



Product designation

Miniature circuit  
breaker (MCB)

Product type designation

P1 MB

Number of poles

1P

Number of DIN modules

1

Compliance

IEC / UL1077

### Electrical features

|                                           |        |       |
|-------------------------------------------|--------|-------|
| Rated insulation voltage $U_i$ IEC/EN     | V      | 440   |
| Rated impulse withstand voltage $U_{imp}$ | kV     | 4     |
| Rated operational voltage AC (IEC)        | VAC    | 230   |
| Rated operational voltage DC              | VDC    | 80    |
| Rated frequency                           | Hz     | 50/60 |
| Rated current ( $I_n$ )                   | A      | 50    |
| Tripping curve                            |        | D     |
| Short circuit rating (IEC)                | kA     | 10    |
| Electrical life                           | cycles | 10000 |
| Power dissipation per pole max            | W      | 3.5   |

### Ambient conditions

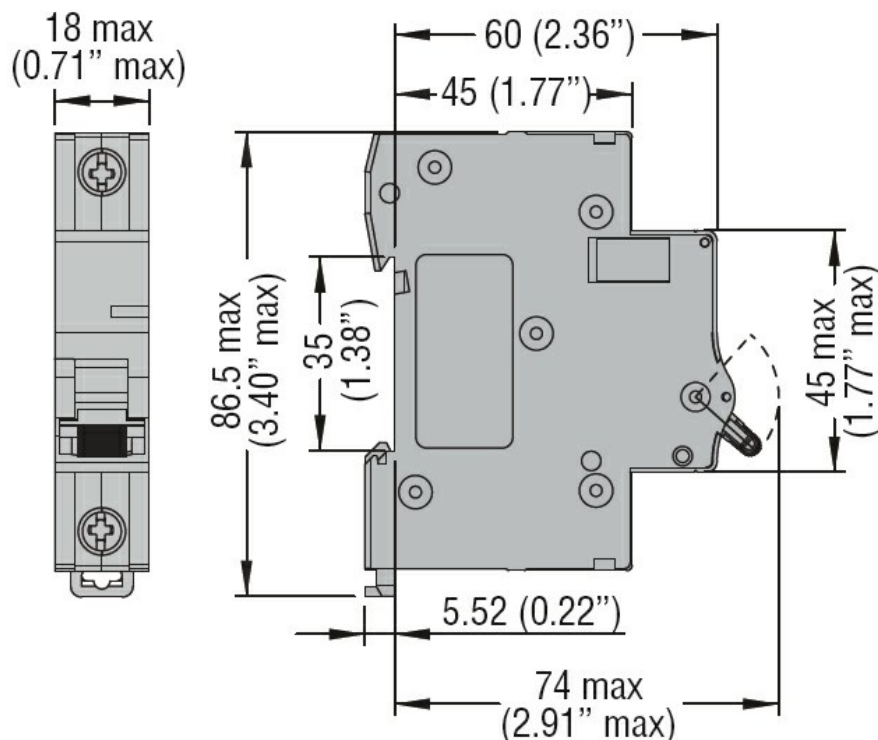
|                       |     |    |      |
|-----------------------|-----|----|------|
| Operating temperature | min | °C | -40  |
|                       | max | °C | +70  |
| Storage temperature   | min | °C | -40  |
|                       | max | °C | +80  |
| Max altitude          | m   |    | 2000 |

### Mechanical features

|                                 |           |                 |               |
|---------------------------------|-----------|-----------------|---------------|
| Operating position              | normal    |                 | Vertical plan |
|                                 |           |                 | 35mm DIN rail |
| Fixing                          |           |                 |               |
| Tightening torque for terminals | min       | Nm              | 1.8           |
|                                 | max       | Nm              | 2             |
|                                 | min       | lbin            | 16            |
|                                 | max       | lbin            | 17.7          |
| Terminals tool                  | Pz 2      |                 |               |
| Conductor section               | IEC       |                 |               |
|                                 | min       | mm <sup>2</sup> | 1             |
|                                 | max       | mm <sup>2</sup> | 35            |
|                                 | AWG/Kcmil |                 |               |
|                                 | min       |                 | 14            |
|                                 | max       |                 | 6             |
| Mechanical life                 | cycles    |                 | 20000         |
| Weight                          | g         |                 | 115           |
| Frontal IP degree               | IP20      |                 |               |

|                                                          |       |
|----------------------------------------------------------|-------|
| Pollution degree                                         | 2     |
| Grid distance as per Annex H.1 of IEC/EN60898-1 standard | mm 60 |

#### Dimensions



#### Wiring diagrams



#### Certifications and compliance

##### Compliance

CSA C22.2 n°235. UR "UL Recognized" per Canada e USA.

IEC/EN 60898-1

IEC/EN 60947-2

UL 1077

##### Certifications

cURus

EAC

TÜV-Rheinland

#### ETIM classification

ETIM 8.0

EC000042 -  
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