

# Masterpact® NT and NW Universal Power Circuit Breakers

## Masterpact Circuit Breakers

### Ratings

**Table 1: Ratings for ANSI C37 Certified Masterpact NW Circuit Breakers**

Frame Rating		800/1600 A						2000 A					3200/4000 A <sup>1</sup>				4000/5000/6000 A		
Interrupting Rating Code		N1	H1	H2	H3	L1 <sup>2,3</sup>	L1F <sup>3</sup>	H1	H2	H3	L1 <sup>2,3</sup>	L1F <sup>3</sup>	H1	H2	H3	L1 <sup>2,3</sup>	H2	H3	L1 <sup>2,3</sup>
Interrupting Current (kAIR)	254 Vac 50/60 Hz	42	65	85	100	200	200	65	85	100	200	200	65	85	100	200	85	100	200
	508 Vac 50/60 Hz	42	65	85	100	200	200	65	85	100	200	200	65	85	100	200	85	100	200
	635 Vac 50/60 Hz	42	65	85	85	130	130	65	85	85	130	130	65	85	85	130	85	85	130
Short-Time Withstand Current (kA)	Vac 50/60 Hz, 1 s	42	65	85	85	30	22	65	85	85	30	22	65	85	85	100	85	85	100
BuiltIn Instantaneous Override (kA ±10%)		— <sup>4</sup>	— <sup>4</sup>	— <sup>4</sup>	85	35 <sup>4</sup>	24	—	—	85	35	24	—	—	85	117	—	—	117
Close and Latch Ratings (kA) Vac 50/60 Hz		42	65	40	40	25	22	65	40	40	25	22	65	40	40	40	85	75	40
Tested to show arc flash hazard risk category as referenced by NFPA70E		—	—	—	—	—	Yes	—	—	—	—	Yes	—	—	—	—	—	—	—
Breaking Time		25 to 30 ms (with no intentional delay) 9 ms for L1 and L1F																	
Closing Time		70 ms																	
Sensor Rating		100–800 A 800–1600 A						1000–2000 A					1600–4000 A				2000–4000 A 2500–5000 A 3000–6000 A		
Endurance Rating (C/O Cycles) (with no maintenance)	Mechanical	12,500						10,000					10,000				5000		
	Electrical	2800						1000					1000				1000		

- <sup>1</sup> 4000 A standard width circuit breaker is not available in L1 interrupting rating code or drawout construction (fixed mounting only) (see dimensions on page 109).
- <sup>2</sup> Interrupting ratings (kAIR) at 50 Hz: 200 kA (254 Vac), 150 kA (508 Vac), 100 kA (635 Vac).
- <sup>3</sup> The interrupting ratings L1 and L1F are available only in 3P, drawout construction.
- <sup>4</sup> 24 kA for 800 A circuit breaker frame with 100 A or 250 A sensor.

**Table 2: Ratings for ANSI C37 Certified Masterpact NW Non-Automatic Switches**

Frame Rating		800 A		1600 A		2000 A		3200 A		4000 A		5000 A	
Withstand Rating Code		HA		HA		HA		HA		HA		HA	
Breaking Capacity with External Relay (kA), 50/60 Hz	254 Vac	65		65		65		65		85		85	
	508 Vac	65		65		65		65		85		85	
	635 Vac	65		65		65		65		85		85	
Short-Time Withstand Current (kA) Vac 50/60 Hz, 1 s		65		65		65		65		85		85	

**Table 3: Ratings for ANSI C37 Certified Masterpact NW Automatic Switches**

Frame Rating		800 A		1600 A		2000 A		3200 A		4000 A		5000 A	
Withstand Rating Code		HF	HC	HF	HC	HF	HC	HF	HC	HF	HC	HF	HC
Breaking Capacity with External Relay (kA), 50/60 Hz	254 Vac	100	200	100	200	100	200	100	200	100	200	100	200
	508 Vac	100	200	100	200	100	200	100	200	100	200	100	200
	635 Vac	85	130	85	130	85	130	85	130	85	130	85	130
Short-Time Withstand Current (kA) 50/60 Hz, 1 s		85	30	85	30	85	30	85	100	85	100	85	100

# Masterpack® NT and NW Universal Power Circuit Breakers

## Masterpack Circuit Breakers

**Table 4: Ratings for UL 489 Listed Masterpack NW Circuit Breakers**

Frame Rating		800/1200/1600/2000 A				2500/3000 A		4000/5000/6000 A	
Interrupting Rating Code		N	H	L	LF	H	L	H	L
Interrupting Current (kAIR)	240 Vac 50/60 Hz	65	100	200	200	100	200	100	200
	480 Vac 50/60 Hz	65	100	150	150	100	150	100	150
	600 Vac 50/60 Hz	50	85	100	100	85	100	85	100
Short-Time Withstand Current (kA)	ac 50/60 Hz, 1 s	42 <sup>1</sup>	65 <sup>1</sup>	30 <sup>1,2</sup>	22	65	65	85	100
Built-In Instantaneous Override (kA ±10%)		40	40	35 <sup>1,2</sup>	24	65	65	75	75
Close and Latch Ratings (kA)	ac 50/60 Hz	40	40	25 <sup>3</sup>	22	40	40	40	40
Tested to show arc flash hazard risk category as referenced by NFPA70E		—	—	—	Yes	—	—	—	—
Breaking Time		25 to 30 ms (with no intentional delay) 9 ms for L and LF							
Closing Time		70 ms							
Sensor Rating		100–250 A / 400–800 A / 600–1200 A / 800–1600 A / 1000–2000 A				1200–2500 A / 1600–3000 A		2000–4000 A / 2500–5000 A / 3000–6000 A	
Endurance Rating (C/O Cycles) (with no maintenance)	Mechanical	12,500 <sup>4</sup>	12,500 <sup>4</sup>	12,500 <sup>4</sup>	12,500 <sup>4</sup>	10,000	10,000	5000	5000
	Electrical	2800 <sup>4</sup>	2800 <sup>4</sup>	2800 <sup>4</sup>	2800 <sup>4</sup>	1000	1000	1000	1000

<sup>1</sup> 24 kA for 800 A circuit breaker frame with 100 A or 250 A sensor.

<sup>2</sup> 65 kA for 2000 A.

<sup>3</sup> 40 kA for 2000 A.

<sup>4</sup> The endurance rating for 2000 A, N/H/L/LF is 10,000 for mechanical and 1000 for electrical.

**Table 5: Ratings for UL 489 Listed Masterpack NW Automatic Switches**

Frame Rating		800 A		1200 A		1600 A		2000 A		2500 A		3000 A		4000 A		5000 A		6000 A	
Withstand Rating Code		HF	HB	HF	HB	HF	HB	HF	HB	HF	HB	HF	HB	HF	HB	HF	HB	HF	HB
Withstand Ratings <sup>1</sup> (kA) Vac, 50/60 Hz	240	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
	480	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150
	600	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100
Instantaneous Override (kA)		40	35	40	35	40	35	40	35	65	65	65	65	75	75	75	75	75	75

<sup>1</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.