

Circuit Breaker Time/Current Curves
Series C® K-Frame Circuit Breakers
Equipped with Type KT Thermal-Magnetic Trip Unit

Catalog Types KDB, KD, HKD Circuit Breakers, 100-400 Amperes, 2, 3 and 4 Poles, 600 Volts Ac Max., 250 Volts Dc

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60°C up to 125 amps. 75°C above 125 amps) per terminal. Tested in open air with current in all poles. Instantaneous calibration based on single-pole tests.

Maximum Voltage
600V., Ac (60 Hz)
250 V., Dc

Breaker Rating

Rated Amperes (I_n)	Instantaneous Trip Amperes
100, 125, 150,	500 to 1000% of trip unit rating
175, 200, 225,	(See Figure Below)
250, 300, 350,	(Dc values are approximately 40% higher)
400	

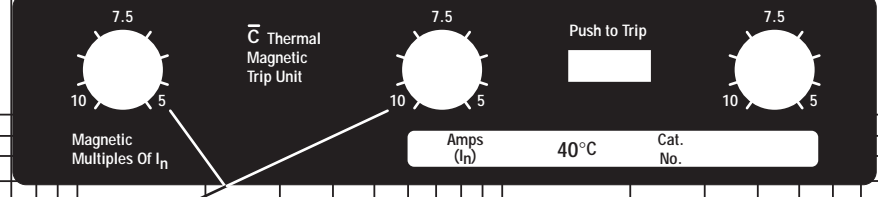
Interrupting Rating (UL/CSA)

Breaker Type	RMS Sym Amperes			Amperes
	@ 240 V., Ac	@ 480 V., Ac	@ 600 V., Ac	@ 250 V., Dc
KDB	65,000	35,000	25,000	10,000
KD	65,000	35,000	25,000	10,000
HKD	100,000	65,000	35,000	22,000

① Single pole data at 25°C based on NEMA Procedures (AB 4-1991) for verifying performance of molded case circuit breakers.

Note: For additional information on the trip unit, see IL 29C603.

Typical Trip Unit Nameplate



Individual Pole Adjustments

Adjustable Magnetic Trip

±20%

5X

10X

±10%

Maximum Interrupting Time

Interrupting Rating Determines End of Curve