

K-Frame

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K-Frame



Typical K-Frame Circuit Breaker

Product Description

- All K-Frame Circuit Breakers are HACR rated.
- K-Frame circuit breakers are available as individual components (Frame, Trip Unit, Terminals), or factory assembled complete breakers.
- K-Frame circuit breakers with non-interchangeable trip units are suitable for reverse feed use.

Technical Data and Specifications

Table 12-62. NEMA/UL489/CSA Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)				
		Volts AC (50/60Hz)				Volts DC
		240	277	480	600	250 ^{①②}
DK	2, 3	65	—	—	—	10
KDB	2, 3, 4	65	—	35	25	10
KD	2, 3, 4	65	—	35	25	10
HKD	2, 3, 4	100	—	65	35	22
KDC	2, 3, 4	200	—	100	50	22
CKD	3	65	—	35	25	10
CHKD	3	100	—	65	35	22

① 2-pole circuit breaker or two outside poles of 3-pole circuit breaker.

② Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 22 kA.

Table 12-63. IEC 157-1 (P1) Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)						
		Volts AC (50/60Hz)						Volts DC
		240	380	415	440	500	600	250 ^{③④}
DK	2, 3	65	—	—	—	—	—	10
KDB	2, 3, 4	65	40	40	—	—	—	10
KD	2, 3, 4	65	40	40	—	—	—	10
HKD	2, 3, 4	100	65	65	—	—	—	22
KDC	2, 3, 4	200	100	100	—	—	—	22

③ 2-pole circuit breaker or two outside poles of 3-pole circuit breaker.

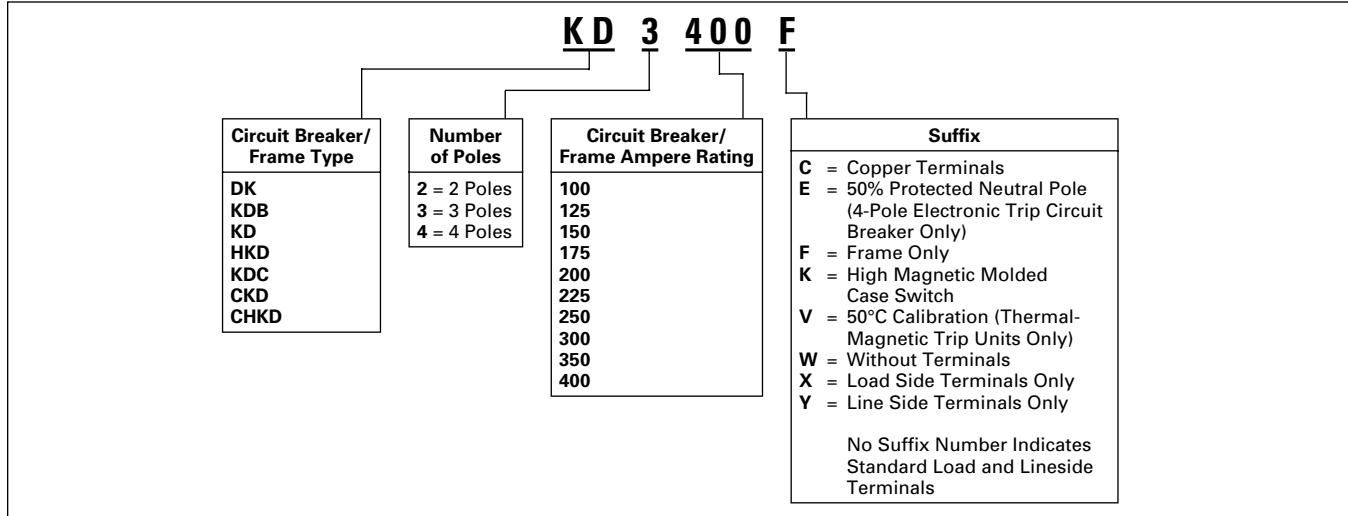
④ Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 22 kA.

K-Frame

Product Selection

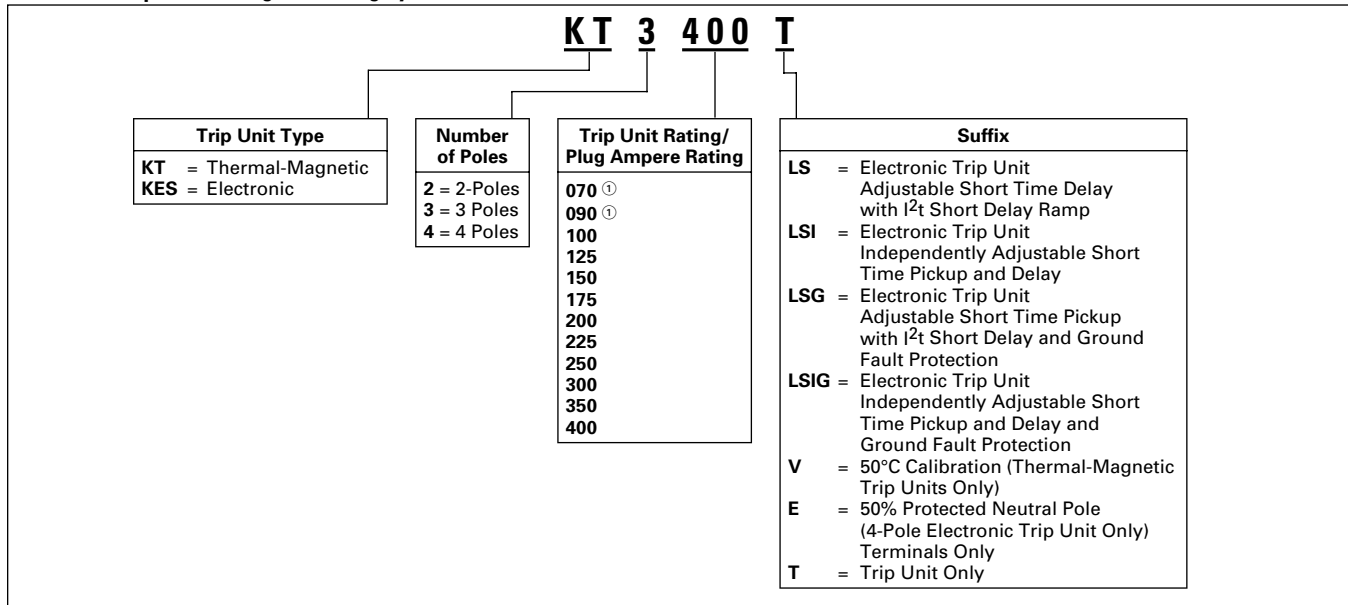
This information is presented only as an aid to understanding Catalog Numbers. It is not to be used to build Catalog Numbers for circuit breakers or trip units.

Table 12-67. Circuit Breaker/Frame Catalog Numbering System



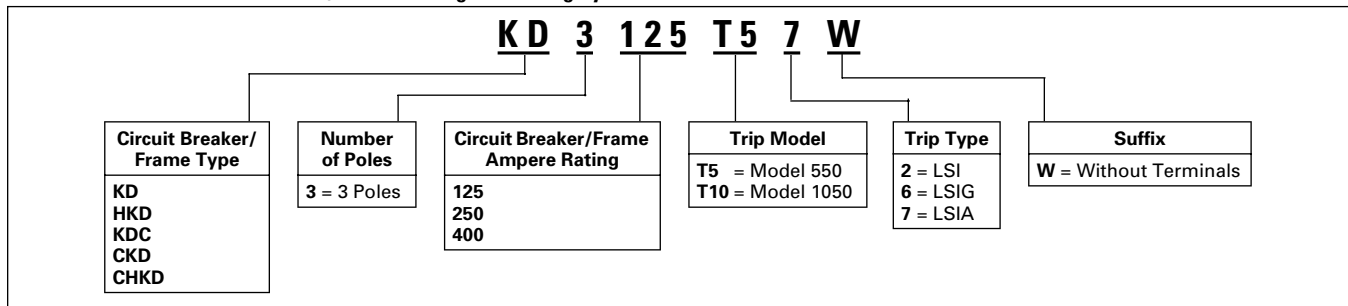
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Table 12-68. Trip Unit Catalog Numbering System



① Ampere rating available with electronic trip unit only.

Table 12-69. OPTIM Circuit Breaker/Frame Catalog Numbering System



K-Frame

100% Rated Types CKD and CHKD Electronic Circuit Breakers

The NEC allows the breaker to be rated at 100% of its frame size in an assembly, provided that 90°C wire is applied at the 75°C ampacity. All 100% rated circuit breakers have electronic trip units.

Table 12-76. 100% Rated Types CKD and CHKD Electronic Circuit Breakers ①

Max. Cont. Ampere Rating @ 40°C	Circuit Breaker Frame Only		Digitrip RMS 310 Trip Unit Only				Digitrip 310 Rating Plug Only			Standard Terminals Only See Page 12-50 for Optional Terminals
	Standard Interrupting Capacity 35 kAIC @ 480V AC	High Interrupting Capacity 65 kAIC @ 480V AC	Standard	Options			Ampere Rating	Fixed Rating Plug	Adjustable Rating Plug	
			Adjustable Short Time Pickup with I ² t Short Delay Ramp	Independently Adjustable Short Time Pickup and Delay	Adjustable Short Time Pickup with I ² t Short Delay and Ground Fault Protection	Independently Adjustable Short Time Pickup and Delay and Ground Fault Protection			Ampere Rating	
Catalog Number		Catalog Number				Catalog Number				

3-Pole

125	CKD3400F	CHKD3400F	KES3125LS	KES3125LSI	KES3125LSG	KES3125LSIG	70	1KES070T	70/90/100/125 A1KES125T1	TA300K ② TA300K ② TA300K ② TA300K ② TA300K ②
							90	1KES090T		
							100	1KES100T		
							110	1KES110T		
							125	1KES125T		
250	CKD3400F	CHKD3400F	KES3250LS	KES3250LSI	KES3250LSG	KES3250LSIG	100	2KES100T	125/150/200/225 A2KES250T1	TA300K ② TA300K ② TA300K ② TA300K ② TA300K ② TA300K ② TA300K ② TA350K ②
							125	2KES125T		
							150	2KES150T		
							160	2KES160T		
							175	2KES175T		
							200	2KES200T		
							225	2KES225T		
							250	2KES250T		
400	CKD3400F	CHKD3400F	KES3400LS	KES3400LSI	KES3400LSG	KES3400LSIG	200	4KES200T	200/250/300/400 A4KES400T1	TA300K ② TA300K ② TA350K ② TA350K ② TA350K ② 3TA400K ③
							225	4KES225T		
							250	4KES250T		
							300	4KES300T		
							350	4KES350T		
							400	4KES400T		

① See Table 12-77 below for prices.

② Individually packed.

③ 3TA400K terminal kit contains one terminal for each pole and one terminal cover.

Note: Instruction Leaflet/FRED Number 29C104 for Breaker; 29C614 for KES Trip Unit

Table 12-77. 100% Rated Types CKD and CHKD Electronic Circuit Breakers Prices

Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
A1KES125T1	148.00	KES3250LSG	2,320.00	1KES090T	112.00	2KES200T	112.00
A2KES250T1	148.00	KES3250LSI	1,585.00	1KES100T	112.00	2KES225T	112.00
A4KES400T1	148.00	KES3250LSIG	2,825.00	1KES110T	112.00	2KES250T	112.00
CHKD3400F	4,735.00	KES3400LS	1,080.00	1KES125T	112.00	3TA400K	66.00
CKD3400F	2,705.00	KES3400LSG	2,320.00	—	—	4KES200T	112.00
KES3125LS	625.00	KES3400LSI	1,585.00	2KES100T	112.00	4KES225T	112.00
KES3125LSG	1,370.00	KES3400LSIG	2,825.00	2KES125T	112.00	4KES250T	112.00
KES3125LSI	745.00	TA300K	22.40	2KES150T	112.00	4KES300T	112.00
KES3125LSIG	1,495.00	TA350K	22.40	2KES160T	112.00	4KES350T	112.00
KES3250LS	1,080.00	1KES070T	112.00	2KES175T	112.00	4KES400T	112.00

Discount Symbol CB-2