

L-Frame

Table 12-195. Types LDB, HLDB and LDCB Electronic Circuit Breakers with Non-Interchangeable Electronic Trip Units Suitable for Reverse Feed

Maximum Continuous Ampere Rating at 40°C ①	Number of Poles	Circuit Breaker Frame Including DigiTrip RMS 310 Electronic Trip Unit Less Terminals and Rating Plug				DigiTrip RMS 310 Rating Plug (Order as Separate Items)	
		L – Adjustable Long Delay Pickup (By Adjustable Rating Plug) S – Adjustable Short Delay Pickup with Fixed Short Delay Time (I ² t Response) or Adjustable Short Time (Flat Response) I – Adjustable Instantaneous Pickup by Setting Short Time Delay Time to Instantaneous G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Delay (Flat Response)				Fixed	Adjustable
		Catalog Number					
		LS	LSI	LSG	LSIG	Catalog Number	
Short Time Range		2 – 8 × I _N	2 – 8 × I _N	2 – 8 × I _N	2 – 8 × I _N		
Short Time Delay		—	0 – 300 ms	—	0 – 300 ms		
Ground Fault Pickup		—	—	Varies by Frame	Varies by Frame		
Ground Fault Delay		—	—	0 – 500 ms	0 – 500 ms		

Type LDB, HLDB and LDCB with DigiTrip 310 Non-Interchangeable Trip Unit

600	3	LDB3600FT33W	LDB3600FT32W	LDB3600FT35W	LDB3600FT36W	6LES300T 6LES350T 6LES400T 6LES450T 6LES500T 6LES600T	300/400/500/600 A6LES600T1 420/440/460/480 A6LES400T5 520/540/560/580 A6LES500T5
600	3	HLDB3600FT33W	HLDB3600FT32W	HLDB3600FT35W	HLDB3600FT36W	6LES300T 6LES350T 6LES400T 6LES450T 6LES500T 6LES600T	300/400/500/600 A6LES600T1 420/440/460/480 A6LES400T5 520/540/560/580 A6LES500T5
600	3	LDCB3600FT33W	LDCB3600FT32W	LDCB3600FT35W	LDCB3600FT36W	6LES300T 6LES350T 6LES400T 6LES450T 6LES500T 6LES600T	300/400/500/600 A6LES600T1 420/440/460/480 A6LES400T5 520/540/560/580 A6LES500T5

① For ac use only.

L-Frame

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Typical L-Frame Circuit Breaker

Product Description

- All Cutler-Hammer L-Frame Circuit Breakers by Eaton Corporation are HACR rated.
- L-Frame circuit breakers are available as individual components (Frame, Trip Unit, Terminals), or factory assembled complete breakers.
- L-Frame circuit breakers with non-interchangeable trip units are suitable for reverse feed use.
- CE marked.

Technical Data and Specifications

Table 12-182. UL 489 Interrupting Capacity Ratings ^①

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA rms Symmetrical Amperes)					
		Volts ac (50/60 Hz)				Volts dc	
		240	277	480	600	125	250 ^{②③}
LDB	2, 3	65	—	35	25	—	22
LD	2, 3, 4	65	—	35	25	—	22
CLD	2, 3, 4	65	—	35	25	—	—
HLD, HLDB	2, 3, 4	100	—	65	35	—	25
CHLD ^④	2, 3, 4	100	—	65	35	—	—
LDC, LDCB ^⑤	2, 3, 4	200	—	100	50	—	30
CLDC ^{④⑤}	2, 3, 4	200	—	100	50	—	—

^① Utilization category A circuit breakers.

^② L/R = 8 milliseconds minimum.

^③ 2-pole circuit breaker or two poles of 3-pole circuit breaker. Incorporating Thermal-Magnetic trip unit only.

^④ 100% rated breakers.

^⑤ Current limiting.

Table 12-183. IEC 947-2 Interrupting Capacity Ratings ^⑥

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)							
		Volts ac (50/60 Hz)						Volts dc	
		240		415		690		250 ^{⑦⑧}	
		I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}
LDB	2, 3	85	85	45	45	20	10	20	10
LD	2, 3, 4	85	85	45	45	20	10	20	10
CLD ^⑨	2, 3, 4	85	85	45	45	20	10	—	—
HLD, HLDB	2, 3, 4	100	100	70	70	25	13	20	10
CHLD ^⑨	2, 3, 4	100	100	70	70	25	13	—	—
LDC, LDCB	2, 3, 4	200	100	100	75	35	18	20	10
CLDC ^⑨	2, 3, 4	200	100	100	75	35	18	—	—

^⑥ Utilization category A circuit breakers.

^⑦ L/R = 8 milliseconds minimum.

^⑧ 2-pole circuit breaker or two poles of 3-pole circuit breaker. Incorporating Thermal-Magnetic trip unit only.

^⑨ 100% rated breakers.

L-Frame

Dimensions/Weights

Table 12-185. Dimensions in Inches (mm)

Number of Poles	Width	Height	Depth
2, 3	8.25 (209.6)	10.75 (273.1)	4.06 (103.1)
4	11.00 (279.4)	10.75 (273.1)	4.06 (103.1)

Table 12-186. Approximate Shipping Weight, Lbs. (kg)

Breaker Type	Complete Breaker			Frame Only			Trip Unit		
	Number of Poles								
	2	3	4	2	3	4	2	3	4
LD, HLD, LDC	18 (8.2)	20 (9.1)	25 (11.3)	14 (6.4)	15 (6.8)	20 (9.1)	3 (1.4)	4 (1.8)	5 (2.3)
LDB	18 (8.2)	20 (9.1)	25 (11.3)	—	—	—	—	—	—

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 12-187. Circuit Breaker/Frame Catalog Numbering System

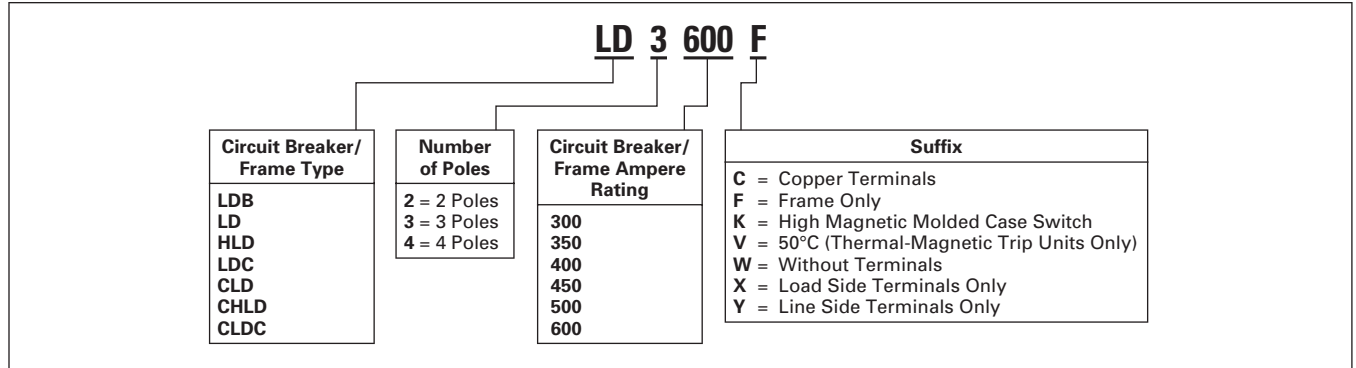


Table 12-188. Thermal-Magnetic Trip Unit Catalog Numbering System

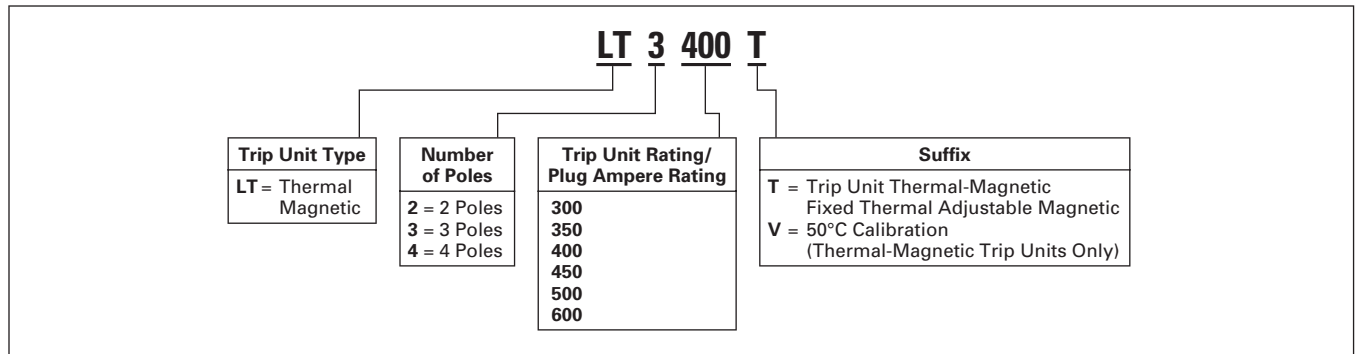


Table 12-189. OPTIM Circuit Breaker/Frame Catalog Numbering System

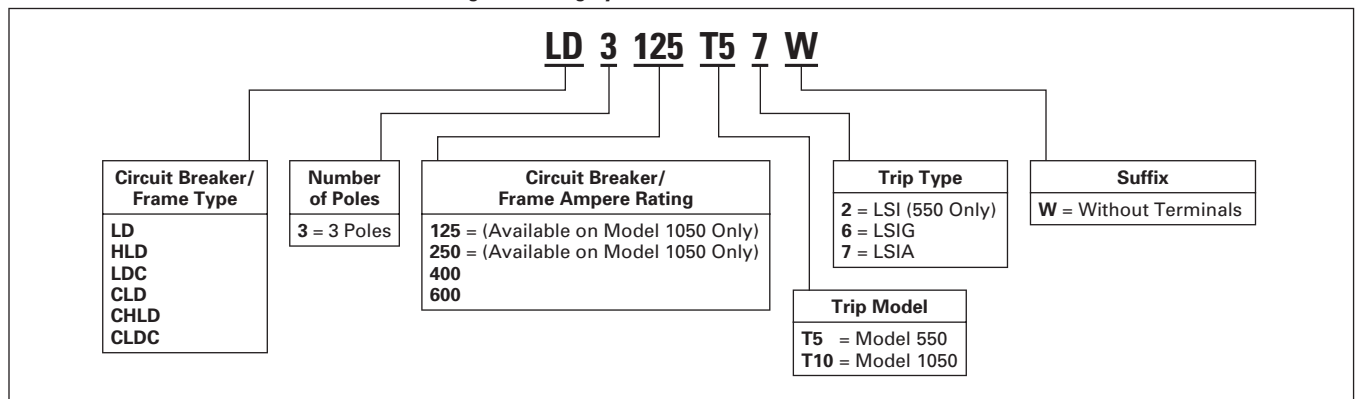


Table 12-190. Digitrip RMS 310 Trip Unit Catalog Numbering System

