

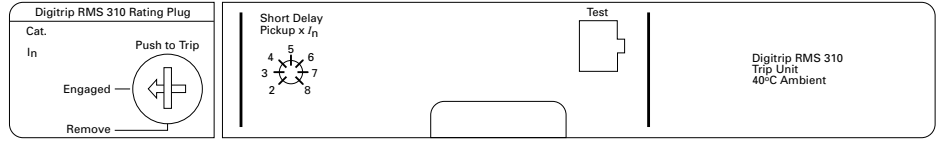
**Circuit Breaker Time/Current Curves (Phase Current) ④**

**Series C® L-Frame Circuit Breakers**  
**Equipped With Type LES Digitrip RMS 310 Trip Units**

Catalog Types LES3600LS, LES3600LSG, LES4600LS, LES4600LSE, and LES4600LSP Digitrip RMS 310 Trip Units for use with Circuit Breaker Types LDC and CLDC 3 and 4 Poles

**Fixed Short Delay Time**

**Typical Trip Unit Nameplate**



**Available Rating Plugs**

Ampere Rating ( $I_n$ )	Type	Rating Plug Catalog Number	Short Delay Pickup Range Amperes
600	Fixed	6LES600T	1200-4800
500	Fixed	6LES500T	1000-4000
400	Fixed	6LES400T	800-3200
350	Fixed	6LES350T	700-2800
300	Fixed	6LES300T	600-2400
300, 400, 500, 600	Adjustable	A6LES600T1	600-4800

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

Breaker Type	UL/CSA			IEC 947-2			
	Volts	240	480	240	380	415	
LDC, CLDC	kA	200	100	50	100	100	50
		$I_{cu}$	$I_{cs}$	$I_{cu}$	$I_{cs}$	$I_{cu}$	$I_{cs}$
LDC, CLDC	kA	200	100	100	50	100	50

Utilization Category A  
 $U_{imp} = 8kV$

**Notes**

Digitrip RMS 310 trip units are suitable for functional field testing with test kit Cat. No. STK2. For field testing using primary injection methods, follow NEMA AB4-1991 publications.

Calibration response in short delay pick-up range is same for 1, 2 or 3 poles in series.

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 pick-up 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 delay 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.

- ① Curve accuracy applies from  $-20^{\circ}C$  to  $+55^{\circ}C$  ambient. For possible continuous ampere derating for ambient above  $40^{\circ}C$ , refer to Cutler-Hammer.
- ② For high fault current levels a fixed instantaneous override is provided at 5500A. (Tolerance  $\pm 15\%$ ).
- ③ The end of the curve is determined by the interrupting rating of the circuit breaker. See above tabulation.
- ④ For ground fault time/current curves see SC-5661-93.

