

Masterpact™ MP circuit breaker introduction, advantages

standard compliance

- UL489 : Masterpact™ MP 08 to MP 30 circuit breakers and their accessories are listed under UL file E63335, E113554 and E113555
- NEMA AB1
- international standards : Masterpact™ has been designed to meet all the major standards including :
 - IEC 157-1
 - british BS 47-52
 - french NF C63-120
 - german VDE 660
 - australian AS 1930
- marine applications :
 - homologated by Bureau Veritas
 - approved by Det Norske Veritas and Germanische Lloyd's
 - listed by Lloyd's Register of Shipping
 - American Bureau of Shipping application.

other performances

The UL 489 standard assures that the circuit breaker has sufficient characteristics to be used in normal conditions. However, Masterpact™ exceeds without additional costs the standard 1,500 operations required in endurance. The heavy duty mechanism and the contact design provide a mechanical endurance of 10,000 operations without maintenance.

interrupting ratings

type 3-pole	ampere rating (A)	interrupting ratings RMS Sym. Amps			short time rating (A) (0.5 sec)
		240V	480V	600V	
special interrupting rating					
MP 08N1	800	42,000	42,000	42,000	42,000
standard interrupting rating					
MP 08H1	800	50,000	50,000	50,000	50,000
MP 12H1	1200	65,000	65,000	65,000	65,000
MP 16H1	1600	65,000	65,000	65,000	65,000
MP 20H1	2000	65,000	65,000	65,000	65,000
MP 25H1	2500	65,000	65,000	65,000	65,000
MP 30H1	3000	65,000	65,000	65,000	65,000
MP 40H1	4000	100,000	100,000	100,000	100,000
MP 50H1	5000	100,000	100,000	100,000	100,000
MP 63H1	6300	100,000	100,000	100,000	100,000
high interrupting rating					
MP 08H2	800	100,000	100,000	65,000	65,000
MP 12H2	1200	100,000	100,000	65,000	65,000
MP 16H2	1600	100,000	100,000	65,000	65,000
MP 20H2	2000	100,000	100,000	65,000	65,000
MP 25H2	2500	100,000	100,000	65,000	65,000
MP 30H2	3000	100,000	100,000	65,000	65,000
MP 40H2	4000	150,000	150,000	100,000	100,000
MP 50H2	5000	150,000	150,000	100,000	100,000
MP 63H2	6300	150,000	150,000	100,000	100,000

tropicalisation

The standard moisture and fungus protection ensure normal operation under extreme ambient conditions. Masterpact™ breakers comply with T2 tropicalisation (IEC standard 62 30) ; relative humidity 95% and 113°F (45°C) and 80% at 131°F (55°C) (hot - humid climate). Salt spray resistance as per IEC 68 2 11.

ratings

type	ampere rating (A)	sensor ratings (A)
MP 08	800	250-400-600-800
MP 12	1200	800-1000-1200
MP 16	1600	1200-1600
MP 20	2000	1600-2000
MP 25	2500	2000-2500
MP 30	3000	2500-3000
MP 40	4000	2500-3000-4000
MP 50	5000	4000-5000
MP 63	6300	5000-6300

single design up to 6300A

All frame sizes have been designed with the same technology featuring a single depth and door cutout, common control units and accessories.

high short time current rating: up to 100kA for 1 sec.

The exceptional short time rating of 65,000A in a 3000A frame and 100,000A in a 4000A frame and above allows Masterpact™ to be fully selective up to its interrupting rating.

100% rated

Masterpact™ circuit breakers are designed for continuous operation at 100% of their current rating as permitted by the NEC. (UL listing applies up to 3000A)

