



Circuit-breaker, 3p, 26A, box terminals

Part no. **NZMB2-S26-BT-CNA**
 Catalog No. **107657**

Similar to illustration

Delivery program

| | | | |
|---|-------------|---|--|
| Product range | | | Circuit-breaker |
| Protective function | | | Short-circuit protection |
| Standard/Approval | | | UL/CSA |
| Installation type | | | Fixed |
| Release system | | | Thermomagnetic release |
| Description | | | This circuit-breaker is only allowed to be used for UL/CSA applications. Motor protection in conjunction with contactor and overload relay With short-circuit release Without overload release Ir |
| Number of poles | | | 3 pole |
| Standard equipment | | | Box terminal |
| Rated current = rated uninterrupted current | $I_n = I_u$ | A | 26 |

Setting range

| | | | |
|------------------------|--------------------------|--|--------|
| Short-circuit releases | | | |
| | | | |
| Non-delayed | $I_i = I_n \times \dots$ | | 8 - 13 |
| | | | |

Technical data

General

| | | | |
|---|--|------|---|
| Standards | | | UL/CSA |
| Protection against direct contact | | | Finger and back of hand proof to VDE 0106 Part 100 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Ambient temperature, storage | | °C | - 40 - + 70 |
| Operation | | °C | -25 - +70 |
| Mechanical shock resistance (10 ms half-sinusoidal shock) according to IEC 60068-2-27 | | g | 20 (half-sinusoidal shock 20 ms) |
| Safe isolation to EN 61140 | | | |
| Between auxiliary contacts and main contacts | | V AC | 500 |
| between the auxiliary contacts | | V AC | 300 |
| Weight | | kg | 2.345 |
| Mounting position | | | |
| Mounting position | | | Vertical and 90° in all directions With XFI earth-fault release: - NZM1, N1, NZM2, N2: vertical and 90° in all directions with plug-in unit - NZM1, N1, NZM2, N2: vertical, 90° right/left with withdrawable unit: - NZM3, N3: vertical, 90° right/left - NZM4, N4: vertical with remote operator: - NZM2, N(S)2, NZM3, N(S)3, NZM4, N(S)4: vertical and 90° in all directions |
| Direction of incoming supply | | | as required |

| | | | |
|--|--|--|--|
| Degree of protection | | | |
| Device | | | In the operating controls area: IP20 (basic degree of protection) |
| Enclosures | | | With insulating surround: IP40 With door coupling rotary handle: IP66 |
| Terminations | | | Tunnel terminal: IP10 Phase isolator and strip terminal: IP00 |
| Other technical data (sheet catalogue) | | | Weight Temperature dependency, Derating Effective power loss |

Circuit-breakers

| | | | |
|---------------------------------------|-----------|------|-------|
| Rated surge voltage invariability | U_{imp} | | |
| Main contacts | | V | 8000 |
| Auxiliary contacts | | V | 6000 |
| Rated operational voltage | U_e | V AC | 440 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | U_i | V | 690 |

Switching capacity

| | | | |
|---|------------|-------|-------|
| Utilization category to IEC/EN 60947-2 | | | A |
| Lifespan, mechanical(of which max. 50 % trip by shunt/undervoltage release) | Operations | | 20000 |
| Lifespan, electrical | | | |
| AC-1 | | | |
| 400 V 50/60 Hz | Operations | | 7500 |
| AC--3 | | | |
| 415 V 50/60 Hz | Operations | | 6500 |
| Max. operating frequency | | Ops/h | 120 |
| Total break time at short-circuit | | ms | < 10 |

Terminal capacity

| | | | |
|---|------|-----------------|-----------------|
| Standard equipment | | | Box terminal |
| Round copper conductor | | | |
| Box terminal | | | |
| Solid | | mm ² | 1 x (12 ... 6) |
| Stranded | | mm ² | 1 x (4 ... 350) |
| Tunnel terminal | | | |
| Solid | | mm ² | 1 x 16 |
| Stranded | | | |
| Stranded | | mm ² | 1 x (4 ... 350) |
| Bolt terminal and rear-side connection | | | |
| Direct on the switch | | | |
| Solid | | mm ² | 1 x (11 ... 6) |
| Stranded | | mm ² | 1 x (4 ... 3/0) |
| Al conductors, Cu cable | | | |
| Tunnel terminal | | | |
| Solid | | mm ² | 1 x 16 |
| Bolt terminal and rear-side connection | | | |
| Flat copper strip, with holes | min. | mm | 2 x 16 x 0.8 |
| Flat copper strip, with holes | max. | mm | 10 x 16 x 0.8 |
| Cu strip (number of segments x width x segment thickness) | | | |
| Box terminal | | | |
| | min. | mm | 2 x 9 x 0.8 |
| | max. | mm | 10 x 16 x 0.8 |
| Bolt terminal and rear-side connection | | | |
| Flat copper strip, with holes | min. | mm | 2 x 16 x 0.8 |
| Flat copper strip, with holes | max. | mm | 10 x 16 x 0.8 |
| Copper busbar (width x thickness) | | mm | |
| Bolt terminal and rear-side connection | | | |
| Screw connection | | | M8 |

| | | | |
|----------------------|------|-----------------|------------------------------------|
| Direct on the switch | | | |
| | min. | mm | 16 x 5 |
| | max. | mm | 20 x 5 |
| Control cables | | | |
| | | mm ² | 1 x (18 ... 14) 2 x (18 ... 16) |

Design verification as per IEC/EN 61439

| | | | |
|--|------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I _n | A | 26 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 1.58 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| 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

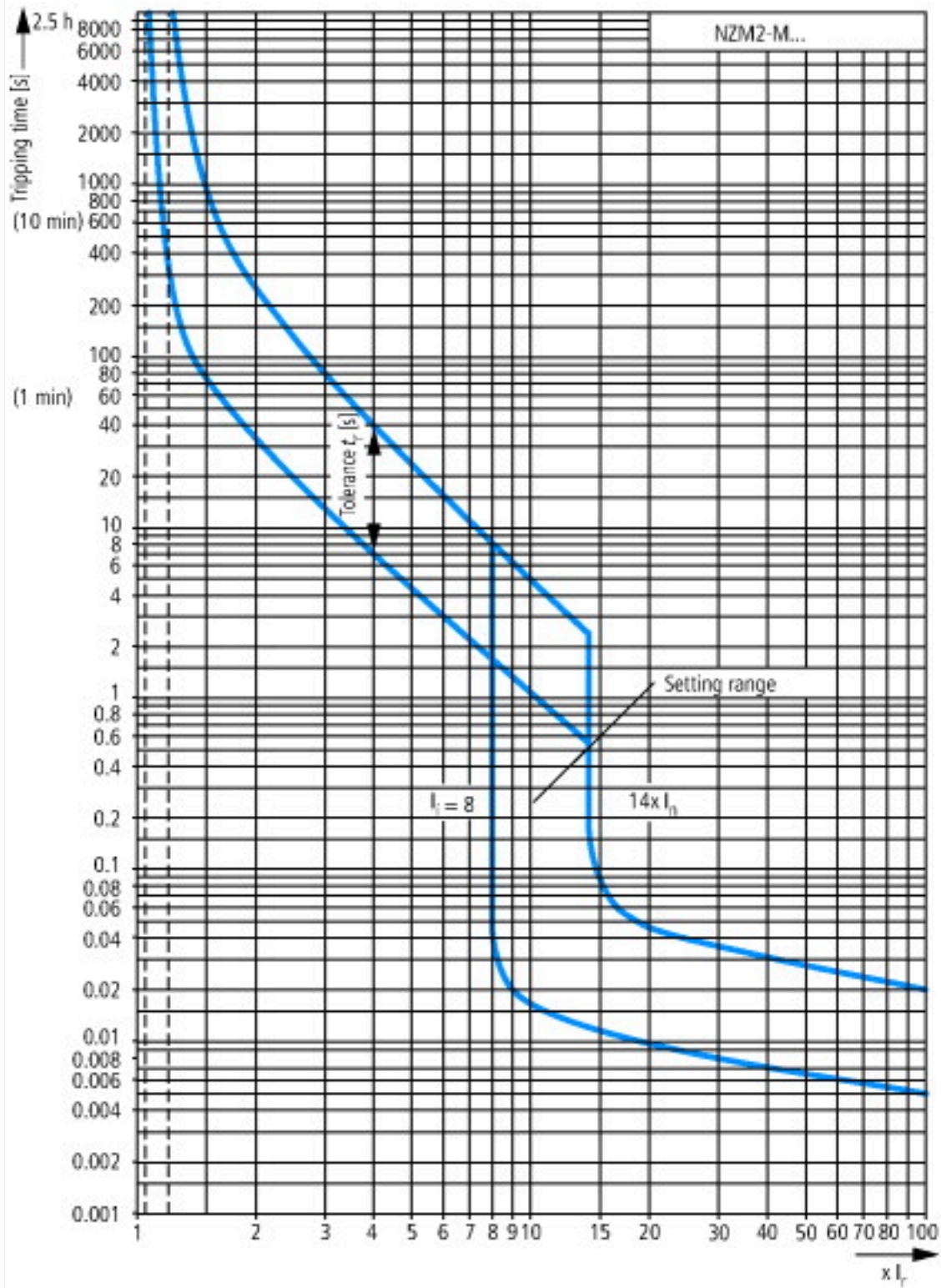
| | | | |
|---|--|----|--|
| Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013]) | | | |
| Rated permanent current I _u | | A | 26 |
| Rated voltage | | V | 690 - 690 |
| Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz | | kA | 25 |
| 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 | 8 - 13 |
| Integrated earth fault protection | | | No |
| Type of electrical connection of main circuit | | | Frame clamp |
| 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 | | 3 |
| 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 |

Approvals

| | | |
|--------------------------------------|--|--|
| Product Standards | | UL 489; CSA-C22.2 No. 5-09 |
| UL File No. | | E31593 |
| UL Category Control No. | | DKPU2 |
| CSA File No. | | 022086 |
| CSA Class No. | | 1432-01 |
| North America Certification | | UL recognized, CSA certified |
| Conditions of Acceptability | | Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay. |
| Specially designed for North America | | Yes |
| Suitable for | | Branch circuits, feeder circuits |
| Current Limiting Circuit-Breaker | | No |
| Max. Voltage Rating | | 600Y/347 V, 480 V |
| Degree of Protection | | UL/CSA Type: - |

Characteristics



Short-circuit protection only!







Additional product information (links)

IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit

| | |
|--|---|
| IL01206006Z (AWA1230-1916) Circuit-Breaker, basic unit | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206006Z2015_11.pdf |
| Weight | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.171 |
| Temperature dependency, Derating | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.172 |
| Effective power loss | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.174 |
| additional technical information for NZM power switch | ftp://ftp.moeller.net/DOCUMENTATION/PDF/nzm_techinc_de_en.pdf |