, 1200, 1250④, 1600, 2000
2500	1600, 2000, 2500
3000	1600, 2000, 2500, 3000
3150③	1600, 2000, 2500, 3000, 3150④
4000	2000, 2500, 3000, 3150④, 3200, 4000
5000	3000, 3150④, 3200, 4000, 5000

Tolerances②

INST Range = 90% to 110% of setting.

Notes:

① The Rating Plug is for 50 and 60 Hz applications.
② Curves apply from –20°C to + 55°C ambient; temperatures above 95°C cause automatic trip.
③ 1250 and 3150 ampere frames available in SPBW50 and SPBW100 only.
④ IEC 630, 1250, and 3150 Ampere Ratings are not UL/CSA listed.

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Dwg. 8886C00

Curve No. SC-5623-93

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