# DATASHEET - NZMC3-4-A320-SVE

**Circuit-breaker, 4p, 320A, plug-in module**

**Part no.** **NZMC3-4-A320-SVE**
**168464**

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|---|---|
| **General specifications** | |
| Product name | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| Part no. | NZMC3-4-A320-SVE |
| EAN | 4015081649464 |
| Product Length/Depth | 335 millimetre |
| Product height | 215.2 millimetre |
| Product width | 185 millimetre |
| Product weight | 8.81 kilogram |
| Compliances | RoHS conform |
| Product Tradename | NZM |
| Product Type | Molded case circuit breaker |
| Product Sub Type | Thermo-magnetic |
| **Delivery program** | |
| Number of poles | Four-pole |
| Amperage Rating | 320 A |
| Features | Protection unit<br>Motor drive optional |
| Special features | Rated current = rated uninterrupted current: 320 A |
| **Technical Data - Electrical** | |
| Voltage rating | 690 V - 690 V |
| Current rating of neutral conductor | 200% of phase conductor |
| Instantaneous current setting (Ii) - min | 1920 A |
| Instantaneous current setting (Ii) - max | 19200 A |
| Overload current setting (Ir) | 250 A - 320 A |
| Overload current setting (Ir) - min | 250 A |
| Overload current setting (Ir) - max | 320 A |
| Short delay current setting (Isd) - min | 0 A |
| Short delay current setting (Isd) - max | 0 A |
| Short-circuit release non-delayed setting - min | 1920 A |
| Short-circuit release non-delayed setting - max | 3200 A |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz | 36 kA |
| Electrical connection type of main circuit | Screw connection |
| Handle type | Rocker lever |
| **Technical Data - Mechanical** | |
| Mounting Method | Built-in device plug-in technique |
| 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 |
| Special features | Rated current = rated uninterrupted current: 320 A |
| **Design verification as per IEC/EN 61439 - technical data** | |
| Equipment heat dissipation, current-dependent | 94 W |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 70 °C |
| Ambient storage temperature - min | 40 °C |
| Ambient storage temperature - max | 70 °C |
| **Design verification as per IEC/EN 61439** | |

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| 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. |

## Technical data ETIM 9.0

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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@ss13-27-37-04-09 [AJZ716018]) | | |
| Rated permanent current Iu | A | 320 |
| Rated voltage | V | 690 - 690 |
| Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | kA | 36 |
| Overload release current setting | A | 250 - 320 |
| Adjustment range short-term delayed short-circuit release | A | 0 - 0 |
| Adjustment range undelayed short-circuit release | A | 1920 - 19200 |
| Power loss | W | |
| Device construction | | Built-in device plug-in technique |
| Integrated earth fault protection | | No |
| Type of electrical connection of main circuit | | Screw connection |
| Suitable for DIN rail (top hat rail) mounting | | No |
| DIN rail (top hat rail) mounting optional | | No |
| 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 integrated 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 | | Yes |
| Degree of protection (IP) | | IP20 |


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