# DATASHEET - BZMD1-2-A40

Similar to illustration

**Circuit-breaker, 2 p, 40A**

| | |
|---|---|
| **Part no.** | **BZMD1-2-A40** |
| **Catalog No.** | **129883** |
| **Alternate Catalog No.** | **BZMD1-2-A40** |

Powering Business Worldwide™

## Design verification as per IEC/EN 61439

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|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 40 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 10.6 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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. |

## Technical data ETIM 7.0

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|---|---|---|---|
| Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013]) | | | |
| Rated permanent current Iu | | A | 40 |
| Rated voltage | | V | 415 - 415 |
| Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | | kA | 15 |
| Overload release current setting | | A | 0 - 0 |
| Adjustment range short-term delayed short-circuit release | | A | 0 - 0 |
| Adjustment range undelayed short-circuit release | | A | 320 - 480 |
| Integrated earth fault protection | | | No |
| Type of electrical connection of main circuit | | | Screw connection |

| | |
|---|---|
| Device construction | Built-in device fixed built-in technique |
| Suitable for DIN rail (top hat rail) mounting | No |
| DIN rail (top hat rail) mounting optional | Yes |
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact | 0 |
| Number of auxiliary contacts as change-over contact | 0 |
| With switched-off indicator | No |
| With under voltage release | No |
| Number of poles | 2 |
| Position of connection for main current circuit | Front side |
| Type of control element | Rocker lever |
| Complete device with protection unit | Yes |
| Motor drive integrated | No |
| Motor drive optional | No |
| Degree of protection (IP) | IP20 |