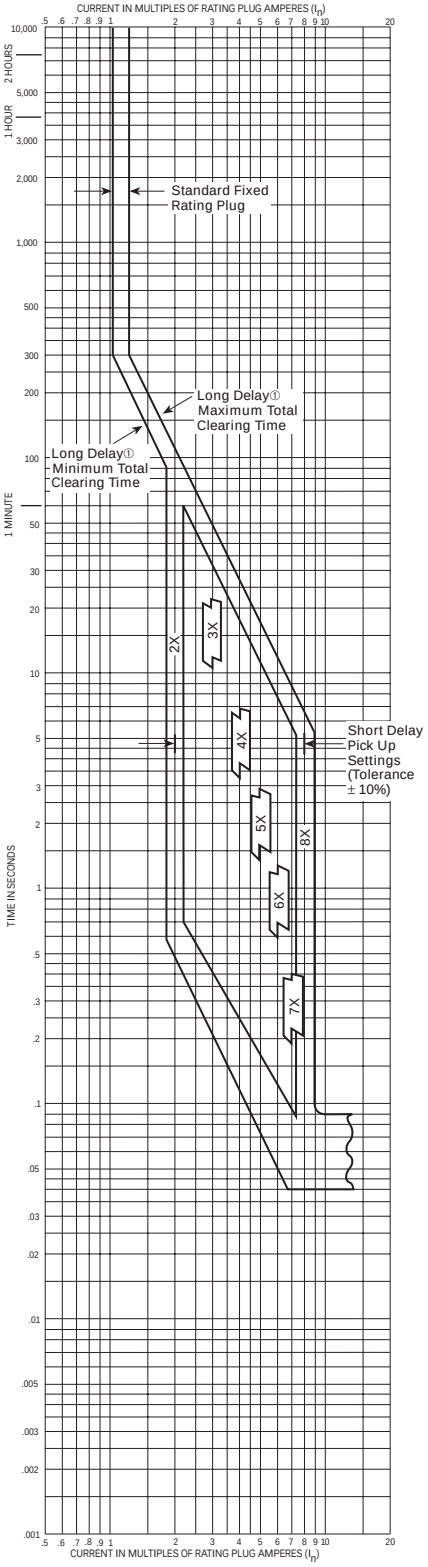
AB DE-ION Circuit Breakers

Types KD, CKD, HKD, CHKD Equipped with Type KES Digitrip RMS 310 Trip Units, Types KES3400LS, KES3400LSG

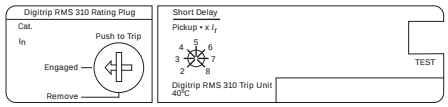


Circuit Breaker Time/Current Curves (Phase Current) ④

Series C® K-Frame Circuit Breakers
Equipped With Type KES Digitrip RMS 310 Trip Units

Catalog Types KES3400LS, KES3400LSG Digitrip RMS 310 Trip Units for use with Circuit Breaker Types KD, HKD, CKD, and CHKD, 400A. max.

Fixed Short Delay Time **Typical Trip Unit Nameplate**



Available Rating Plugs

Ampere Rating (I_n)	Type	Catalog Number	Short Delay Pickup Range Amperes
400	Fixed	4KES 400T	800-3200
350	Fixed	4KES 350T	700-2800
300	Fixed	4KES 300T	600-2400
250	Fixed	4KES 250T	500-2000
225	Fixed	4KES 225T	450-1800
200	Fixed	4KES 200T	400-1600
200, 250, 300, 400	Adjustable	A4KES 400T1	400-3200
250, 300, 350, 400	Adjustable	A4KES 400T3	500-3200

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

Breaker Type	UL/CSA 240V	480V	600V
KD, CKD	65	35	25
HKD, CHKD	100	65	35

Breaker Type	IEC 947-2 240V	380V	415V
KD, CKD	65	40	40
HKD, CHKD	100	65	65

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 publication AB-4-1991.

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 down stream 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°C to +55°C ambient. For possible continuous ampere derating for ambient above 40°C, refer to Cutler-Hammer.

② For high fault current levels a fixed instantaneous override is provided at 4000A. (Tolerance ±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 curve see SC-5650-93.