

Typical N-Frame Breaker

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N-Frame (400–1200 Amperes)

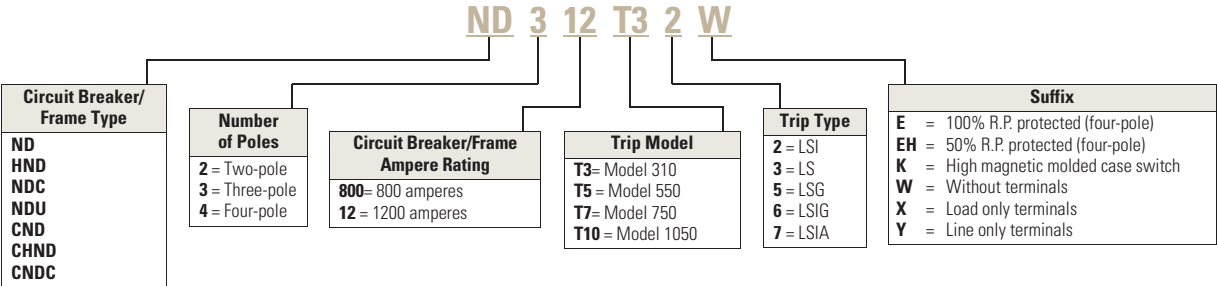
Product Description

- All Eaton N-Frame circuit breakers are suitable for reverse feed use
- All N-Frame circuit breakers are HACR rated

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.

Circuit Breaker/Frame



Product Selection

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Digitrip OPTIM Electronic Circuit Breakers with Interchangeable Rating Plugs

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

Digitrip OPTIM 550 Electronic Circuit Breakers with Interchangeable Rating Plugs

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
	L – Adjustable Long Delay Pickup (I _p) with Adjustable Long Delay Time (I ² t or I ⁴ t Response) ①				
	S – Adjustable Short Delay Pickup with Adjustable Short Delay Time (I ² t or Flat Response)				
	I – Adjustable Instantaneous Pickup				
	G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
	A – Adjustable Ground Fault Alarm with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
	OPTIM 550 ②				
	LSI	LSIG	LSIA		Fixed
	Catalog	Catalog	Catalog	Ampere	Rating Plug
	Number	Number	Number	Rating	Catalog
					Number
Three-Pole Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac					
800	ND3800T52W	ND3800T56W	ND3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200	ND312T52W	ND312T56W	ND312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120
Three-Pole High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac					
800	HND3800T52W	HND3800T56W	HND3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200	HND312T52W	HND312T56W	HND312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120

Notes① 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 Plugs, continued

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
	LSI Catalog Number	LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole Ultra High Interrupting Capacity 600 Vac Rated 100 kAIC at 480 Vac					
800	NDC3800T52W	NDC3800T56W	NDC3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200	NDC312T52W	NDC312T56W	NDC312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120

Notes

① Long delay I^4t 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 Plugs

Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
L– Adjustable Long Delay Pickup (I _L) with Adjustable Long Delay Time (I ² t or I ⁴ t Response) ①				
S– Adjustable Short Delay Pickup with Adjustable Short Delay Time (I ² t or Flat Response)				
I– Adjustable Instantaneous Pickup				
G– Adjustable Ground Fault Pickup with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
A– Adjustable Ground Fault Alarm with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
Maximum Continuous Ampere Rating at 40 °C	OPTIM 1050 ②③			
	LSIG	LSIA		Fixed Rating Plug
	Catalog Number	Catalog Number	Ampere Rating	Catalog Number
Three-Pole Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac				
800	ND3800T106W	ND3800T107W	400	ORPN80A400
			450	ORPN80A450
			500	ORPN80A500
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	ND312T106W	ND312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120
Three-Pole High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac				
800	HND3800T106W	HND3800T107W	400	ORPN80A400
			450	ORPN80A450
			500	ORPN80A500
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	HND312T106W	HND312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120
Three-Pole Ultra High Interrupting Capacity 600 Vac Rated 100 kAIC at 480 Vac				
800	NDC3800T106W	NDC3800T107W	400	ORPN80A400
			450	ORPN80A450
			500	ORPN80A500
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	NDC312T106W	NDC312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120

Notes

- ① Long delay I^4t response selection limits short delay time to flat response.
 ② One Form C auxiliary switch and one Form C bell (trip) alarm switch supplied with breaker as standard.
 ③ Factory sealed.

100% Rated Digitrip OPTIM Circuit Breakers with Interchangeable Rating Plugs

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

100% Rated Digitrip OPTIM 550 Circuit Breakers with Interchangeable Rating Plugs

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
	L – Adjustable Long Delay Pickup (I _l) with Adjustable Long Delay Time (I ² t or I ⁴ t Response) ① S – Adjustable Short Delay Pickup with Adjustable Short Delay Time (I ² t or Flat Response) I – Adjustable Instantaneous Pickup G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Time Delay (I ² t or Flat Response) A – Adjustable Ground Fault Alarm with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
	OPTIM 550 ②				
	LSI Catalog Number	LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac					
800	CND3800T52W	CND3800T56W	CND3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200 ③	CND312T52W	CND312T56W	CND312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120
Three-Pole High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac					
800	CHND3800T52W	CHND3800T56W	CHND3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200 ③	CHND312T52W	CHND312T56W	CHND312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120

Notes

^① Long delay I^4t 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.

^③ Includes conductor extension kit, which increases breaker length 3.75 on each end. Terminal ordered separate.

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

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
	LSI Catalog Number	LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
Three-Pole Ultra High Interrupting Capacity 600 Vac Rated 100 kAIC at 480 Vac					
800	CNDC3800T52W	CNDC3800T56W	CNDC3800T57W	400	ORPN80A400
				450	ORPN80A450
				500	ORPN80A500
				550	ORPN80A550
				600	ORPN80A600
				700	ORPN80A700
				800	ORPN80A800
1200 ^③	CNDC312T52W	CNDC312T56W	CNDC312T57W	600	ORPN12A600
				700	ORPN12A700
				800	ORPN12A800
				1000	ORPN12A100
				1200	ORPN12A120

Notes

^① Long delay I^4t 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.

^③ Includes conductor extension kit, which increases breaker length 3.75 on each end. Terminal ordered separate.

100% Rated Digitrip OPTIM 1050 Circuit Breakers with Interchangeable Rating Plugs

Circuit Breaker Frame Only			Digitrip OPTIM Rating Plug Only	
L – Adjustable Long Delay Pickup (I _L) with Adjustable Long Delay Time (I ² t or I ⁴ t Response) ①				
S – Adjustable Short Delay Pickup with Adjustable Short Delay Time (I ² t or Flat Response)				
I – Adjustable Instantaneous Pickup				
G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
A – Adjustable Ground Fault Alarm with Adjustable Ground Fault Time Delay (I ² t or Flat Response)				
Maximum Continuous Ampere Rating at 40 °C	OPTIM 1050 ②③			
	LSIG	LSIA		Fixed Rating Plug
	Catalog Number	Catalog Number	Ampere Rating	Catalog Number
Three-Pole Standard Interrupting Capacity 600 Vac Rated 50 kAIC at 480 Vac				
800	CND3800T106W	CND3800T107W	400	ORPN80A400
			450	ORPN80A450
			500	ORPN80A500
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	CND312T106W	CND312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120
Three-Pole High Interrupting Capacity 600 Vac Rated 65 kAIC at 480 Vac				
800	CHND3800T106W	CHND3800T107W	400	ORPN80A400
			450	ORPN80A450
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	CHND312T106W	CHND312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120

Notes

- ① Long delay I^4t response selection limits short delay time to flat response.
 ② One Form C auxiliary switch one Form C bell (trip) alarm switch supplied with breaker as standard.
 ③ Factory sealed.

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

Maximum Continuous Ampere Rating at 40 °C	Circuit Breaker Frame Only		Digitrip OPTIM Rating Plug Only	
	LSIG Catalog Number	LSIA Catalog Number	Ampere Rating	Fixed Rating Plug Catalog Number
OPTIM 1050 ^{②③}				
Three-Pole Ultra High Interrupting Capacity 600 Vac Rated 100 kAIC at 480 Vac				
800	CND C3800T106W	CND C3800T107W	400	ORPN80A400
			450	ORPN80A450
			500	ORPN80A500
			550	ORPN80A550
			600	ORPN80A600
			700	ORPN80A700
			800	ORPN80A800
1200	CND C312T106W ^④	CND C312T107W	600	ORPN12A600
			700	ORPN12A700
			800	ORPN12A800
			1000	ORPN12A100
			1200	ORPN12A120

Type ND Molded Case Switches

Type ND High Instantaneous (K)

Continuous Ampere Rating at 40 °C	Three-Pole Catalog Number	Four-Pole ^⑤ Catalog Number
800	ND3800WK	ND4800WK
	HND3800WK	HND4800WK
1200	ND312WK	ND412WK
	HND312WK	HND412WK

Notes

- ① Long delay I⁴t response selection limits short delay time to flat response.
- ② One Form C auxiliary switch one Form C bell (trip) alarm switch supplied with breaker as standard.
- ③ Factory sealed.
- ④ Includes conductor extension kit, which increases breaker length 3.75 on each end. Terminal ordered separate.
- ⑤ Neutral is in right pole.

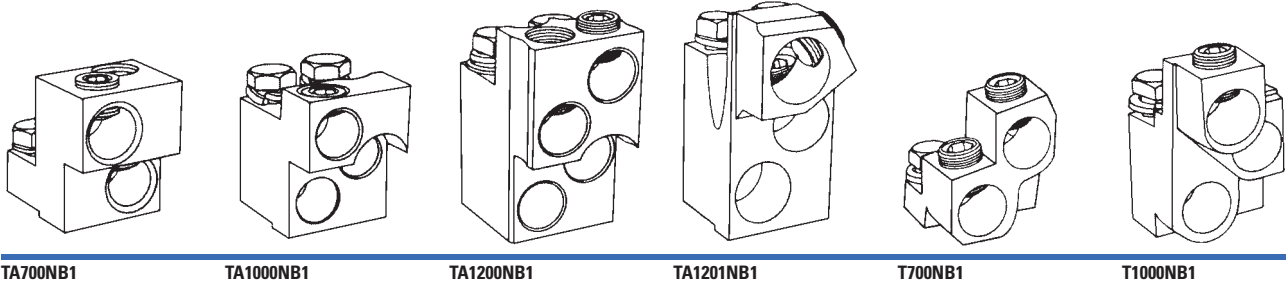
Molded case switch will trip above 14,000 amperes.

For UL listed, series tested molded case switch application data, refer to Eaton.

Accessories Selection Guide and Ordering Information

Line and Load Terminals—Ordering Information

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



Line and Load Terminals

Maximum Breaker Amperes	Terminal Body Material	Wire Type	AWG Wire Range/ No. Conductors	Metric Wire Range mm ²	Catalog Number
Standard Cu/Al Pressure Terminals					
700	Aluminum	Cu/Al	1–500 kcmil (2)	50–240	TA700NB1
1000	Aluminum	Cu/Al	3/0–400 kcmil (3)	95–185	TA1000NB1 ①
1200	Aluminum	Cu/Al	4/0–500 kcmil (4)	120–240	TA1200NB1 ①
1200	Aluminum	Cu/Al	500–750 kcmil (3)	300–400	TA1201NB1 ②
Optional Copper and Cu/Al Pressure Type Terminals					
700	Copper	Cu	2/0–500 kcmil (2)	70–240	T700NB1
1000	Copper	Cu	3/0–500 kcmil (3)	95–240	T1000NB1
1200	Copper	Cu	3/0–400 kcmil (4)	95–185	T1200NB3

Notes

① Terminal rating is AL9CU.

② Terminal rating is AL7CU.

Accessories

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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.

ND Frame Accessories

Description	Reference Page	Three-Pole			Four-Pole			
		Left	Center	Right	Left	Center	Right	Neutral
Internal Accessories (Only One Internal Accessory Per Pole) ①								
Alarm lockout (Make/Break)	V4-T2-380	■		■	■		■	
Alarm lockout (2Make/2Break)	V4-T2-380	■		■	■		■	
Auxiliary switch (1A, 1B)	V4-T2-382	■		■	■		■	
Auxiliary switch (2A, 2B)	V4-T2-382	■		■	■		■	
Auxiliary switch (3A, 3B)	V4-T2-382	■		■	■		■	
Auxiliary switch (1A, 1B) and alarm switch combination	V4-T2-384	■		■	■		■	
Auxiliary switch (2A, 2B) and alarm switch combination	V4-T2-384	■		■	■		■	
Shunt trip—standard	V4-T2-388	■			■			
Shunt trip—low energy	V4-T2-389	■			■			
Undervoltage release mechanism	V4-T2-396	■			■			
Eaton PowerNet communications kit (OPTIM 550)	V4-T2-397			■				
External Accessories								
Base mounting hardware	V4-T2-417	●	●	●	●	●	●	●
Interphase barriers	V4-T2-419	●	●	●	●	●	●	●
Terminal shield	V4-T2-419	■	■	■				
Non-padlockable handle block	V4-T2-420		■			■		
Padlockable handle lock hasp	V4-T2-421	□		□	□		□	
Key interlock kit	V4-T2-422	□		□	□		□	
Sliding bar interlock—requires two breakers	V4-T2-423	●	●	●				
Walking beam interlock—requires two breakers	V4-T2-423	●	●	●	●	●	●	●
Electrical (motor) operator	V4-T2-425	●	●	●	●	●	●	●
Plug-in adapters	V4-T2-426	●	●	●	●	●	●	●
Rear connecting studs	V4-T2-427	●	●	●	●	●	●	●
Panelboard connecting straps	V4-T2-428	●	●	●	●	●	●	●
Handle mechanisms	V4-T2-508	●	●	●	●	●	●	●
Handle extension	V4-T2-522	●	●	●	●	●	●	●
Solid-state (electronic) portable test kit	V4-T2-431	●	●	●	●	●	●	●
OPTIM System Components Three Poles								
Ground fault alarm unit	V4-T2-430							
Potential transformer module	V4-T2-430							
Breaker interface module (BIM)	V4-T2-431							
Digitrip OPTIMizer	V4-T2-431							
Auxiliary power module	V4-T2-431							
Modifications (Refer to Eaton)								
Special calibration	—	●	●	●	●	●	●	●
Moisture fungus treatment	V4-T2-220	●	●	●	●	●	●	●
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

Note

① OPTIM 550 and 1050 are factory sealed and do not have the right pole available for accessories.

Technical Data and Specifications

UL 489 Interrupting Capacity Ratings ^①

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)			
		Volts AC (50/60 Hz)			
		240	277	480	600
ND	2, 3, 4	65	—	50	25
CND ^②	2, 3, 4	65	—	50	25
HND	2, 3, 4	100	—	65	35
CHND ^②	2, 3, 4	100	—	65	35
NDC	2, 3, 4	200	—	100	65
CNDC ^②	2, 3, 4	200	—	100	65
NDU ^③	3	300 ^④	—	150	75 ^⑤

IEC 947-2 Interrupting Capacity Ratings ^①

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)		
		Volts AC (50/60 Hz)		
		240	415	690
ND				
I _{CU}	2, 3, 4	85	50	20
I _{CS}	2, 3, 4	85	50	10
CND ^②				
I _{CU}	2, 3, 4	85	50	20
I _{CS}	2, 3, 4	85	50	10
HND				
I _{CU}	2, 3, 4	100	70	25
I _{CS}	2, 3, 4	100	50	13
CHND ^②				
I _{CU}	2, 3, 4	100	70	25
I _{CS}	2, 3, 4	100	50	13
NDC				
I _{CU}	2, 3, 4	200	100	35
I _{CS}	2, 3, 4	100	50	18
CNDC ^②				
I _{CU}	2, 3, 4	200	100	35
I _{CS}	2, 3, 4	100	50	18

Notes

^① Utilization Category A circuit breakers.

^② 100% rated breakers.

^③ 800 amperes maximum rating.

^④ Successfully tested at 300 kAIC, although UL recognizes maximum of 200 kAIC at 240 Vac.

^⑤ Successfully tested at 75 kAIC, although UL recognizes maximum of 65 kAIC at 600 Vac.

N-Frame Digitrip

Trip Unit Type	Digitrip OPTIM 550	Digitrip OPTIM 1050
rms sensing	Yes	Yes
Breaker Type		
Frame	N	N
Ampere range	400–1200 A	400–1200 A
Interrupting rating at 480 volts	50, 65, 100 (kA)	50, 65, 100 (kA)
Protection		
Ordering options	LSI, LSIG, LSI(A)	LSI(A), LISG
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	$0.4-1.0 \times (I_n)$	$0.4-1.0 \times (I_n)$
Long delay time I^2t	2–24 seconds	2–24 seconds
Long delay time I^4t	1–5 seconds	1–5 seconds
Long delay thermal memory	Yes	Yes
High load alarm	No	$0.5-1.0 \times I_r$
Short Delay Protection (S)		
Short delay pickup	$150-800\% \times (I_r)$	$150-800\% \times (I_r)$
Short delay time I^2t	100–500 ms	100–500 ms
Short delay time flat	100–500 ms	100–500 ms
Short delay time zone selective interlocking	Yes	Yes
Instantaneous Protection (I)		
Instantaneous pickup	$200-800\% \times (I_n)$	$200-800\% \times (I_n)$
Discriminator	Yes	Yes
Instantaneous override	Yes	Yes
Ground Fault Protection (G)		
Ground fault alarm	$20-100\% \times (I_g)$	$20-100\% \times (I_g)$
Ground fault pickup	$20-100\% \times (I_g)$	$20-100\% \times (I_g)$
Ground fault delay I^2t	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

Legend

BIM = Breaker Interface Module

(A) = GF Alarm

 I_s = Sensor Rating I_n = Rating Plug I_r = Long Delay Pickup Setting**Note**^① Zone interlock kit.

N-Frame Digitrip, continued

Trip Unit Type	Digitrip OPTIM 550	Digitrip OPTIM 1050
System Monitoring		
Digital display	Yes ^①	Yes ^①
Current	Yes	Yes
Power and energy	No	Yes
Power quality—harmonics	No	Yes
Power factor	No	Yes
Communications		
Eaton PowerNet	No ^②	Yes
Testing		
Testing method	OPTIMizer, BIM, PowerNet	OPTIMizer, BIM, PowerNet

Legend

BIM = Breaker Interface Module
 (A) = GF Alarm
 I_s = Sensor Rating
 I_n = Rating Plug
 I_r = Long Delay Pickup Setting

Notes

- ^① By OPTIMizer/BIM.
^② Eaton's PowerNet kit.

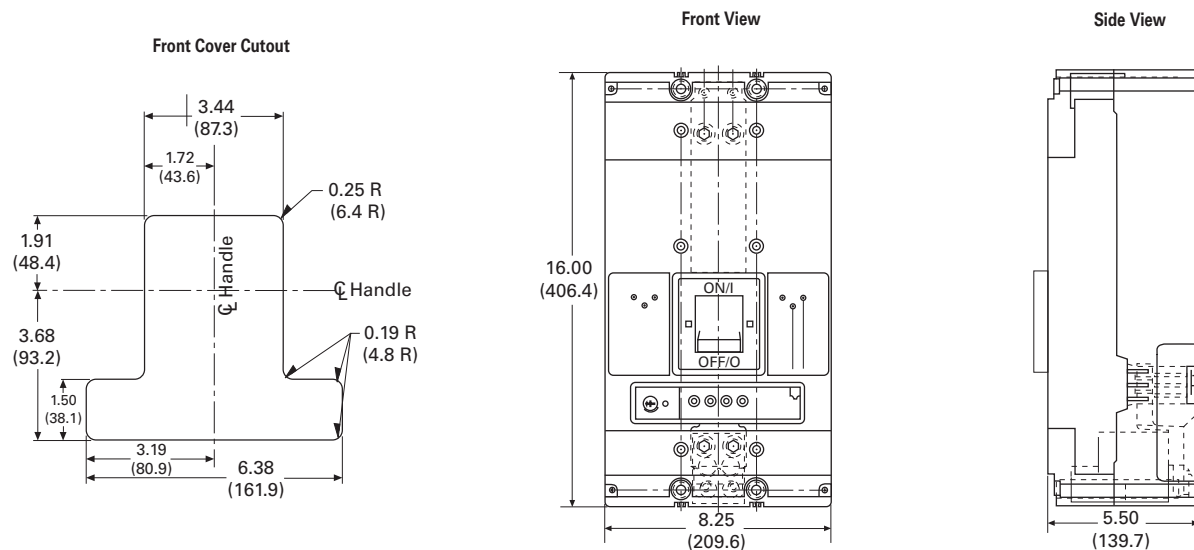
Dimensions and Weights

Approximate Dimensions in Inches (mm)

2

ND Frame

Number of Poles	Width	Height	Depth
2, 3	8.25 (209.6)	16.00 (406.4)	5.50 (139.7)
4	11.13 (282.6)	16.00 (406.4)	5.50 (139.7)

ND-Frame, Two- and Three-Pole

Approximate Shipping Weight in Lbs (kg)

ND Frame

Breaker Type	Complete Breaker		
	Two-Pole	Three-Pole	Four-Pole
ND, HND, NDC, NDU	37 (16.8)	45 (20.4)	58 (26.3)