



Circuit-breaker, 4 p, 63A

**Part no.** BZMD1-4-A63  
**Catalog No.** 121947  
**Alternate Catalog No.** BZMD1-4-A63

Similar to illustration

### Design verification as per IEC/EN 61439

| Technical data for design verification   |           |   |  |
|--|-----------|---|--|
| Rated operational current for specified heat dissipation   | $I_n$     | A | 63   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$ | W | 19.5   |
| 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 6.0

| Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (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@ss8.1-27-37-04-09 [AJZ716010]) |  |    |  |
| Rated permanent current $I_u$  |  | A  | 63                                       |
| Rated voltage  |  | V  | 415 - 415                                |
| Rated short-circuit breaking capacity $I_{cu}$ 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  | 480 - 720                                |
| 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            |
| Switched-off indicator available                        |  |  | No           |
| With under voltage release                              |  |  | No           |
| Number of poles   |  |  | 4            |
| 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         |