



|                          |                                 |
|--------------------------|---------------------------------|
| Product designation      | Miniature circuit breaker (MCB) |
| Product type designation | P1 MB                           |
| Number of poles          | 2P                              |
| Number of DIN modules    | 2                               |
| 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    | 230/400 |
| Rated operational voltage DC              | VDC    | 80      |
| Rated frequency                           | Hz     | 50/60   |
| Rated current ( $I_n$ )                   | A      | 50      |
| Tripping curve                            |        | C       |
| Short circuit rating (IEC)                | kA     | 10      |
| Electrical life                           | cycles | 10000   |
| Power dissipation per pole max            | W      | 3.5     |

#### Ambient conditions

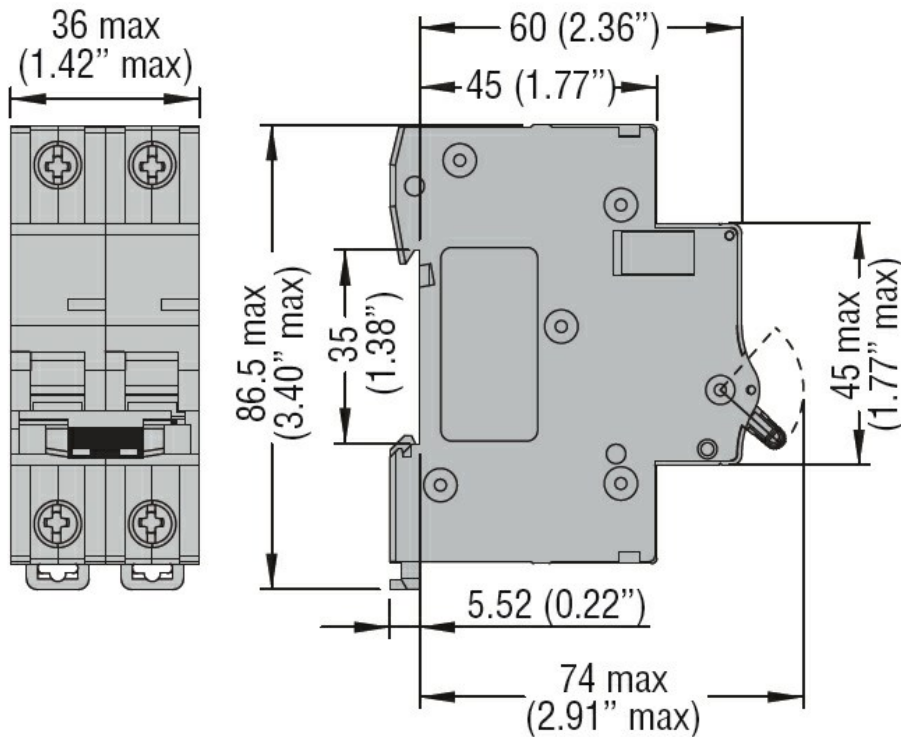
|                       |     |    |      |
|-----------------------|-----|----|------|
| Operating temperature | min | °C | -40  |
|                       | max | °C | +70  |
| Storage temperature   | min | °C | -40  |
|                       | max | °C | +80  |
| Max altitude          | m   |    |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

#### Mechanical features

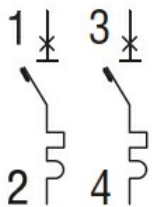
|                                 |                 |               |                 |       |
|---------------------------------|-----------------|---------------|-----------------|-------|
| Operating position              | normal          | Vertical plan |                 |       |
| Fixing                          |                 | 35mm DIN rail |                 |       |
| 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               | 230   |
| 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 -  
Miniature circuit  
breaker (MCB)