



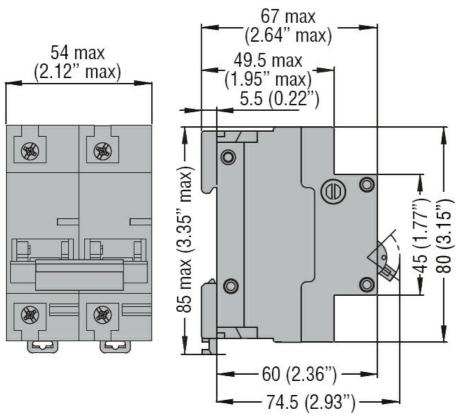
| Product designation         Feature of poles         Ministrute crize of breaker (MCR8)           Number of Doles         92 MB           Number of Doles         3           Compliance         15 3           Electrical features         IEC / UL1077           Electrical features         V         400           Rated inpulse withstand voltage Ulimp         KV         6           Rated operational voltage AC (IEC)         VDC         230/400           Rated operational voltage DC         VDC         125           Rated operational voltage DC         VDC         125           Rated operational voltage DC         KA         10           Rated operational voltage DC         VDC         125           Rated operational voltage DC         VDC         125           Rated operational voltage DC         KA         10           Rated operational voltage DC         VDC         125           Rated operational voltage DC         VDC         125           Rated operational voltage DC         KB         1000           Power dissipation per pole max         TW         11,58           Ambient conditions         TW         15           Operating temperature         Tm         VDC         40  |                                      |        |        | 5.0               |
|---|--------------------------------------|--------|--------|-------------------|
| Product type designation  | Draduat designation                  |        |        | Miniature circuit |
| Number of poles         2P           Number of DIN modules         3           Compliance         1EC / Ut.1077           Electrical features         1EC / Ut.1077           Rated insulation voltage Uil EC/EN         V         400           Rated insulation voltage Uimp         kV         6           Rated operational voltage DC         VDC         125           Rated operational voltage DC         VDC         125           Rated operational voltage DC         KA         80           Rated operational voltage DC         KA         10           Rated operational voltage DC         KA         10           Power dissipation programment         W         11.58           Ambient conditions         TC         40           Storage temperature         min         C         40           Max altitude         m         200           Mechanical features  | Product designation                  |        |        | breaker (MCB)     |
| Number of DIN modules         3         Complance         EIEC / UL1077         EI  | Product type designation             |        |        | P2 MB             |
| Compliance         IEC / UL1077           Electrical features         ✓         400           Rated impulse withstand voltage Ulinp         kV         6           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated frequency         Rated preparational voltage BC         Rated preparational voltage BC         C           Rated frequency         Rated preparational voltage BC         Rated Preparational Voltage BC         C           Rated frequency         Rated Preparational Voltage BC         Rate BC         C           Short circuit rating (IEC)         kA         10         0         C           Short circuit rating (IEC)         kA         10         0         0         V         1000           | Number of poles                      |        |        | 2P                |
| Electrical features         V         400           Rated insulation voltage Uinpp         kV         6           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated decreational voltage BC         Hz         50/60           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         W         11.58           Operating temperature         min         °C         -40           Max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         mm         Vertical plan           Perating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         3.2           max         Nm         3.5         nm <td>Number of DIN modules</td> <td></td> <td></td> <td>3</td>  | Number of DIN modules                |        |        | 3                 |
| Rated insulation voltage Ui IEC/EN         V         400           Rated impulse withstand voltage UImp         kV         6           Rated operational voltage AC (IEC)         VDC         230/400           Rated operational voltage DC         VDC         125           Rated current (In)         A         80           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         W         11.58           Operating temperature         min         °C         -40           max         °C         -40         max         °C         -40           max         °C         -40         max         °C         -40         max         °C         -40         max         °C         -40         max         °C         -40         max         °C         -40         max         °C         -40         max         °C         -40         max         sc         -40         max         sc         -40         sc   | Compliance                           |        |        | IEC / UL1077      |
| Rated impulse withstand voltage Ulimp         kV         6           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         w         11.58           Operating temperature         min         °C         -40           max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         0         Vertical plan           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         nm         3.2           max         nm         3.5         nm         1.0           Terminals tool         min  | Electrical features                  |        |        |                   |
| Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions           Operating temperature           min "CC -40 max "CC +70           Storage temperature           min "CC -40 max "CC +40 max "CC +   | Rated insulation voltage Ui IEC/EN   |        | V      | 400               |
| Rated operational voltage DC         VDC         125           Rated drequency         Hz         50/60           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         W         11.58           Operating temperature         min         °C         -40           Max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         0         0         0           Operating position         normal         Vertical plan         0   | Rated impulse withstand voltage Uimp |        | kV     | 6                 |
| Rated frequency         Hz         50/60           Rated current (In)         A         80           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         To 40         To 40           Operating temperature         min         °C         -40           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         min         2000           Operating position         normal         Vertical plan           Fixing         s5mm DIN rail           Tightening torque for terminals         min         Nm         3.2           max         Nm         3.5         min         1bin         28.3           Terminals tool         min         p         2.5         2.5           Conductor section         min         min         min         5.0           AWG/Kcmil         min         min         14           max         1/0         10000   | Rated operational voltage AC (IEC)   |        | VAC    | 230/400           |
| Rated current (In)         A         80           Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions           Operating temperature           min         °C         -40 </td <td>Rated operational voltage DC</td> <td></td> <td>VDC</td> <td>125</td>  | Rated operational voltage DC         |        | VDC    | 125               |
| Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         100000           Power dissipation per pole max         W         11.58           Ambient conditions         min         °C         -40           Departing temperature         min         °C         -40           Max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         3.2           max         Nm         3.5         min         1bin         28.3           max         libin         31         1cc         2.5         2.5           Terminals tool         min         mm²         2.5         2.5           Terminals tool         min         mm²         2.5         3.5           Terminals tool         min         mm²         2.5         3.5           AWG/Kcmil         min         mm²         2.5         3.5   | Rated frequency                      |        | Hz     | 50/60             |
| Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         Operating temperature         min °C -40 max °C +70           Storage temperature         min °C -40 max °C +80           Max altitude         min mormal         Vertical plan           Mechanical features         Operating position           Fixing         Tightening torque for terminals           min min loin 28.3 mm DIN rail           Tightening torque for terminals         min loin 28.3 max loin 31           Terminals tool         Pz 2           Conductor section         IEC           min mm² ax mm² 50           AWG/Kcmil         min mm² 14 max 1/0           Mechanical life         cycles         10000           Weight         g 340  | Rated current (In)                   |        | Α      | 80                |
| Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         11.58           Ambient conditions         Operating temperature         min         °C         -40           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         3.2           max         Nm         3.5         nmin         lbin         3.5           min         lbin         3.1         1 <td>Tripping curve</td> <td></td> <td></td> <td>С</td>  | Tripping curve                       |        |        | С                 |
| Electrical life   |                                      |        | kA     | 10                |
| Power dissipation per pole max  |                                      |        | cycles | 10000             |
| Ambient conditions  | Power dissipation per pole max       |        | W      | 11.58             |
| Min   |                                      |        |        |                   |
| Max   C   +70   | Operating temperature                |        |        |                   |
| Storage temperature         min max         °C max         -40 max         °C max         +80 max         -40 max   |                                      | min    | °C     | -40               |
| Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           Operating position           Fixing         Operating beauting torque for terminals           Tightening torque for terminals           min Nm Nm 3.2 max Nm 3.5 min lbin 28.3 max Nm 3.5 min lbin 28.3 max lbin 31           Terminals tool         Pz 2           Conductor section           IEC           min mm² 2.5 max mm² 50           AWG/Kcmil         min mm² 2.5 max mm² 50           AWG/Kcmil         min min 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340  |                                      | max    | °C     | +70               |
| Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           Operating position           Fixing         Operating beauting torque for terminals           Tightening torque for terminals           min Nm Nm 3.2 max Nm 3.5 min lbin 28.3 max Nm 3.5 min lbin 28.3 max lbin 31           Terminals tool         Pz 2           Conductor section           IEC           min mm² 2.5 max mm² 50           AWG/Kcmil         min mm² 2.5 max mm² 50           AWG/Kcmil         min min 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340  | Storage temperature                  |        |        |                   |
| Max altitude         m         2000           Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         3.2           min         Nm         3.2           max         Ibin         31           Terminals tool         Pz 2           Conductor section         IEC         min         min         min         2.5         max         mm²         2.5         max         mm²         50           AWG/Kcmil         min         nim         14         max         1/0           Mechanical life         cycles         10000           Weight         g 340   |                                      | min    | °C     | -40               |
| Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           min Nm 3.2 max Nm 3.5 min Ibin 28.3 min Ibin 28.3 max Ibin 31           Terminals tool         Pz 2           Conductor section           IEC         min mm² 2.5 max mm² 50           AWG/Kcmil         min max 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340   |                                      | max    | °C     | +80               |
| Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           min Nm Nm 3.2 max Nm 3.5 min Ibin 28.3 max Ibin 31           Terminals tool         Pz 2           Conductor section           IEC         min mm² mm² 2.5 max mm² 50           AWG/Kcmil         min mm² 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340  | Max altitude                         |        | m      | 2000              |
| Fixing         35mm DIN rail           Tightening torque for terminals           min Nm Nm 3.2 max Nm 3.5 min Ibin 28.3 max Ibin 31           Terminals tool         Pz 2           Conductor section           IEC         min mm² mm² 2.5 max mm² 50           AWG/Kcmil         min max 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340   | Mechanical features                  |        |        |                   |
| Fixing         35mm DIN rail           Tightening torque for terminals         min Nm 3.2 max Nm 3.5 min lbin 28.3 max lbin 31           Terminals tool         Pz 2           Conductor section           IEC         min mm² 2.5 max mm² 50           AWG/Kcmil         min mm² 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340  | Operating position                   |        |        |                   |
| Tightening torque for terminals   |                                      | normal |        | Vertical plan     |
| Mechanical life   Min   Nm   3.2   max   Nm   3.5   min   lbin   28.3   max   lbin   31   | Fixing                               |        |        | 35mm DIN rail     |
| Max   Nm   3.5   min   lbin   28.3   max   lbin   31  | Tightening torque for terminals      |        |        |                   |
| Mechanical life   Max   Section   Section |                                      | min    | Nm     | 3.2               |
| Terminals tool  |                                      | max    | Nm     | 3.5               |
| Terminals tool  |                                      | min    | lbin   | 28.3              |
| Conductor section   IEC   |                                      | max    | lbin   | 31                |
| IEC   | Terminals tool                       |        |        | Pz 2              |
| min mm² mm² mm² 50         2.5 max mm² 50           AWG/Kcmil         min min mm² 14 max 1/0           Mechanical life         cycles 10000           Weight         g 340  | Conductor section                    |        |        | _                 |
| AWG/Kcmil         max         mm²         50           min max         14         14           max         1/0         1/0           Mechanical life         cycles         10000           Weight         g         340  | IEC                                  |        |        |                   |
| AWG/Kcmil           min max         14 max         1/0           Mechanical life         cycles         10000           Weight         g         340  |                                      | min    | mm²    |                   |
| min max         14 max         1/0           Mechanical life         cycles         10000           Weight         g         340  |                                      | max    | mm²    | 50                |
| Mechanical life         max         1/0           Weight         cycles         10000           g         340   | AWG/Kcmil                            |        |        |                   |
| Mechanical lifecycles10000Weightg340  |                                      | min    |        |                   |
| Weight g 340  |                                      | max    |        |                   |
|   |                                      |        | cycles |                   |
| Frontal IP degree IP20  |                                      |        | g      |                   |
|   | Frontal IP degree                    |        |        | IP20              |



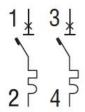
Pollution degree

3

## **Dimensions**



## Wiring diagrams



## Certifications and compliance

Compliance

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

IEC/EN 60947-2

UL 1077

Certifications

cURus

EAC

TÜV-Rheinland

ETIM classification

**ETIM 8.0** 

EC000042 -Miniature circuit breaker (MCB)