

MERLIN GERIN

standard features

- drawout or fixed mounted circuit breaker
- high short time rating
- 250 to 6300 ampere sensor ratings
- UL listed for continuous operation at 100% of their current rating
- ANSI rated
- field installable accessories
- two step stored energy closing mechanism (mechanically or electrically operated)
- arc chamber removable for contact inspection.

ratings

| type | ampere rating (A) | sensor ratings (A) |
|------|-------------------|--------------------|
| 08 | 800 | 250-400-600-800 |
| 12 | 1200 | 800-1000-1200 |
| 16 | 1600 | 1200-1600 |
| 20 | 2000 | 1600-2000 |
| 25 | 2500 | 2000-2500 |
| 30 | 3000 | 2500-3000 |
| 32 | 3200 | 2500-3200 |
| 40 | 4000 | 2500-3000-4000 |
| 50 | 5000 | 4000-5000 |
| 63 | 6300 | 5000-6300 |

interrupting ratings

| UL489/NEMA AB1 | | | | |
|-------------------------------------|------------|-------|-------|------------|
| type | rating (A) | 480V | 600V | short time |
| standard interrupting rating | | | | |
| MP08H1 | 800 | 65kA | 65kA | 50kA |
| MP12H1 | 1200 | 65kA | 65kA | 50kA |
| MP16H1 | 1600 | 65kA | 65kA | 50kA |
| MP20H1 | 2000 | 75kA | 75kA | 75kA |
| MP25H1 | 2500 | 75kA | 75kA | 75kA |
| MP30H1 | 3000 | 75kA | 75kA | 75kA |
| MP40H1 | 4000 | 100kA | 100kA | 100kA |
| MP50H1 | 5000 | 100kA | 100kA | 100kA |
| MP63H1 | 6300 ① | 100kA | 100kA | 100kA |
| high interrupting rating | | | | |
| MP08H2 | 800 | 100kA | 65kA | 50kA |
| MP12H2 | 1200 | 100kA | 65kA | 50kA |
| MP16H2 | 1600 | 100kA | 65kA | 50kA |
| MP20H2 | 2000 | 100kA | 75kA | 75kA |
| MP25H2 | 2500 | 100kA | 75kA | 75kA |
| MP30H2 | 3000 | 100kA | 75kA | 75kA |
| MP40H2 | 4000 | 125kA | 100kA | 100kA |
| MP50H2 | 5000 | 125kA | 100kA | 100kA |
| MP63H2 | 6300 ① | 150kA | 100kA | 100kA |

● not UL listed

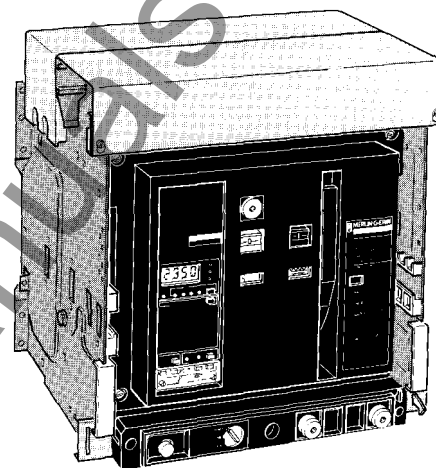
standard compliance

- UL489 : Masterpact™ MP08 to MP50 and their accessories are listed under UL file E63335, E113554 and E113555
- ANSI : Masterpact MC08 to MC50 are rated according to ANSI C37-13
- international standards : Masterpact™ has been designed to meet all the major standards including :
 - IEC 947-2
 - 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

Endurances : Masterpact™ exceeds the standard number of operations required in endurance by UL and ANSI. The heavy duty mechanism and the contact design provide a mechanical and electrical endurance of 10,000 operations (approx.) without maintenance up to 3000A.

Masterpact™ 250 to 6300A



| ANSI C37-13/NEMA SG3 ② | | | | |
|-------------------------------------|------------|-------|-------|------------|
| type | rating (A) | 480V | 600V | short time |
| special interrupting rating | | | | |
| MC08N1 | 800 | 50kA | 50kA | 42kA |
| MC16N1 | 1600 | 50kA | 50kA | 50kA |
| standard interrupting rating | | | | |
| MC08H1 | 800 | 65kA | 65kA | 50kA |
| MC16H1 | 1600 | 65kA | 65kA | 50kA |
| MC20H1 | 2000 | 65kA | 65kA | 65kA |
| MC32H1 | 3200 | 65kA | 65kA | 65kA |
| MC40H1 | 4000 | 100kA | 100kA | 100kA |
| MC50H1 | 5000 | 100kA | 100kA | 100kA |

② drawout only

control units

| function | standard | selective with instantaneous | | without instantaneous ① | |
|---|----------|---------------------------------|-----------------|-------------------------|-----------------|
| | ST 208D | ST 308S | ST 408S ② | ST 318S | ST 418S ② |
| long time | | | | | |
| current setting (multiple of sensor rating) | 0.4 to 1 | 0.4 to 1 | 0.4 to 1 | 0.4 to 1 | 0.4 to 1 |
| delay | fixed | fixed | 4 time bands | fixed | 4 time bands |
| short time | | | | | |
| pickup (multiple of current setting) | no | 2 to 10 | 2 to 10 | 2 to 10 | 2 to 10 |
| delay band (sec.) | no | 0-0.1-0.2-0.3 | 0-0.1-0.2-0.3 | 0-0.1-0.2-0.3 | 0-0.1-0.2-0.3 |
| instantaneous | | | | | |
| pickup (multiple of current setting) | 2 to 10 | ③ | ③ | without | without |
| ground fault (optional) | | | | | |
| pickup (multiple of sensor rating) | no | | | | |
| MP08 to MP20 / MC08 to MC20 | | 0.2 to 0.6 | 0.2 to 0.6 | 0.2 to 0.6 | 0.2 to 0.6 |
| MP25 to MP30 / MC32 | | 0.2 to 0.4 | 0.2 to 0.4 | 0.2 to 0.4 | 0.2 to 0.4 |
| MP40 to MP63 / MC40-MC50 | | fixed at 1200A | fixed at 1200A | fixed at 1200A | fixed at 1200A |
| delay band (sec.) | no | 0.1-0.2-0.3-0.4 | 0.1-0.2-0.3-0.4 | 0.1-0.2-0.3-0.4 | 0.1-0.2-0.3-0.4 |
| load monitoring (optional) | | | | | |
| pickup (multiple of current setting) | no | 0.8 to 1 | 0.8 to 1 | 0.8 to 1 | 0.8 to 1 |

accessories

(mountable on frame)

- spring charging motor
- operating counter
- closing coil
- shunt trip
- undervoltage trip device
- auxiliary switches
- spring charged switch
- locking and padlocking in OFF position
- pushbutton padlocking device

(mountable on stationary assembly)

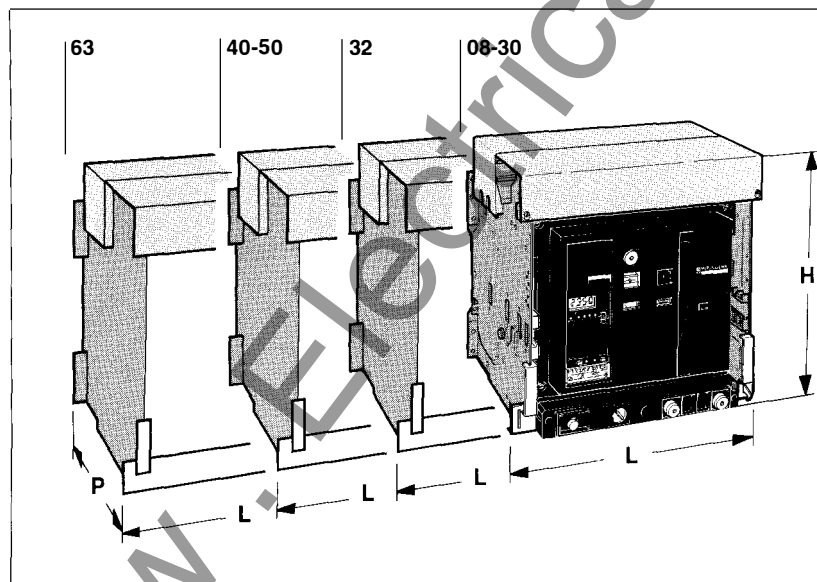
- safety shutters
- locking and padlocking in disconnected position
- connected and disconnected position switches
- door interlock
- interlock rods
- interlockings preventing from extracting a breaker with its spring charged

① to be used on H1 type only, prohibited on H2 type

② not available on MP63 and MC32 types

● instantaneous pickup depends on ampere ratings : refer to Masterpact™ technical manual - Adjustable instantaneous available on request with ST 338S trip unit.

dimensions



dimensions, drawout (inch/mm)

| type | H | L | P |
|----------|-------------------------|-------------------------|-------------------------|
| 08 to 30 | 17 ^{3/16} /437 | 17 ^{1/8} /435 | 14 ^{7/16} /367 |
| 32 | 17 ^{3/16} /437 | 21 ^{5/8} /555 | 14 ^{7/16} /367 |
| 40-50 | 19 ^{1/16} /484 | 32 ^{1/8} /815 | 14 ^{7/16} /367 |
| 63 | 19 ^{1/16} /484 | 41 ^{1/8} /1045 | 14 ^{7/16} /367 |

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As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.