Circuit-breaker, 3p, 100A





| General specifications | |
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| Product name | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| Part no. | NZMH2-A100 |
| EAN | 4015082590994 |
| Product Length/Depth | 149 millimetre |
| Product height | 184 millimetre |
| Product width | 105 millimetre |
| Product weight | 2.361 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC/EN 60947 |
| Continuations | IEC |
| Product Tradename | NZM |
| Product Type | Molded case circuit breaker |
| Product Sub Type | Thermo-magnetic |
| Delivery program | |
| Application | Use in unearthed supply systems at 690 V |
| Туре | Circuit breaker |
| Circuit breaker frame type | NZM2 |
| Number of poles | Three-pole |
| Amperage Rating | 100 A |
| Release system | Thermomagnetic release |
| Features | Motor drive optional Protection unit |
| Special features | Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 100 A |
| Technical Data - Electrical | |
| Voltage rating | 690 V - 690 V |
| Voltage rating (DC) | 750 V DC |
| Rated insulation voltage (Ui) | 1000 V AC |
| Rated impulse withstand voltage (Uimp) at auxiliary contacts | 6000 V |
| Rated impulse withstand voltage (Uimp) at main contacts | 8000 V |
| Rated short-time withstand current (t = 0.3 s) | 1.9 kA |
| Rated short-time withstand current (t = 1 s) | 1.9 kA |
| Instantaneous current setting (li) - min | 600 A |
| Instantaneous current setting (li) - max | 1000 A |
| Overload current setting (Ir) - min | 80 A |
| Overload current setting (Ir) - max | 100 A |
| Short delay current setting (Isd) - min | 0 A |
| Short delay current setting (Isd) - max | 0 A |
| Short-circuit release non-delayed setting - min | 600 A |
| Short-circuit release non-delayed setting - max | 1000 A |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz | 150 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz | 150 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz | 130 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz | 37.5 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz | |
| | 5 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 500 V DC | 15 kA |
| Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 750 V DC | 15 kA |

| Rated short-circuit making capacity Icm at 240 V, 50/60 Hz | 330 kA |
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| Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz | 330 kA |
| Rated short-circuit making capacity Icm at 440 V, 50/60 Hz | 286 kA |
| Rated short-circuit making capacity Icm at 525 V, 50/60 Hz | 105 kA |
| Rated short-circuit making capacity Icm at 690 V, 50/60 Hz | 40 kA |
| Short-circuit total breaktime | < 10 ms |
| Electrical connection type of main circuit | Screw connection |
| Isolation | 500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts) |
| Number of operations per hour - max | 120 |
| Handle type | Rocker lever |
| Utilization category | A (IEC/EN 60947-2) |
| Overvoltage category | III |
| Pollution degree | 3 |
| Lifespan, electrical | 3000 operations at 500 V DC-3 7500 operations at 500 V DC-1 6500 operations at 415 V AC-3 10000 operations at 400 V AC-1 6500 operations at 400 V AC-3 3000 operations at 750 V DC-3 5000 operations at 690 V AC-1 7500 operations at 690 V AC-1 17500 operations at 415 V AC-1 |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| Mounting Method | DIN rail (top hat rail) mounting optional Fixed Built-in device fixed built-in technique |
| Degree of protection | IP20 IP20 (basic degree of protection, in the operating controls area) |
| Degree of protection (IP), front side | IP40 (with insulating surround) IP66 (with door coupling rotary handle) |
| Degree of protection (terminations) | IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) |
| Protection against direct contact | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 |
| Shock resistance | 20 g (half-sinusoidal shock 20 ms) |
| 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 |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Special features | Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 100 A |
| Lifespan, mechanical | 20000 operations |
| Technical Data - Mechanical - Terminals | |
| Standard terminals | Screw terminal |
| Optional terminals | Box terminal. Connection on rear. Tunnel terminal |
| Terminal capacity (control cable) | 0.75 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x) |
| Terminal capacity (aluminum solid conductor/cable) | 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm^2 (1x) at tunnel terminal |
| Terminal capacity (aluminum stranded conductor/cable) | $25~\text{mm}^2$ - $50~\text{mm}^2$ (1x) direct at switch rear-side connection $25~\text{mm}^2$ - $185~\text{mm}^2$ (1x) at tunnel terminal $25~\text{mm}^2$ - $50~\text{mm}^2$ (2x) direct at switch rear-side connection |
| Terminal capacity (copper busbar) | Min. 16 mm x 5 mm direct at switch rear-side connection Max. 24 mm x 8 mm direct at switch rear-side connection M8 at rear-side screw connection |
| Terminal capacity (copper solid conductor/cable) | 10 mm ² - 16 mm ² (1x) at box terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 6 mm ² - 16 mm ² (2x) at box terminal 16 mm ² (1x) at tunnel terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection |
| Terminal capacity (copper stranded conductor/cable) | 25 mm ² - 70 mm ² (2x) at box terminal |

| Rated operational current for specified heat dissipation (IIII) Equipment heat dissipation, current-dependent Ambient operating temperature - min Ambient storage temperature - mix 70 °C Design verification as por IEC/EN 61439 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.8 Dees not apply, since the entire switchgear needs to be evaluated. 10.9 Protection against electric shock 10.9 Engage of protection of assemblies 10.9 Engage of protection of assemblies 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Forection against electric shock 10.9 Engage of protection of assemblies 10.9 Internal e | | |
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| Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsibility. The panel builder is responsibility for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Additional information | 10.2.7 Inscriptions | Meets the product standard's requirements. |
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| observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information | 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| Additional information leaflet (IL) is observed. | 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
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| Functions System and cable protection | Additional information | |
| | Functions | System and cable protection |

Technical data ETIM 9.0

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])

| Α | 100 |
|----|--|
| V | 690 - 690 |
| kA | 150 |
| А | 80 - 100 |
| А | 0 - 0 |
| А | 600 - 1000 |
| W | |
| | Built-in device fixed built-in technique |
| | No |
| | Screw connection |
| | No |
| | V kA A A |