

Miniature circuit breaker (MCB), 13 A, 3p+N, characteristic: B



**Part no.**                    **HN-B13/3N**  
**194900**

|   |  |
|---|--|
| Product name  | Eaton Moeller series xPole Home - HN/HH-HX MCB   |
| Part no.  | HN-B13/3N  |
| EAN   | 9010238063846  |
| Product Length/Depth  | 85 millimetre  |
| Product height  | 73 millimetre  |
| Product width   | 70 millimetre  |
| Product weight  | 0.456 kilogram   |
| Compliances   | RoHS conform   |
| Product Tradename   | xPole Home - HN/HH-HX  |
| Product Type  | MCB  |
| Product Sub Type  | None   |
| Globally Marketable   | Yes  |
| Application   | Switchgear for residential and commercial applications<br>xPole Home - Switchgear for residential applications |
| Number of poles   | Three-pole + N   |
| Number of poles (total)                                       | 4  |
| Number of poles (protected)                                   | 3  |
| Tripping characteristic                                       | B  |
| Release characteristic  | B  |
| Amperage Rating   | 13 A   |
| Type  | HN<br>Miniature circuit breaker  |
| Voltage type  | AC   |
| Rated operational voltage (Ue) - max                          | 230 V  |
| Rated insulation voltage (Ui)                                 | 440 V  |
| Rated impulse withstand voltage (Uimp)                        | 4 kV   |
| Frequency rating - min  | 50 Hz  |
| Frequency rating - max  | 60 Hz  |
| Rated switching capacity (IEC/EN 60898-1)                     | 6 kA   |
| Rated short-circuit breaking capacity (EN 60898) at 230 V     | 6 kA   |
| Rated short-circuit breaking capacity (EN 60898) at 400 V     | 6 kA   |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V  | 0 kA   |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V  | 0 kA   |
| Overvoltage category  | III  |
| Pollution degree  | 3  |
| Width in number of modular spacings                           | 4  |
| Built-in depth  | 44 mm  |
| Degree of protection  | IP20   |
| Connectable conductor cross section (solid-core) - min        | 1 mm <sup>2</sup>  |
| Connectable conductor cross section (solid-core) - max        | 25 mm <sup>2</sup>   |
| Connectable conductor cross section (multi-wired) - min       | 1 mm <sup>2</sup>  |
| Connectable conductor cross section (multi-wired) - max       | 25 mm <sup>2</sup>   |
| Rated operational current for specified heat dissipation (In) | 13 A   |
| Heat dissipation per pole, current-dependent                  | 0 W  |
| Equipment heat dissipation, current-dependent                 | 8.1 W  |

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| Static heat dissipation, non-current-dependent                                   |  | 0 W  |
| Heat dissipation capacity  |  | 0 W  |
| Ambient operating temperature - min  |  | -25 °C   |
| Ambient operating temperature - max  |  | 75 °C  |
| 10.2.2 Corrosion resistance  |  | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures                         |  | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat       |  | Meets the product standard's requirements.   |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects |  | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                 |  | Meets the product standard's requirements.   |
| 10.2.5 Lifting   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of assemblies  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |  | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components                           |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections                                |  | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |  | Is the panel builder's responsibility.   |
| 10.9.2 Power-frequency electric strength   |  | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |  | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material                         |  | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating   |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| Current limiting class   |  | 3  |
| Features   |  | Additional equipment possible<br>Concurrently switching N-neutral  |
| Special features   |  | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity                        |
| Suitable for   |  | Flush-mounted installation   |
| Used with  |  | HN<br>Miniature circuit breaker  |

## Technical data ETIM 8.0

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| Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)   |    |         |
| Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB)<br>(ecl@ss10.0.1-27-14-19-01 [AAB905014]) |    |         |
| Built-in depth   | mm | 44      |
| Release characteristic   |    | B       |
| Number of poles (total)  |    | 4       |
| Number of protected poles  |    | 3       |
| Rated current  | A  | 13      |
| Rated voltage  | V  | 230     |
| Rated insulation voltage Ui  | V  | 440     |
| Rated impulse withstand voltage Uimp   | kV | 4       |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V   | kA | 6       |
| Voltage type   |    | AC      |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V   | kA | 6       |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V  | kA | 0       |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V  | kA | 0       |
| Frequency  | Hz | 50 - 60 |

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| Current limiting class                          |  |                 | 3        |
| Flush-mounted installation                      |  |                 | Yes      |
| Concurrently switching neutral conductor        |  |                 | Yes      |
| Over voltage category                           |  |                 | 3        |
| Pollution degree                                |  |                 | 3        |
| Additional equipment possible                   |  |                 | Yes      |
| Width in number of modular spacings             |  |                 | 4        |
| Degree of protection (IP)                       |  |                 | IP20     |
| Ambient temperature during operating            |  | °C              | -25 - 75 |
| Connectable conductor cross section multi-wired |  | mm <sup>2</sup> | 1 - 25   |
| Connectable conductor cross section solid-core  |  | mm <sup>2</sup> | 1 - 25   |
| Explosion-proof                                 |  |                 | No       |