Product Selection

Types LD, HLD and LDC Thermal-Magnetic Circuit Breakers with Interchangeable Trip Units

Maximum Continuous Ampere Rating at 40 °C ①	Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Ultra High Interrupting Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac Factory Assembled Circuit Consisting of Frame, Trip Unit and Terminals Catalog Number	Thermal-Magnetic Trip Unit Only For Use with Standard or High or Ultra High Interrupting Frames Catalog Number	Standard Terminals Only See Page V4-T2-307 for Optional Terminals Catalog Number
Two-Pole					
300	**LD2300**	**HLD2300**	**LDC2300**	**LT2300T**	**TA602LD** ②
350	**LD2350**	**HLD2350**	**LDC2350**	**LT2350T**	**TA602LD** ②
400	**LD2400**	**HLD2400**	**LDC2400**	**LT2400T**	**TA602LD** ②
450	**LD2450**	**HLD2450**	**LDC2450**	**LT2450T**	**TA602LD** ②
500	**LD2500**	**HLD2500**	**LDC2500**	**LT2500T**	**TA602LD** ②
600	**LD2600**	**HLD2600**	**LDC2600**	**LT2600T**	**2TA603LDK** ③
Three-Pole					
300	**LD3300**	**HLD3300**	**LDC3300**	**LT3300T**	**TA602LD** ②
350	**LD3350**	**HLD3350**	**LDC3350**	**LT3350T**	**TA602LD** ②
400	**LD3400**	**HLD3400**	**LDC3400**	**LT3400T**	**TA602LD** ②
450	**LD3450**	**HLD3450**	**LDC3450**	**LT3450T**	**TA602LD** ②
500	**LD3500**	**HLD3500**	**LDC3500**	**LT3500T**	**TA602LD** ②
600	**LD3600**	**HLD3600**	**LDC3600**	**LT3600T**	**3TA603LDK** ③
Four-Pole ④					
300	**LD4300**	**HLD4300**	**LDC4300**	**LT4300T**	**TA602LD** ②
350	**LD4350**	**HLD4350**	**LDC4350**	**LT4350T**	**TA602LD** ②
400	**LD4400**	**HLD4400**	**LDC4400**	**LT4400T**	**TA602LD** ②
450	**LD4450**	**HLD4450**	**LDC4450**	**LT4450T**	**TA602LD** ②
500	**LD4500**	**HLD4500**	**LDC4500**	**LT4500T**	**TA602LD** ②
600	**LD4600**	**HLD4600**	**LDC4600**	**LT4600T**	**4TA603LDK** ③

Types LD, HLD and LDC Thermal-Magnetic Circuit Breakers—Frame Only

Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac Catalog Number	High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac Catalog Number	Ultra High Interrupting Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac Catalog Number
Two-Pole		
LD2600F	**HLD2600F**	**LDC2600F**
Three-Pole		
LD3600F	**HLD3600F**	**LDC3600F**
Four-Pole		
LD4600F	**HLD4600F**	**LDC4600F**

Notes

① Magnetic trip range 5–10 times continuous ampere rating.
② Individually packed.
③ Terminal kits contain one terminal for each pole and one terminal cover.
④ Neutral is in right pole.

Type LDB Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units ①

Maximum Continuous Ampere Rating	600 Vac Rated, 250 Vdc Complete Circuit Breaker Without Line and Load Terminals Catalog Number	With Standard Line and Load Terminals Only Catalog Number
Two-Pole		
300	**LDB2300W**	**LDB2300**
350	**LDB2350W**	**LDB2350**
400	**LDB2400W**	**LDB2400**
450	**LDB2450W**	**LDB2450**
500	**LDB2500W**	**LDB2500**
600	**LDB2600W**	**LDB2600**
Three-Pole		
300	**LDB3300W**	**LDB3300**
350	**LDB3350W**	**LDB3350**
400	**LDB3400W**	**LDB3400**
450	**LDB3450W**	**LDB3450**
500	**LDB3500W**	**LDB3500**
600	**LDB3600W**	**LDB3600**

Molded Case Switches

Eaton's molded case switches are used as compact switches in applications requiring high current switching capabilities. Molded case switches are constructed of circuit breaker components and are of the high instantaneous automatic type. Molded case switches are listed in accordance with Underwriters Laboratories Standard UL 489.

Molded Case Switches

Maximum Continuous Ampere Rating at 40 °C	600 Vac Maximum, 250 Vdc Circuit Breaker Only without Line and Load Terminals Catalog Number	Standard Terminals Only See Page V4-T2-307 for Optional Terminals Catalog Number
Two-Pole		
600	**LD2600WK**	**2TA603LDK**
600	**LDB2600WK** ①	**2TA603LDK**
600	**HLD2600WK**	**2TA603LDK**
Three-Pole		
600	**LD3600WK**	**3TA603LDK**
600	**LDB3600WK** ①	**3TA603LDK**
600	**HLD3600WK**	**3TA603LDK**
Four-Pole		
600	**LD4600WK**	**4TA603LDK**
600	**LDB4600WK** ①	**4TA603LDK**
600	**HLD4600WK**	**4TA603LDK**

Notes

① Factory sealed—suitable for reverse feed application.

Molded case switch will trip above 6000 amperes.

Accessories Selection Guide and Ordering Information

Line and Load Terminals

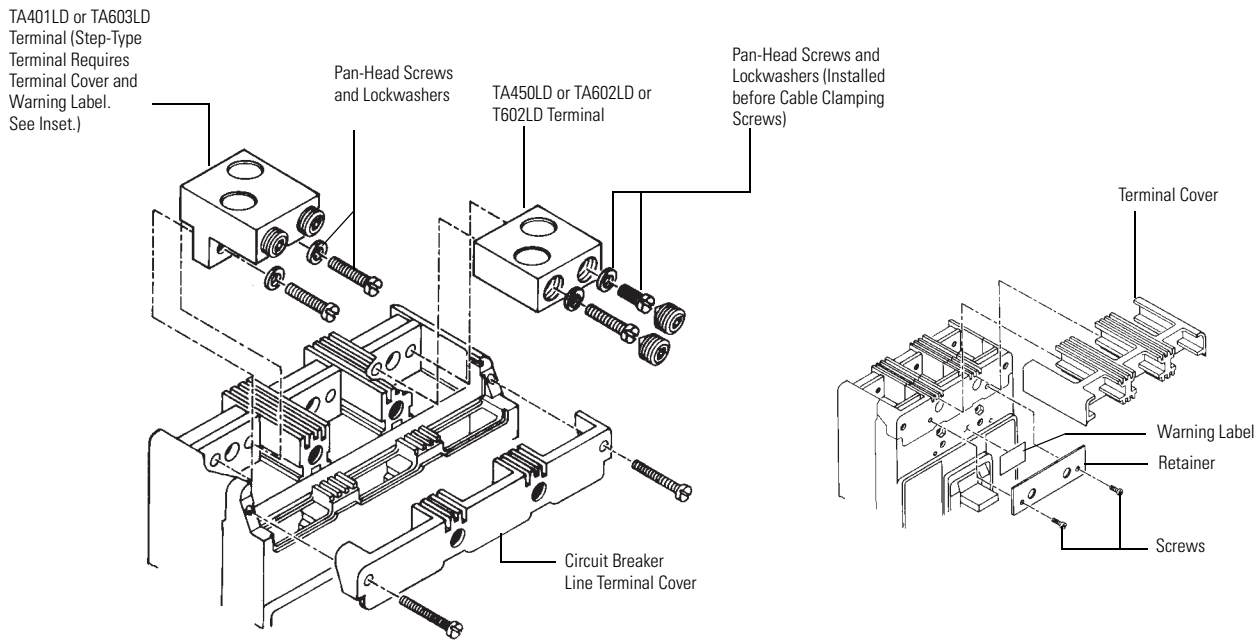
Eaton's line and load terminals provide wire connecting capabilities for specific ranges of continuous current ratings and wire types. All terminals comply with Underwriters Laboratories Standards UL 486A and UL 486B and CSA Standard C22.2 No. 65M. Unless otherwise specified, L-Frame circuit breaker line and load terminals are shipped separately for field installation.

The wire connecting terminal is secured with two pan-head, slotted screws and lockwashers that can be checked for the correct torque loading or retightened from the front of the circuit breaker before installation of the conductors. (Applies to all styles.) The circuit breaker line/load terminal conductors are positioned in the conducting holes in the wire connecting terminal and are secured with recessed socket screws that are tightened to the correct torque loading from the front of the circuit breaker.

Ordering Information

L-Frame circuit breakers use Cu/Al terminals as standard. When optional copper terminals are required, order by catalog Number. Specify if factory installation is required.

Terminals



Line and Load Terminals

Maximum Breaker Amperes	Terminal Body Material	Wire Type	AWG Wire Range/Number of Conductors	Metric Wire Range mm²	Terminal Poles	Catalog Number	Terminals with Control Wire Termination Catalog Number
Standard Cu/Al Pressure Terminals							
400	Aluminum	Cu/Al	4/0–600 (1)	120–300	Two-pole kit ①	**2TA401LDK**	—
400	Aluminum	Cu/Al	4/0–600 (1)	120–300	Three-pole kit ①	**3TA401LDK**	—
400	Aluminum	Cu/Al	4/0–600 (1)	120–300	Four-pole kit ①	**4TA401LDK**	—
450	Aluminum	Cu/Al	4–4/0 (2)	25–95	②	**TA450LD**	—
500	Aluminum	Cu/Al	3/0–350 (2)	95–150	②	**TA602LD**	**TA602LDCW**
600	Aluminum	Cu/Al	400–500 (2)	185–240	Two-pole kit ①	**2TA603LDK**	**2TA603LDKCW**
600	Aluminum	Cu/Al	400–500 (2)	185–240	Three-pole kit ①	**3TA603LDK**	**3TA603LDKCW**
600	Aluminum	Cu/Al	400–500 (2)	185–240	Four-pole kit ①	**4TA603LDK**	**4TA603LDKCW**
Optional Copper and Cu/Al Pressure Type Terminals							
600	Copper	Cu	250–350 (2)	120–250	②	**T602LD**	**T602LDCW**

Notes

① Terminal kits contain one terminal for each pole and one terminal cover.

② Individually packed.

Accessories Selection Guide and Ordering Information

Enclosures

Type 1 General Purpose

- Surface or flush mounting
- 15–1200 ampere range
- 600 Vac, 500 Vdc

Type 1 enclosed breakers are designed for use in commercial buildings, apartment buildings and other areas where a general purpose enclosure is applicable. The breaker is front operable and is capable of being padlocked in either the ON or OFF position. Ratings through 1200 amperes are listed with Underwriters Laboratories as approved for service entrance application. Both surface and flush mounted enclosures are available.

Type 3R Rainproof Surface Mounting

- Interchangeable hubs (through 400 amperes)
- 15–1200 ampere range
- 600 Vac, 500 Vdc

This general purpose outdoor service center employs a circuit breaker inside a weatherproof sheet steel breaker enclosure to serve as a main disconnect and protective device for feeder circuits. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

Type 12 Dustproof Surface Mounting

- No knockouts or other openings
- 15–1200 ampere range
- 600 Vac, 500 Vdc

The Type 12 enclosure is designed in line with specifications for special industry applications where unusually severe conditions involving oil, coolant, dust and other foreign materials exist in the operating atmosphere. The handle padlocks in the OFF position and the cover is interlocked with the handle mechanism to prevent opening the cover with the circuit breaker in the ON position. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

Enclosure Selection Data

Breaker Frame Amperes	Enclosure Type Class	Catalog Number
FG 15–225	Type 1	**SFDN225**
	Type 3R	**RFDN225**
	Type 12	**JFDN225**
JG 175–250	Type 1	**SJDN250**
	Type 3R	**RJDN250**
	Type 12	**JJDN250**
KG 300–400	Type 1	**SKDN400**
	Type 3R	**RKDN400**
	Type 12	**JKDN400**
LG 450–600	Type 1	**SLDN600**
	Type 3R	**RLDN600**
	Type 12	**JLDN600**
NG 700–1200	Type 1	**SNDN1200**
	Type 3R	**RNDN1200**
	Type 12	**JNDN1200**

Options and Accessories

Standard Terminals

Breaker Frame	Max. Amp Rating	AWG Wire Range	Metric Wire Range mm^2	Catalog Number
FG	100	14–1/0	2.5–50	**3T100FB** ①
FG	150	4–4/0	25–95	**3TA225FD** ①
JG	250	4–350 kcmil	25–185	**TA250KB**
KG	350	250–500 kcmil	120–240	**TA350K**
KG	400	3/0–250 kcmil (2)	95–120	**3TA400K** ①
LG	600	250–500 kcmil (2)	120–240	**3TA603LDK**
NG	700	1–500 kcmil (2)	50–300	**TA700NB1**
NG	1000	3/0–400 kcmil (3)	95–185	**TA1000NB1**
NG	1200	4/0–500 kcmil (4)	120–300	**TA1200NB1**

Neutral Kits, Insulated and Groundable

Max. Enclosure Rating (Amperes)	Main Lug Number Size Cu/Al	Ground Lug Size Cu/Al	Catalog Number
100	(1) 14–1/0	(1) 14–1/0	**INK100**
250	(1) 6–350 kcmil	(1) 4–300 kcmil	**INK250**
400	(1) 4–750 kcmil or (2) 1/0–250 kcmil	(1) 4–300 kcmil	**INK400**
600	(2) 250–500 kcmil	(1) 4–300 kcmil	**INK600**
1200	(3) 1/0 to 750 kcmil or (4) 1/0 to 750 kcmil	(1) 6–250 kcmil	**INK1200**

Internal Accessories

Auxiliary Switch ②

		1A-1B		2A-2B
Breaker Frame	Factory Mounted	Field Kit Catalog Number	Factory Mounted	Field Kit Catalog Number
FG ③	A06	**A1X1PK**	A13	**A2X1RPK**
JG	A06	**A1X2PK**	A13	**A2X2PK**
KG	A06	**A1X3PK**	A13	**A2X3PK**
LG	A06	**A1X4PK**	A13	**A2X4PK**
NG	A06	**A1X5PK**	A13	**A2X5PK**

Shunt Trip ②

Breaker Frame	Rating	Factory Mounted	Field Kit Catalog Number
FG ③	12–24 Vdc	S02	**SNT1LP03K**
JG	12–24 Vdc	S42	**SNT2P04K**
KG	12–24 Vdc	S42	**SNT3P04K**
LG	12–24 Vdc	S02	**SNT4LP03K**
NG	12–24 Vdc	S02	**SNT5LP03K**

Notes

① Package of three terminals.
② Other accessories are available. Same as standard frame breakers.
③ Field installation on the FG Frame is not UL listed.

Type LGHDC DC Circuit Breakers—Three-Pole High Interrupting Capacity 65 kAIC at 600 Vdc

Maximum Continuous Ampere Rating at 40 °C	Complete Breaker Catalog Number	Circuit Breaker Frame Only ① Catalog Number	Thermal-Magnetic Trip Unit Catalog Number	Standard Terminals Catalog Number
250	**LGHDC3250FAG**	**LGHDC3630NN**	**LT3250FA**	**TA350LK**
300	**LGHDC3300FAG**	**LGHDC3630NN**	**LT3300FA**	**TA350LK**
350	**LGHDC3350FAG**	**LGHDC3630NN**	**LT3350FA**	**TA350LK**
400	**LGHDC3400FAG**	**LGHDC3630NN**	**LT3400FA**	**TA350LK**
500	**LGHDC3500FAG**	**LGHDC3630NN**	**LT4500FA**	**3TA632LK** ②
600	**LGHDC3600FAG**	**LGHDC3630NN**	**LT3600FA**	**3TA632LK** ②

HLDDC

Type HLDDC DC Circuit Breakers—Three-Pole High Interrupting Capacity 35 kAIC at 600 Vdc

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only ① Catalog Number	Thermal-Magnetic Trip Unit Catalog Number	Standard Terminals Catalog Number
300	**HLDDC3600F**	**LT3300T**	**TA602LD**
350	**HLDDC3600F**	**LT3350T**	**TA602LD**
400	**HLDDC3600F**	**LT3400T**	**TA602LD**
450	**HLDDC3600F**	**LT3450T**	**TA602LD**
500	**HLDDC3600F**	**LT3500T**	**TA602LD**
600	**HLDDC3600F**	**LT3600T**	**3TA603LDK** ②

Type HLDDC DC Circuit Breakers—Two-Pole High Interrupting Capacity 50 kAIC at 250 Vdc ③④

Maximum Continuous Ampere Rating at 40 °C	Complete Breaker Catalog Number
600	**HLDDC20600**
700	**HLDDC20700**
800	**HLDDC20800**
900	**HLDDC20900**
1000	**HLDDC21000**
1200	**HLDDC21200**

Notes

① For complete breaker, order individual frame, trip unit and terminals for field installation.

② Three-pole kit.

③ Includes breaker frame, trip unit and terminals.

④ Four-pole breaker with two poles wired in parallel.

DC Breaker Terminal Wire Ranges

Breaker Frame	Maximum Breaker Ampacity	Terminal Body Material	Wire Type	AWG Wire Range/ Number of Conductors	Metric Wire Range mm^2	Number of Terminals Included	Standard Terminal Catalog Number
EGEDC, EGSDC, EGHDC	100	Aluminum	Cu/Al	14–1/0	2.5–50	3	**3TA125EF**
HFDDC	20	Steel	Cu/Al	14–10 (1)	2.5–4 (1)	3	**3T20FB**
	100	Steel	Cu/Al	14–1/0 (1)	2.5–50 (1)	3	**3T100FB**
	225	Aluminum	Cu/Al	4–4/0 (1)	25–95 (1)	3	**3TA225FD**
JGEDC, JGSDC, JGHDC	250	Stainless steel	Cu	4–350 (1)	25–185 (1)	1	**T250FJ**
HJDDC	250	Aluminum	Cu/Al	4–350 kcmil (1)	25–185 (1)	1	**TA250KB**
HKDDC	225	Aluminum	Cu/Al	3–350 kcmil (1)	35–185 (1)	1	**TA300K**
	350	Aluminum	Cu/Al	250–500 kcmil (1)	120–240 (1)	1	**TA350K**
	400	Aluminum	Cu/Al	3/0–250 kcmil (2)	95–120 (1)	3	**3TA400K**
LGEDC, LGSDC, LGHDC	400	Aluminum	Cu/Al	2–500 (1)	35–240 (1)	1	**TA350LK**
	630	Aluminum	Cu/Al	2–500 kcmil (2)	35–240 (2)	1	**TA632L**
	630	Aluminum	Cu/Al	2–500 kcmil (2)	35–240 (2)	3	**3TA632LK**
HLDDC	500	Aluminum	Cu/Al	3/0–350 kcmil (2)	95–150 (2)	1	**TA602LD**
	600	Aluminum	Cu/Al	400–500 kcmil (2)	185–240 (2)	3	**3TA603LDK**
HMDLDC	600	Aluminum	Cu/Al	1–500 kcmil (2)	—	1	**TA700MA1**
	800	Aluminum	Cu/Al	3/0–400 kcmil (3)	—	1	**TA800MA2**
NBDC	700	Aluminum	Cu/Al	3/0–400 kcmil (3)	95–185 (3)	1	**TA1000NB1**
	800	Aluminum	Cu/Al	3/0–400 kcmil (3)	95–185 (3)	1	**TA1000NB1**
	900	Aluminum	Cu/Al	3/0–400 kcmil (3)	95–185 (3)	1	**TA1000NB1**
	1000	Aluminum	Cu/Al	3/0–400 kcmil (3)	95–185 (3)	1	**TA1000NB1**
	1200	Aluminum	Cu/Al	4/0–500 kcmil (4)	120–240 (4)	1	**TA1200NB1**

Note: RGHDC breakers include six rear connectors as standard.

Molded Case Switches

Eaton's DC molded case switches are used in applications requiring a compact, high-capacity disconnect. They are UL 489 listed and have automatic high instantaneous current protection. These devices do not provide overload protection.

Molded Case Switches

Maximum Continuous Ampere Rating at 40 °C	Interrupting Capacity (Volts DC)	Poles in Series	With Line and Load Terminals Catalog Number	Without Line and Load Terminals Catalog Number
600 Vdc Maximum				
100	42	3	**HFDDC3100KL**	**HFDDC3100KW**
150	42	3	**HFDDC3150KL**	**HFDDC3150KW**
225	42	3	**HFDDC3225KL**	**HFDDC3225KW**
250	65	3	**JGKDC3250KSG**	**JGKDC3250KSW**
250	42	3	**HJDDC3250K**	**HJDDC3250KW**
400	35	3	**HKDDC3400K**	**HKDDC3400KW**
	65	3	**LGKDC3400KSG**	**LGKDC3400KSW**
600	65	3	**LGKDC3630KSG**	**LGKDC3630KSW**
	35	3	**HLDDC3600K**	**HLDDC3600WK**
800	35	3	**HMDLDC3800K**	**HMDLDC3800WK**
500 Vdc Maximum				
100	65	3	**EGK3100KSG**	**EGK3100KSW**
250 Vdc Maximum				
100	50	2	**HFDDC2100KL**	**HFDDC2100KW**
150	50	2	**HFDDC2150KL**	**HFDDC2150KW**
225	50	2	**HFDDC2225KL**	**HFDDC2225KW**
1200	50	①	**HLDDC21200K** ①	**HLDDC21200WK** ①

Note

① Four-pole frame with two-pole connected in parallel.