

Typical N-Frame Breaker

2



Contents

<i>Description</i>	<i>Page</i>
Product Overview	V4-T2-220
Standards and Certifications	V4-T2-221
Quick Reference	V4-T2-222
G-Frame (15–100 Amperes)	V4-T2-225
F-Frame (10–225 Amperes)	V4-T2-239
J-Frame (70–250 Amperes)	V4-T2-257
K-Frame (70–400 Amperes)	V4-T2-265
L-Frame (125–600 Amperes)	V4-T2-289
M-Frame (300–800 Amperes)	V4-T2-315
N-Frame (400–1200 Amperes)	
Catalog Number Selection	V4-T2-327
Product Selection	V4-T2-328
Accessories	V4-T2-336
Technical Data and Specifications	V4-T2-337
Dimensions and Weights	V4-T2-340
R-Frame (800–2500 Amperes)	V4-T2-341
Motor Circuit Protectors (MCP)	V4-T2-360
Motor Protection Circuit Breakers (MPCB)	V4-T2-371
Type ELC Current Limiter Attachment (Size 0–4)	V4-T2-373
Current Limiting Circuit Breaker Module	V4-T2-374
Internal Accessories	V4-T2-377
External Accessories	V4-T2-410

N-Frame (400–1200 Amperes)

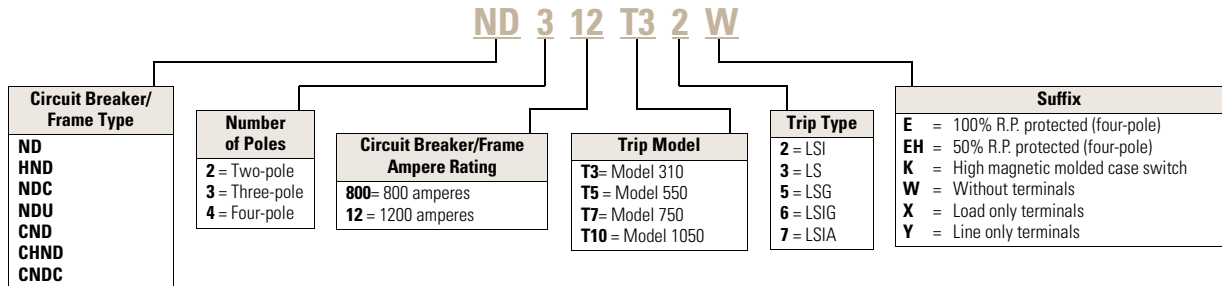
Product Description

- 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



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

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			
	L – Adjustable Long Delay Pickup (I_L) with Adjustable Long Delay Time (I^2t or I^4t Response) ①			
	S – Adjustable Short Delay Pickup with Adjustable Short Delay Time (I^2t or Flat Response)			
	I – Adjustable Instantaneous Pickup			
	G – Adjustable Ground Fault Pickup with Adjustable Ground Fault Time Delay (I^2t or Flat Response)			
	A – Adjustable Ground Fault Alarm with Adjustable Ground Fault Time Delay (I^2t or Flat Response)			
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.

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.