



Circuit breaker BZMB1, Three-pole, 40 A, 415 V, Screw connection

Part no.

BZMB1-A40
109720

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| General specifications | | |
| Product name | | Eaton Moeller series BZM - Molded case circuit breaker |
| Part no. | | BZMB1-A40 |
| EAN | | 4015081093069 |
| Product Length/Depth | | 130.2 millimetre |
| Product height | | 86 millimetre |
| Product width | | 75 millimetre |
| Product weight | | 0.83 kilogram |
| Compliances | | RoHS conform |
| Product Tradename | | BZM |
| Product Type | | Molded case circuit breaker |
| Product Sub Type | | None |
| Delivery program | | |
| Type | | Circuit breaker |
| Number of poles | | Three-pole |
| Amperage Rating | | 40 A |
| Features | | Protection unit |
| Technical Data - Electrical | | |
| Voltage rating | | 415 V - 415 V |
| Instantaneous current setting (Ii) - min | | 320 A |
| Instantaneous current setting (Ii) - max | | 480 A |
| Overload current setting (Ir) - min | | 0 A |
| Overload current setting (Ir) - max | | 0 A |
| Short delay current setting (Isd) - min | | 0 A |
| Short delay current setting (Isd) - max | | 0 A |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz | | 25 kA |
| Electrical connection type of main circuit | | Screw connection |
| Handle type | | Rocker lever |
| Overvoltage category | | III |
| Pollution degree | | 3 |
| Technical Data - Mechanical | | |
| Mounting Method | | Built-in device fixed built-in technique DIN rail (top hat rail) mounting optional |
| Degree of protection | | IP20 |
| Number of auxiliary contacts (change-over contacts) | | 0 |
| Number of auxiliary contacts (normally closed contacts) | | 0 |
| Number of auxiliary contacts (normally open contacts) | | 0 |
| Position of connection for main current circuit | | Front side |
| Design verification as per IEC/EN 61439 - technical data | | |
| Rated operational current for specified heat dissipation (In) | | 40 A |
| Equipment heat dissipation, current-dependent | | 10.6 W |
| Design verification as per IEC/EN 61439 | | |
| 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. |

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| 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. |