Contents

Typical K-Frame Circuit Breaker



Description

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K-Frame (70-400 Amperes)

Product Description

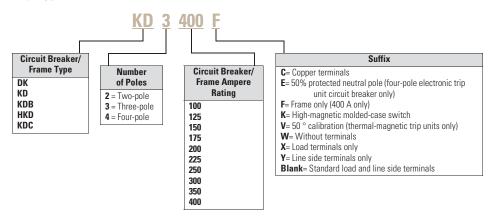
- All Eaton K-Frame circuit breakers are HACR rated
- K-Frame circuit breakers are available as individual components (frame, trip unit, terminals), or factory assembled complete breakers
- K-Frame circuit breakers with non-interchangeable trip units are suitable for reverse feed use

Catalog Number Selection

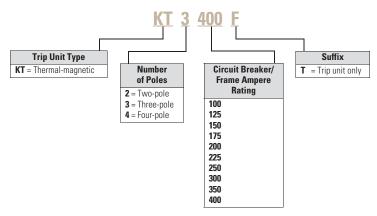
This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

K-Frame with Thermal-Magnetic Trip Unit Technology

Thermal-Magnetic Breakers and Frames ^①



Thermal-Magnetic Trip Unit 10



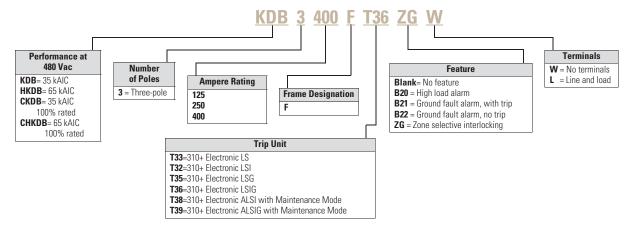
Notes

Trames are the same for thermal-magnetic or 310+ electronic trip units, e.g., KD3400F or HKD3400F.

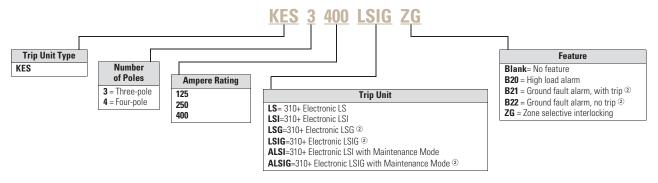
Ampere rating available with electronic trip unit only.

K-Frame with 310+ Electronic Trip Unit Technology ①

310+ Circuit Breakers ②

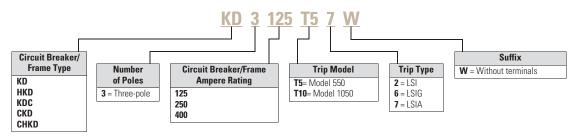


310+ Electronic Trip Units 3



K-Frame with OPTIM Trip Unit Technology

OPTIM Circuit Breakers



- ① Cannot combine 'B2X' suffixes with 'B2X' suffixes.
- ② Not available in four-pole configurations.
- ③ Frames are the same for thermal-magnetic or 310+ electronic trip units, e.g., KD3400F, HKD3400F, etc.

Product Selection

Types KD, HKD and KDC Thermal-Magnetic Circuit Breakers with Interchangeable Trip Units

	Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac	High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac	Ultra High Interrupting Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac	Thermal-Magnetic Trip Unit Only ①	
	Factory Assembled	Factory Assembled	Factory Assembled	•	Standard Terminals Only
Maximum Continuous	Circuit Consisting of Frame, Trip Unit and Terminals ①	Circuit Consisting of Frame, Trip Unit and Terminals ①	Circuit Consisting of Frame, Trip Unit and Terminals ①	For Use with Standard or High or Ultra High Interrupting Frames	See Page V4-T2-309 for Optional Terminals
Ampere Rating at 40 °C	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
Two-Pole					
100	KD2100	HKD2100	KDC2100	KT2100T	TA300K ②
125	KD2125	HKD2125	KDC2125	KT2125T	TA300K ②
150	KD2150	HKD2150	KDC2150	KT2150T	TA300K ②
175	KD2175	HKD2175	KDC2175	KT2175T	TA300K ②
200	KD2200	HKD2200	KDC2200	KT2200T	TA300K ②
225	KD2225	HKD2225	KDC2225	KT2225T	TA300K ②
250	KD2250	HKD2250	KDC2250	KT2250T	TA350K ②
300	KD2300	HKD2300	KDC2300	KT2300T	TA350K ②
350	KD2350	HKD2350	KDC2350	KT2350T	TA350K ②
400	KD2400	HKD2400	KDC2400	KT2400T	2TA400K ³
Three-Pole					
100	KD3100	HKD3100	KDC3100	KT3100T	TA300K ②
125	KD3125	HKD3125	KDC3125	KT3125T	TA300K ②
150	KD3150	HKD3150	KDC3150	KT3150T	TA300K ②
175	KD3175	HKD3175	KDC3175	KT3175T	TA300K ②
200	KD3200	HKD3200	KDC3200	KT3200T	TA300K ②
225	KD3225	HKD3225	KDC3225	KT3225T	TA300K ②
250	KD3250	HKD3250	KDC3250	KT3250T	TA350K ②
300	KD3300	HKD3300	KDC3300	KT3300T	TA350K ②
350	KD3350	HKD3350	KDC3350	KT3350T	TA350K ②
400	KD3400	HKD3400	KDC3400	KT3400T	3TA400K 3
Four-Pole					
100	KD4100	HKD4100	KDC4100	KT3100T	TA300K ②
125	KD4125	HKD4125	KDC4125	KT3125T	TA300K ②
175	KD4175	HKD4175	KDC4175	KT3175T	TA300K ②
200	KD4200	HKD4200	KDC4200	KT3200T	TA300K ②
225	KD4225	HKD4225	KDC4225	KT3225T	TA300K ②
250	KD4250	HKD4250	KDC4250	KT3250T	TA350K ②
300	KD4300	HKD4300	KDC4300	KT3300T	TA350K ②
350	KD4350	HKD4350	KDC4350	KT3350T	TA350K ②
400	KD4400	HKD4400	KDC4400	KT3400T	4TA400K ^③

- $^{\scriptsize \textcircled{\tiny 1}}$ Magnetic trip adjustable 5–10 times continuous ampere rating.
- Individually packed.
- ③ 2TA400K, 3TA400K and 4TA400K terminal kits contain one terminal for each pole and one terminal cover.

Types KD, HKD and KDCThermal-Magnetic Circuit Breakers-Frame Only

Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac	High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac	Ultra High Interrupting Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac
Catalog Number	Catalog Number	Catalog Number
Two-Pole		
KD2400F	HKD2400F	KDC2400F
Three-Pole		
KD3400F	HKD3400F	KDC3400F
Four-Pole		
KD4400F	HKD4400F	KDC4400F

Types KD, HKD and KDC Electronic Circuit Breakers with Interchangeable 310+ Trip Units

Order as individual components: breaker frame, trip unit and terminals. See 310+ adjustability specifications on Page V4-T2-312.

Types KD, HKD and KDC Electronic Circuit Breakers with Interchangeable 310+Trip Units - Three-Pole

	Circuit Breake	r Frame Only		Digitrip RMS 31	10+ Trip Unit Only 1				
			Ultra High	Standard	Options				
			Interrupting	LS	LSI	LSG	LSIG		
Max. Cont. Ampere Rating at 40 °C	Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac Catalog Numbo	High Interrupting Capacity 600 Vac Rated 65 KAIC at 480 Vac	Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac	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	Neutral CT for LSG and LSIG ②③ Catalog Number	Terminal Information
125	KD3400F	HKD3400F	KDC3400F	KES3125LS	KES3125LSI	KES3125LSG	KES3125LSIG	LGFCT125	See Page
250	KD3400F	HKD3400F	KDC3400F	KES3250LS	KES3250LSI	KES3250LSG	KES3250LSIG	LGFCT250	V4-T2-309
400	KD3400F	HKD3400F	KDC3400F	KES3400LS	KES3400LSI	KES3400LSG	KES3400LSIG	LGFCT400	=

Types KD, HKD and KDC Electronic Circuit Breakers with Interchangeable 310+Trip Units—Four-Pole 👀

	Circuit Breake	er Frame Only		Digitrip RMS 31	10+ Trip Unit Only 1				
			Ultra High	Standard	Options				
			Interrupting	LS	LSI	LSG	LSIG		
Max. Cont. Ampere Rating at 40 °C	Standard Interrupting Capacity 600 Vac Rated 35 kAIC at 480 Vac Catalog Numb	High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac er	Capacity Current Limiting 600 Vac Rated 100 kAIC at 480 Vac	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	Neutral CT for LSG and LSIG ②③ Catalog Number	Terminal Information
125	KD4400F	HKD4400F	KDC4400F	KES4125LS	KES4125LSI	_	_	_	See Page
250	KD4400F	HKD4400F	KDC4400F	KES4250LS	KES4250LSI	_	_	_	V4-T2-309
400	KD4400F	HKD4400F	KDC4400F	KES4400LS	KES4400LSI	_	_	_	

- 1 For AC use only.
- $\ ^{\textcircled{2}}\ \ \text{Required}$ for four-wire systems if neutral protection is desired.
- Included with LSG and LSIG trip units.
- Trip unit includes protected neutral pole. Use corresponding three-pole trip unit if protected neutral pole is not required.
- 9 Fully rated neutral pole protection is standard. For 50% rated protection on neutral pole, add Suffix E to four-pole trip unit catalog number.

Type KDB with Digitrip 310+ Non-Interchangeable Trip Unit Suitable for Reverse Feed

See 310+ adjustability specifications on Page V4-T2-312.

		Factory Assembled Circu	Factory Assembled Circuit Breaker Consisting of Frame and Trip Unit Less Terminals $^{\odot}$								
		Standard	Optional								
		LS	LSI	LSG	LSIG						
Maximum Continuous Ampere Rating at 40 °C	Number of Poles	Adjustable Short Time Pickup with I ² t Short Delay Ramp Catalog Number	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 Ground Fault Protection	Neutral CT for LSG and LSIG ©3 Catalog Number	Terminal Information				
125	3	KDB3125FT33W	KDB3125FT32W	KDB3125FT35W	KDB3125FT36W	LGFCT125	See Page				
250	3	KDB3250FT33W	KDB3250FT32W	KDB3250FT35W	KDB3250FT36W	LGFCT250	V4-T2-310				
400	3	KDB3400FT33W	KDB3400FT32W	KDB3400FT35W	KDB3400FT36W	LGFCT400	-				

Type HKDB with Digitrip 310+ Non-Interchangeable Trip Unit Suitable for Reverse Feed

See 310+ adjustability specifications on Page V4-T2-312.

		Factory Assembled Circu	Factory Assembled Circuit Breaker Consisting of Frame and Trip Unit Less Terminals ①							
		Standard LS	Optional LSI	LSG	LSIG					
Maximum Continuous Ampere Rating at 40 °C	Number of Poles	Adjustable Short Time Pickup with I ² t Short Delay Ramp Catalog Number	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 Ground Fault Protection	Neutral CT for LSG and LSIG 23 Catalog Number	Terminal Information			
125	3	HKDB3125FT33W	HKDB3125FT32W	HKDB3125FT35W	HKDB3125FT36W	LGFCT125	See Page			
250	3	HKDB3250FT33W	HKDB3250FT32W	HKDB3250FT35W	HKDB3250FT36W	LGFCT250	V4-T2-310			
400	3	HKDB3400FT33W	HKDB3400FT32W	HKDB3400FT35W	HKDB3400FT36W	LGFCT400				

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.

100% Rated Types CKD and CHKD Electronic Circuit Breakers—Three-Pole

See 310+ adjustability specifications on Page V4-T2-312.

	Circuit Breaker	Frame Only	Digitrip RMS 31	0+ Trip Unit Only				
			Standard	Options				
Maximum Continuous Ampere Rating at 40°C	Standard Interrupting Capacity 35 kAIC at 480 Vac Catalog Numbe	High Interrupting Capacity 65 kAIC at 480 Vac	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	Neutral CT for LSG and LSIG ©3 Catalog Number	Terminal Information
at 70 C	Catalog Nullibe	'					Catalog Nulliber	illioilliation
125	CKD3400F	CHKD3400F	KES3125LS	KES3125LSI	KES3125LSG	KES3125LSIG	LGFCT125	See Page
250	CKD3400F	CHKD3400F	KES3250LS	KES3250LSI	KES3250LSG	KES3250LSIG	LGFCT250	V4-T2-309
400	CKD3400F	CHKD3400F	KES3400LS	KES3400LSI	KES3400LSG	KES3400LSIG	LGFCT400	=

- ① For AC use only.
- ② Required for four-wire systems if neutral protection is desired.
- ③ Included with LSG and LSIG trip units.

Types DK and KDB Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units Suitable for reverse feed application.

Types DK and KDB Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Maximum Continuous Ampere	240 Vac Rated, 250 Vdc Complete Circuit Breaker Without Line and Load Terminals	With Line Terminals Only	With Standard Line and Load Terminals Only	600 Vac Rated, 250 Vdc Complete Circuit Breaker Without Line and Load Terminals	With Standard Line and Load Terminals
Rating at 40 °C	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
Two-Pole					
100	_	_	_	KDB2100W	KDB2100
125	_	_	_	KDB2125W	KDB2125
150	_	_	_	KDB2150W	KDB2150
175	_	_	_	KDB2175W	KDB2175
200	_	_	_	KDB2200W	KDB2200
225	_	_	_	KDB2225W	KDB2225
250	DK2250W	DK2250Y	DK2250	KDB2250W	KDB2250
300	DK2300W	DK2300Y	DK2300	KDB2300W	KDB2300
350	DK2350W	DK2350Y	DK2350	KDB2350W	KDB2350
400	DK2400W	DK2400Y	DK2400	KDB2400W	KDB2400
Three-Pole					
100	_	_	_	KDB3100W	KDB3100
125	_	_	_	KDB3125W	KDB3125
150	_	_	_	KDB3150W	KDB3150
175	_	_	_	KDB3175W	KDB3175
200	_	_	_	KDB3200W	KDB3200
225	_	_	_	KDB3225W	KDB3225
250	DK3250W	DK3250Y	DK3250	KDB3250W	KDB3250
300	DK3300W	DK3300Y	DK3300	KDB3300W	KDB3300
350	DK3350W	DK3350Y	DK3350	KDB3350W	KDB3350
400	DK3400W	DK3400Y	DK3400	KDB3400W	KDB3400

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

	240 Vac Maximum, 250 Vdc	600 Vac Maximum, 250 Vdc	600 Vac Maximum, 250 Vdc
Maximum Continuous Ampere	Complete Circuit Breaker with Standard Line and Load Terminals	Complete Circuit Breaker with Standard Line and Load Terminals	Complete Circuit Breaker with Standard Line and Load Terminals. Suitable for Reverse Feed Use
Rating at 40 °C	Catalog Number	Catalog Number	Catalog Number
Two-Pole			
400	DK2400K	KD2400K	KDB2400K
	_	HKD2400K	HKDB2400K
Three-Pole			
400	DK3400K	KD3400K	KDB3400K
	_	HKD3400K	HKDB3400K
Four-Pole			
400	_	KD4400K	KDB4400K
	_	HKD4400K	HKDB4400K

Note

Molded case switches may open above 4000 amperes.

Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug

Order as individual components: breaker frame (which includes trip unit), rating plug, terminals.

Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug

3p	550 Electronic Circuit Brea			Divitala ODTI	M D - 4' Dl Ol
Maximum Continuous	S – Adjustable Short De I – Adjustable Instantar G – Adjustable Ground F A – Adjustable Ground F OPTIM 550 ®	ay Pickup (I _r) with Adjustable Long lay Pickup with Adjustable Short D leous Pickup ault Pickup with Adjustable Groun ault Alarm with Adjustable Ground	Digitrip OPTI		
Ampere	LSI	LSIG	LSIA		Fixed Rating Plug
Rating at 40 °C	Catalog Number	Catalog Number	Catalog Number	Ampere Rating	Catalog Number
hree-Pole Standa	ard Interrupting Capacity 600 Vac	Rated 35 kAIC at 480 Vac			
125	KD3125T52W	KD3125T56W	KD3125T57W	70	ORPK125A70
				90	ORPK125A90
				100	ORPK125A100
				110	ORPK125A110
				125	ORPK125A125
50	KD3250T52W	KD3250T56W	KD3250T57W	125	ORPK025A125
				150	ORPK025A150
				175	ORPK025A175
				200	ORPK025A200
				225	ORPK025A225
				250	ORPK025A250
00	KD3400T52W	KD3400T56W	KD3400T57W	200	ORPK40A200
				225	ORPK40A225
				250	ORPK40A250
				300	ORPK40A300
				350	ORPK40A350
				400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

② Zone interlocking, PowerNet, or both features can be added at the factory by adding suffixes **ZG**, **PN** or **ZGP** respectively to above catalog number.

Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Circuit Breaker Frame Only

Digitrip OPTIM Rating Plug Only

- $\begin{array}{l} L-\text{Adjustable Long Delay Pickup (I_r) with Adjustable Long Delay Time (I^2t or I^4t Response)} \ \, \odot \\ S-\text{Adjustable Short Delay Pickup with Adjustable Short Delay Time (I^2t or Flat Response)} \ \, I-\text{Adjustable Instantaneous Pickup} \end{array}$

- G Adjustable Ground Fault Pickup with Adjustable Ground Fault Time (I²t or Flat Response)
- $\textbf{A}-\textbf{Adjustable Ground Fault Alarm with Adjustable Ground Fault Time (I}^{2}\textbf{t or Flat Response})$

Maximum Continuous Ampere Rating at 40 °C	OPTIM 550 © LSI Catalog Number	LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole Hig	h Interrupting Capacity 6	00 Vac Rated 65 kAIC at 480 \	/ac		
125	HKD3125T52W	HKD3125T56W	HKD3125T57W	70	ORPK125A70
				90	ORPK125A90
				100	ORPK125A100
				110	ORPK125A110
				125	ORPK125A125
250	HKD3250T52W	HKD3250T56W	HKD3250T57W	125	ORPK025A125
				150	ORPK025A150
				175	ORPK025A175
				200	ORPK025A200
				225	ORPK025A225
				250	ORPK025A250
400	HKD3400T52W	HKD3400T56W	HKD3400T57W	200	ORPK40A200
				225	ORPK40A225
				250	ORPK40A250
				300	ORPK40A300
				350	ORPK40A350
				400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

² Zone interlocking, PowerNet, or both features can be added at the factory by adding suffixes **ZG**, **PN** or **ZGP** respectively to above catalog number.

Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Maximum Continuous Ampere Rating at 40 °C	S – Adjustable Short De I – Adjustable Instanta G – Adjustable Ground F	ay Pickup (I _r) with Adjustable Lon lay Pickup with Adjustable Short I neous Pickup	nd Fault Time (I ² t or Flat Response)	Digitrip OPTII Ampere Rating	VI Rating Plug Only Fixed Rating Plug Catalog Number
Three-Pole UI	tra High Interrupting Capa	city Current Limiting 600 Vac	Rated 100 kAIC at 480 Vac	. .	
125	KDC3125T52W	KDC3125T56W	KDC3125T57W	70	ORPK125A70
				90	ORPK125A90
				100	ORPK125A100
				110	ORPK125A110
				125	ORPK125A125
250	KDC3250T52W	KDC3250T56W	KDC3250T57W	125	ORPK025A125
				150	ORPK025A150
				175	ORPK025A175
				200	ORPK025A200
				225	ORPK025A225
				250	ORPK025A250
400	KDC3400T52W	KDC3400T56W	KDC3400T57W	200	ORPK40A200
				225	ORPK40A225
				250	ORPK40A250
				300	ORPK40A300
				350	ORPK40A350
				400	ORPK40A400

 $^{^{\}scriptsize \textcircled{1}}$ Long delay $\mathsf{I}^4\mathsf{t}$ response selection limits short delay time to flat response.

② Zone interlocking, PowerNet, or both features can be added at the factory by adding suffixes ZG, PN or ZGP respectively to above catalog number.

Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug

Order as individual components: breaker frame (which includes trip unit), rating plug, terminals.

Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug

Digitrip OPTII	VI 1050 Electronic Circuit Bre	eakers with Interchangeable Rating Plug		
Maximum Continuous Ampere	Circuit Breaker Frame Only L — Adjustable Long Delay Pic S — Adjustable Short Delay Pic I — Adjustable Instantaneous G — Adjustable Ground Fault P A — Adjustable Ground Fault A OPTIM 1050 ② LSIG	Digitrip OP	TIM Rating Plug Only Fixed Rating Plug	
Rating at 40 °C	Catalog Number	Catalog Number	Ampere Rating	Catalog Number
	dard Interrupting Capacity 600 Vac		nauliy	Number
125	KD3125T106W	KD3125T107W	70	ORPK125A70
123			90	ORPK125A90
			100	ORPK125A100
			110	ORPK125A110
			125	ORPK125A125
250	KD3250T106W	KD3250T107W	125	ORPK025A125
			150	ORPK025A150
			175	ORPK025A175
			200	ORPK025A200
			225	ORPK025A225
			250	ORPK025A250
400	KD3400T106W	KD3400T107W	200	ORPK40A200
			225	ORPK40A22
			250	ORPK40A250
			300	ORPK40A300
			350	ORPK40A350
			400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

② Factory sealed.

Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Circuit Breaker Frame Only Digitrip OPTIM Rating Plug Only

 $\begin{array}{l} L - \text{Adjustable Long Delay Pickup (I_r) with Adjustable Long Delay Time (I^2t or I^4t Response)} \odot \\ S - \text{Adjustable Short Delay Pickup with Adjustable Short Delay Time (I^2t or Flat Response)} \\ I - \text{Adjustable Instantaneous Pickup} \\ G - \text{Adjustable Ground Fault Pickup with Adjustable Ground Fault Time (I^2t or Flat Response)} \\ A - \text{Adjustable Ground Fault Alarm with Adjustable Ground Fault Time (I^2t or Flat Response)} \\ \end{array}$

Maximum Continuous Ampere Rating at 40 °C	OPTIM 1050 [©] LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole H	igh Interrupting Capacity 600 Va	c Rated 65 kAIC at 480 Vac		
125	HKD3125T106W	HKD3125T107W	70	ORPK125A70
			90	ORPK125A90
			100	ORPK125A100
			110	ORPK125A110
			125	ORPK125A125
250	HKD3250T106W	HKD3250T107W	125	ORPK025A125
			150	ORPK025A150
			175	ORPK025A175
			200	ORPK025A200
			225	ORPK025A225
			250	ORPK025A250
100	HKD3400T106W	HKD3400T107W	200	ORPK40A200
			225	ORPK40A225
			250	ORPK40A250
			300	ORPK40A300
			350	ORPK40A350
			400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

² Factory sealed.

Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Circuit Breaker Frame Only Digitrip OPTIM Rating Plug Only

 $\begin{array}{l} L-\text{Adjustable Long Delay Pickup (I_r) with Adjustable Long Delay Time (I^2t or I^4t Response)} \\ \mathbb{S}-\text{Adjustable Short Delay Pickup with Adjustable Short Delay Time (I^2t or Flat Response)} \\ \mathbb{I}-\text{Adjustable Instantaneous Pickup} \end{array}$

G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Time (I²t or Flat Response)
A – Adjustable Ground Fault Alarm with Adjustable Ground Fault Time (I²t or Flat Response)

Maximum

Maximum Continuous Ampere Rating at 40°C	OPTIM 1050 [©] LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
hree-Pole Ult	ra High Interrupting Capacity Cur	ent Limiting 600 Vac Rated 100 kAIC at 480 Vac		
25	KDC3125T106W	KDC3125T107W	70	ORPK125A70
			90	ORPK125A90
			100	ORPK125A100
			110	ORPK125A110
			125	ORPK125A125
50	KDC3250T106W	KDC3250T107W	125	ORPK025A125
		150	ORPK025A150	
			175	ORPK025A175
			200	ORPK025A200
			225	ORPK025A225
			250	ORPK025A250
00	KDC3400T106W	KDC3400T107W	200	ORPK40A200
			225	ORPK40A225
			250	ORPK40A250
			300	ORPK40A300
			350	ORPK40A350
			400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

② Factory sealed.

100% Rated Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug

Order as individual components: breaker frame (which includes trip unit), rating plug, terminals.

100% Rated Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug

Maximum Continuous Impere Rating It 40°C	S – Adjustable Short Dela I – Adjustable Instantane G – Adjustable Ground Fai	<i>,</i> [,] Pickup (I _r) with Adjustable Long Dela y Pickup with Adjustable Short Delay 1	ime (I ² t or Flat Response) t Time (I ² t or Flat Response)	Digitrip OP [*] Ampere Rating	Fixed Rating Plug Fixed Rating Plug Catalog Number
		600 Vac Rated 35 kAIC at 480 Vac		nating	INUMBE
25	CKD3125T52W	CKD3125T56W	CKD3125T57W	70	ORPK125A70
				90	ORPK125A90
				100	ORPK125A100
				110	ORPK125A110
				125	ORPK125A125
50	CKD3250T52W	CKD3250T56W	CKD3250T57W	125	ORPK025A125
				150	ORPK025A150
				175	ORPK025A175
				200	ORPK025A200
				225	ORPK025A225
				250	ORPK025A250
00	CKD3400T52W	CKD3400T56W	CKD3400T57W	200	ORPK40A200
				225	ORPK40A225
				250	ORPK40A250
				300	ORPK40A300
				350	ORPK40A350
				400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

② Zone interlocking, PowerNet, or both features can be added at the factory by adding suffixes ZG, PN or ZGP respectively to above catalog number (refer to Page V4-T2-423).

100% Rated Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Circuit Breaker Frame Only

- L- Adjustable Long Delay Pickup (l_r) with Adjustable Long Delay Time $(l^2t\ or\ l^4t\ Response)\ ^{\scriptsize \textcircled{\tiny 3}}-$ Adjustable Short Delay Pickup with Adjustable Short Delay Time $(l^2t\ or\ Flat\ Response)$
- I Adjustable Instantaneous Pickup G Adjustable Ground Fault Pickup with Adjustable Ground Fault Time (I²t or Flat Response)
- $\textbf{A}-\textbf{Adjustable Ground Fault Alarm with Adjustable Ground Fault Time (I2t or Flat Response)}$

Maximum Continuous	OPTIM 550 ©							
Continuous Ampere	LSI	LSIG	LSIA		Fixed Rating Plug			
Rating at 40 °C	Catalog Number	Catalog Number	Catalog Number	Ampere Rating	Catalog Number			
Γhree-Pole Hi	gh Interrupting Capacity 600	Vac Rated 65 kAIC at 480 Vac						
25	CHKD3125T52W	CHKD3125T56W	CHKD3125T57W	70	ORPK125A70			
				90	ORPK125A90			
				100	ORPK125A100			
				110	ORPK125A110			
				125	ORPK125A125			
50	CHKD3250T52W	CHKD3250T56W	CHKD3250T57W	125	ORPK025A125			
				150	ORPK025A150			
					175	ORPK025A175		
				200	ORPK025A200			
				225	ORPK025A225			
				250	ORPK025A250			
00	CHKD3400T52W	CHKD3400T56W	CHKD3400T57W	200	ORPK40A200			
				225	ORPK40A225			
				250	ORPK40A250			
				300	ORPK40A300			
				350	ORPK40A350			
				400	ORPK40A400			

Digitrip OPTIM Rating Plug Only

① Long delay I⁴t response selection limits short delay time to flat response.

② Zone interlocking, PowerNet, or both features can be added at the factory by adding suffixes ZG, PN or ZGP respectively to above catalog number.

400

ORPK40A400

100% Rated Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug

Order as individual components: breaker frame (which includes trip unit), rating plug, terminals.

100% Rated	Digitrip OPTIM 1050 Electron	ic Circuit Breakers with Interchangeable Rating Plug		
Maximum Continuous	S – Adjustable Short Delay Pickup w I – Adjustable Instantaneous Pickup G – Adjustable Ground Fault Pickup v	with Adjustable Long Delay Time (I ² t or I ⁴ t Response) ^① ith Adjustable Short Delay Time (I ² t or Flat Response) with Adjustable Ground Fault Time (I ² t or Flat Response) ith Adjustable Ground Fault Time (I ² t or Flat Response) LSIA	Digitrip OP1	TIM Rating Plug Only Fixed Rating Plug
Ampere Rating	Catalog	Catalog	Ampere	Catalog
at 40 °C	Number	Number	Rating	Number
hree-Pole St	andard Interrupting Capacity 600 Vac	c Rated 35 kAIC at 480 Vac		
25	CKD3125T106W	CKD3125T107W	70	ORPK125A70
			90	ORPK125A90
			100	ORPK125A100
			110	ORPK125A110
			125	ORPK125A125
50	CKD3250T106W	CKD3250T107W	125	ORPK025A125
			150	ORPK025A150
			175	ORPK025A175
			200	ORPK025A200
			225	ORPK025A225
			250	ORPK025A250
00	CKD3400T106W	CKD3400T107W	200	ORPK40A200
			225	ORPK40A225
			250	ORPK40A250
			300	ORPK40A300
			350	ORPK40A350

① Long delay I⁴t response selection limits short delay time to flat response.

② Factory sealed.

100% Rated Digitrip OPTIM 1050 Electronic Circuit Breakers with Interchangeable Rating Plug, continued

Circuit Breaker Frame Only Digitrip OPTIM Rating Plug Only

 $\begin{array}{l} L \ - \ Adjustable\ Long\ Delay\ Pickup\ (I_r)\ with\ Adjustable\ Long\ Delay\ Time\ (I^2t\ or\ I^4t\ Response)\ \odot \\ S \ - \ Adjustable\ Short\ Delay\ Time\ (I^2t\ or\ Flat\ Response)\ \\ I \ - \ Adjustable\ Instantaneous\ Pickup\ with\ Adjustable\ Ground\ Fault\ Time\ (I^2t\ or\ Flat\ Response)\ \\ G \ - \ Adjustable\ Ground\ Fault\ Aljustable\ Ground\ Fault\ Time\ (I^2t\ or\ Flat\ Response)\ \end{array}$

Maximum Continuous Ampere Rating at 40°C	OPTIM 1050 ② LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole Hig	gh Interrupting Capacity 600 Vac Rate	ed 65 kAIC at 480 Vac		
25	CHKD3125T106W	CHKD3125T107W	70	ORPK125A70
			90	ORPK125A90
			100	ORPK125A100
			110	ORPK125A110
			125	ORPK125A125
0	CHKD3250T106W	CHKD3250T107W	125	ORPK025A125
			150	ORPK025A150
		175	ORPK025A175	
			200	ORPK025A200
			225	ORPK025A225
			250	ORPK025A250
00	CHKD3400T106W	CHKD3400T107W	200	ORPK40A200
			225	ORPK40A225
			250	ORPK40A250
			300	ORPK40A300
			350	ORPK40A350
			400	ORPK40A400

① Long delay I⁴t response selection limits short delay time to flat response.

② Factory sealed.

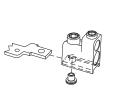
Accessories Selection Guide and Ordering Guide

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. 65, or Electrical Bulletin 1165. Unless otherwise specified, K-Frame circuit breaker line and load terminals are shipped separately for field installation.

Ordering Information

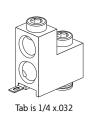
K-Frame circuit breakers use Cu/AI terminals as standard. When optional copper or Cu/AI terminals are required, order by catalog number. Specify if factory installation is required.

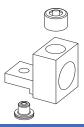












TA401K TA400K, T400K TA350K, T350K TA300K, T300K T400KCW, TA400KCW, TA402K, T402K TA401KCW

Line and Load Terminals

Maximum	Terminal		AWG Wire		Terminal	Terminals with Control Wire Termination
Breaker Amperes	Body Material	Body Wire	Range/No. Conductors	Metric Wire Range mm ²	Catalog Number	Catalog Number
Standard Cu/Al	Pressure Terminals					
225	Aluminum	Cu/AI	3-350 (1)	35–185	TA300K ①	_
400	Aluminum	Cu/AI	250-500 (1)	120-240	TA350K ①	_
400	Aluminum	Cu/AI	3/0-250 (2)	95–120	2TA400K @3	2TA400KCW 23
400	Aluminum	Cu/AI	3/0-250 (2)	95–120	3TA400K 24	3TA400KCW 24
400	Aluminum	Cu/AI	3/0-250 (2)	95–120	4TA400K ©6	4TA400KCW 56
Optional Coppe	er and Cu/Al Pressure Ty	pe Terminals				
225	Copper	Cu	3-350 (1)	35–185	T300K ^①	_
400	Copper	Cu	250-500 (1)	120-240	T350K ①	_
400	Copper	Cu	3/0-250 (2)	95–120	2T400K ^③	2T400KCW 23
					3T400K ④	3T400KCW 24
					4T400K ®	4T400KCW § 6
400	Aluminum	Cu/AI	2/0-250 (2)	70–120	2TA401K 23	2TA401KCW 23
			or 2/0–500 (1)	70–240	3TA401K 24	3TA401KCW 24
			_, = === (· ,	70–240	4TA401K 66	4TA401KCW 66
400	Aluminum	Cu/AI	500-750 (1)	300-400	2TA402K 23	_
					3TA402K 24	_
					4TA402K ®®	_
400	Copper	Cu	500-750 (1)	_	2T402K ②3	_
					3T402K ②④	— .
					4T402K ®®	_

- 1 Individually packed.
- Terminal kits contain one terminal for each pole and one terminal cover.
- ③ Two-pole kit.
- Three-pole kit.
- $^{\scriptsize{\textcircled{6}}}$ Four-pole kit.
- ® Terminal kits contain one terminal for each pole and three interphase barriers.

Accessories

Allowable Accessory Combinations

Different combinations of accessories can be supplied, depending on the types of accessories and the number of poles in the circuit breaker.

KD Frame Accessories

	Reference	Two-P	ole ①	Three-	Pole		Four-P	ole		
Description	Page	Left	Right	Left	Center	Right	Left	Center	Right	Neutral
Internal Accessories (Only One Internal Accessory Per Pole)										
Alarm lockout (Make/Break)	V4-T2-406	_			_			_	_	_
Alarm lockout (2Make/2Break)	V4-T2-406	_	_		_			_	_	_
Auxiliary switch (1A, 1B)	V4-T2-408	_			_			_		_
Auxiliary switch (2A, 2B)	V4-T2-408									_
Auxiliary switch (3A, 3B)	V4-T2-408	_								_
Auxiliary switch and alarm switch combination	V4-T2-409									
Shunt trip—standard ②	V4-T2-412									_
Shunt trip—low energy ②	V4-T2-415								_	_
Undervoltage release mechanism ②	V4-T2-420								_	
PowerNet or zone interlock kit (OPTIM 550)	V4-T2-423			_					_	
External Accessories										
End cap kit	V4-T2-440	•	•	•	•	•	•	•	•	•
Keeper nut	V4-T2-440	•	•	•	•	•	•	•	•	•
Control wire terminal kit	V4-T2-441	•	•	•	•	•	•	•	•	•
Terminal adapter	V4-T2-441	•	•	•	•	•	•	•	•	•
Multiwire connectors	V4-T2-442	•	•	•	•	•	•	•	•	•
Rear fed terminals	V4-T2-442	•	•	•	•	•	•	•	•	•
Base mounting hardware	V4-T2-443	•	•	•	•	•	•	•	•	•
Terminal shields	V4-T2-445	•	•	•	•	•	•	•	•	•
Interphase barriers	V4-T2-445	•	•	•	•	•	•	•	•	•
Non-padlockable handle block	V4-T2-446				Ť					
Padlockable handle block	V4-T2-446					_			_	_
Padlockable handle lock hasp	V4-T2-447									_
Cylinder lock	V4-T2-447									
Key Interlock kit	V4-T2-448									_
Sliding bar interlock—requires two breakers	V4-T2-449			•	•	•				_
Walking beam interlock—requires two breakers	V4-T2-449	_	_	•	•	•	•	•	•	•
Electrical (solenoid) operator	V4-T2-450		_	•	•	•	•	•	•	•
Plug-in adapters	V4-T2-451	•	•	•	•	•	•	•	•	•
Rear connecting studs	V4-T2-453	•	•	•	•	•	•	•	•	•
Panelboard connecting straps	V4-T2-454	•	•	•	•	•	•	•	•	•
Handle mechanisms	V4-T2-534	•	•	•	•	•	•	•	•	•
Handle extension	V4-T2-546	•	•	•	•	•	•	•	•	•
IQ Energy Sentinel	V4-T2-456			•	•	•	•	•	•	•
Solid-state (electronic) portable test kit	V4-T2-456	•	•	•	•	•	•	•	•	•
OPTIM System Components Three Poles										
Breaker interface module (BIM)	V4-T2-457						_			
Digitrip OPTIMizer	V4-T2-457									
Auxiliary power module	V4-T2-457									
Modifications (Refer to Eaton)										
Special calibration	_	•	•	•	•	•	•	•	•	•
Moisture fungus treatment	V4-T2-246	•	•	•	•	•	•	•	•	•
Freeze-tested circuit breakers	_	•	•	•	•	•	•	•	•	•
Marine/naval application		•	•	•	•	•	•	•	•	•
		-	-	-	-	-		_	_	

Legend

- Applicable in indicated pole position
- ☐ May be mounted on left or right pole—not both
- Accessory available/modification available

- $^{\scriptsize\textcircled{\tiny{1}}}$ Two-pole breaker supplied in three-pole frame. Current carrying parts omitted from center pole.
- ② Shunt trip and UVR cannot be mounted in right poles on KES or OPTIM trip units. Standard internal accessories cannot be mounted in right pole on any K-Frame OPTIM trip units. Special OPTIM ground fault and zone interlock accessories are available for field installation in the right pole of K-Frame 550 OPTIM trip units. Factory installed 2a/2b and bell/aux are available for factory installation. K-Frame breakers equipped with OPTIM 1050 trip units include aux-bell alarm in the right pole.

310+ Electronic Trip Unit Accessories

Description	Catalog Number
Electronic portable test kit	MTST230V ①
Trip unit tamper protection wire seal	5108A03H01
External neutral sensor, 400 A	LGFCT400 ^②
External neutral sensor, 250 A	LGFCT250 ^②
External neutral sensor, 125 A	LGFCT125 ²
Breaker-mount cause-of-trip indication	TRIP-LED
Breaker-mount ammeter module	DIGIVIEW
Remote-mount ammeter module	DIGIVIEWR06 3

Technical Data and Specifications

NEMA/UL 489/CSA Interrupting Capacity Ratings

0: :							
Circuit Breaker	Number	Volts AC (5	50/60 Hz)			Volts DC	
Туре	of Poles ⁴	240	277	480	600	250 ⑤⑥	
DK	2, 3	65	_	_	_	10	
KDB	2, 3, 4	65	_	35	25	10	
KD	2, 3, 4	65	_	35	25	10	
HKD, HKDB	2, 3, 4	100	_	65	35	22	
KDC ①	2, 3, 4	200	_	100	65	22	
CKD	3	65	_	35	25	_	
CHKD	3	100	_	65	35	_	

IEC 157-1 (P1) Interrupting Capacity Ratings

Cinania	Interrupting Capacity (kA Symmetrical Amperes)								
Circuit Breaker	Number	Volts AC (50/60 Hz)					Volts DC	Volts DC	
Туре	of Poles 4	240	380	415	440	500	600	250 56	
DK	2, 3	65	_	_	_	_	_	10	
KDB	2, 3, 4	65	40	40	_	_	_	10	
KD	2, 3, 4	65	40	40	_	_	_	10	
HKD, HKDB	2, 3, 4	100	65	65	_	_	_	22	
KDC	2, 3, 4	200	100	100	_	_	_	22	

UL 489 Current Limiting Data

Frame	Circuit	Ip (kA)	I ² T (10 ⁶ A ² S)
KDC	240 V/200 kA	56.00	2.30
KDC	480 V/100 kA	53.30	5.60
KDC	600 V/50 kA	43.40	5.40

- ① MTST230V applies to 100–230 Vac.
- ② Included with all LD LSG and LSIG trip units and breakers.
- $\ ^{\textcircled{3}}$ Includes 6 ft cable for remote mounting; NEMA 3R rated.
- ${}^{\textcircled{4}} \ \ \, \text{Two-pole breaker supplied in three-pole frame. Current carrying parts omitted from center pole.}$
- ⑤ Two-pole circuit breaker or two outside poles of three-pole circuit breaker.
- © Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 22 kA.
- ① Current limiting.

310+ Specifications

Trip Unit Type	Digitrip RMS 310+		
Breaker Type			
Frame	K		
Frames available	125 A, 250 A, 400 A		
Continuous current range (A)	55–400 A		
Ground fault pickup (A)	50-400 A		
Interrupting capacities at 480 Vac (kAIC)	35, 65, 100		
100% rated	Yes		
Protection			
Ordering options	LS, LSI, LSG, LSIG, ALSI, ALSIG		
Arcflash Reduction Maintenance System	Remote enabled on ALSI, ALSIG		
nterchangeable trip unit	Yes		
High load alarm, trip (suffix B20) ①	Yes		
Ground fault alarm with trip (suffix B21) ①	LSG, LSIG, ALSIG		
Ground fault alarm, no trip (suffix B22)	LSG, LSIG, ALSIG		
Zone selective interlock (suffix ZG) ^①	LSI, LSIG, ALSI, ALSIG		
Cause of trip indication	Yes (via TRIP-LED or DIGIVIEW)		
Thru-cover accessories	No		

310+ Adjustability Specifications

	K-Frame			
310+ Settings		125A	250 A	400 A
I _r = continuous current or	lr\ln			
long delay pickup (amperes) (All 310+)	A (=Ir)	55	100	160
	B (=Ir)	60	125	200
	C (=Ir)	70	150	225
	D (=Ir)	80	160	250
	E (=Ir)	90	175	300
	F (=Ir)	100	200	315
	G (=Ir)	110	225	350
	H (=Ir=In)	125	250	400
t _r = long delay time (seconds)	2	2	2	2
(All 310+)	4	4	4	4
	7	7	7	7
	10	10	10	10
	12	12	12	12
	15	15	15	15
	20	20	20	20
	24	24	24	24
I_{sd} (x $I_{r)}$ = short delay pickup (amperes)	Position 1	2	2x	2x
(All 310+)	Position 2	3	3x	3x
	Position 3	4	4x	4x
	Position 4	5	5x	5x
	Position 5	6	6x	6x
	Position 6	7	7x	7x
	Position 7	8	8x	8x
	Position 8	10	10x	10x
	Position 9	12	12x	12x
t _{sd} = short delay time I ² t (milliseconds) (LS and LSG)	Fixed	67 @10x	(
t _{sd} = short delay time flat (milliseconds)	Position 1	Inst		
(LSI, LSIG, ALSI, ALSIG)	Position 2	120		
	Position 3	300		
$I_g (x I_{n}) = ground fault pickup (amperes)$	Position 1	25	50	80
(ĽSG, ĽSIĞ, ALSIG)	Position 2	37.5	75	120
	Position 3	50	100	160
	Position 4	75	150	240
	Position 5	100	200	320
	Position 6	125	250	400
t_g = ground fault delay time (milliseconds)	Position 1	Inst		
(ĽSG, LSIG, ALSIG)	Position 2	120		
	Position 3	300		
Independently adjustable Instantaneous (li) setting	2			
Maintenance Mode pickup (2.5 x I _n) (amperes) (310+ with Maintenance Mode—ALSI and ALSIG)	Fixed	312	625	1000

- ① B2x suffixes cannot be combined with B2x suffixes.
- @ Not available for KD. Independently adjustable $\rm I_i$ setting available in LG, NG and RG ALSI and ALSIG trip units.

Specifications

Trip Unit Type	Digitrip OPTIM 550	Digitrip OPTIM 1050
ms sensing	Yes	Yes
Breaker Type		
rame	K	K
Ampere range	125–400 A	125–400 A
nterrupting rating at 480 volts	35, 65, 100 (kA)	35, 65, 100 (kA)
Protection		
Ordering options	LSI, LSI(A), LSIG	LSI(A), LSIG
Fixed rated plug (I _n)	Yes	Yes
Overtemperature trip	Yes	Yes
Long Delay Protection (L)		
Adjustable rating plug (I _n)	No	No
Long delay pickup	0.4–1.0 x (I _n)	0.4–1.0 x (I _n)
ong delay time l ² t	2-24 seconds	2-24 seconds
Long delay time l ⁴ t	1–5 seconds	1-5 seconds
ong delay thermal memory	Yes	Yes
High load alarm	0.5–1.0 x I _r	0.5–1.0 x I _r
Short Delay Protection (S)		
Short delay pickup	150–800% x (I _r)	150-800% x (I _r)
Short delay time I ² t	100-500 ms	100-500 ms
Short delay time flat	100-500 ms	100-500 ms
Short delay time zone selective interlocking	Yes ①	Yes
Instantaneous Protection (I)		
nstantaneous pickup	200-800% x (I _p)	200-800% x (I _n)
Discriminator	Yes	Yes
nstantaneous override	Yes	Yes
Ground Fault Protection (G)		
Ground fault alarm	20-100% x (I _s)	20-100% x (I _s)
Ground fault pickup	20-100% x (I _s)	20-100% x (I _s)
Ground fault delay I ² t	100–500 ms	100-500 ms
Ground fault delay flat	100-500 ms	100-500 ms
Ground fault zone selective interlocking	Yes ①	Yes
Ground fault thermal memory	Yes	Yes
System Diagnostics		
Status LEDs	Yes	Yes
Cause of trip LEDs	Yes	Yes
Magnitude of trip information	Yes	Yes
Remote signal contact—ground alarm	Yes ①	Yes
Local auxiliary and bell alarm contact	Optional	Included
System Monitoring	·	
Digital display	Yes ②	Yes ②
Current	Yes	Yes
Power and energy	No	Yes
Power quality—harmonics	No	Yes
Power factor	No	Yes
Communications		
PowerNet	Yes ③	Yes
Testing	.55 -	. 30
Testing method	OPTIMizer, BIM, PowerNet	OPTIMizer, BIM, PowerNet
	Or THANKEN, DHALL I OMERIAEL	S. THVILLOI, DIIVI, I OVVGITVGE

Legend

 $\begin{array}{ll} \text{BIM} = \text{Breaker Interface Module} \\ \text{(A)} = & \text{GF Alarm} \\ \text{I}_s = & \text{Sensor Rating} \\ \text{I}_n = & \text{Rating Plug} \\ \text{I}_r = & \text{Long Delay Pickup Setting} \\ \end{array}$

- ① Zone interlock kit.
- ② By OPTIMizer/BIM.
- 3 Eaton's PowerNet kit.

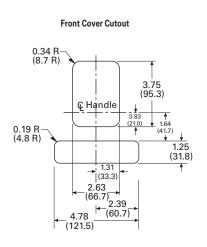
Dimensions and Weights

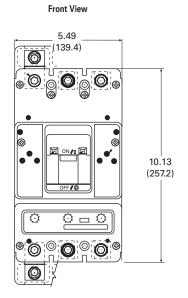
Approximate Dimensions in Inches (mm)

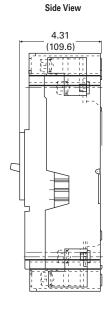
KD Frame

of Poles	Width	Height	Depth	
2, 3	5.50 (149.7)	10.13 (257.3)	4.10 (104.1)	
4	7.22 (183.4)	10.13 (257.3)	4.10 (104.1)	

KD-Frame, Two- and Three-Pole







Approximate Shipping Weight, Lbs (kg)

KD Frame

	Complete Breaker		Frame Only		Trip Unit ①	
Breaker Type	Two-Pole	Three-Pole	Two-Pole	Three-Pole	Two-Pole	Three-Pole
DK	10.0 (4.5)	11.5 (5.2)	_	_	_	_
KDB	10.0 (4.5)	11.5 (5.2)	_	_	_	_
KD	10.0 (4.5)	11.5 (5.2)	7.5 (3.4)	8.5 (3.9)	1.5 (0.7)	1.5 (0.7)
HKD, HKDB	10.0 (4.5)	11.5 (5.2)	7.5 (3.4)	8.5 (3.9)	1.5 (0.7)	1.5 (0.7)
KDC	10.0 (4.5)	11.5 (5.2)	7.5 (3.4)	8.5 (3.9)	1.5 (0.7)	1.5 (0.7)

Note

 $^{^{\}odot}$ Weights shown are for thermal-magnetic trip units. Three-pole electronic trip units weigh 2.5 lbs (1.1 kg).