Specifications



Photo is representative

Eaton 107805

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 125A, box terminals, H2-A125-BT-NA

| General specification | ıs |
|-------------------------|---|
| PRODUCT NAME | Eaton Moeller series NZM molded case circuit breaker thermo-magnetic |
| CATALOG NUMBER | 107805 |
| MODEL CODE | NZMH2-A125-BT-NA |
| EAN | 4015081074525 |
| PRODUCT LENGTH/DEPTH | 149 mm |
| PRODUCT HEIGHT | 195 mm |
| PRODUCT WIDTH | 105 mm |
| PRODUCT WEIGHT | 2.345 kg |
| COMPLIANCES | RoHS conform |
| CERTIFICATIONS | UL (Category Control Number DIVQ) IEC/EN 60947 IEC CSA certified IEC 60947-2 UL listed CSA-C22.2 No. 5-09 CSA (Class No. 1432-01) UL (File No. E31593) Specially designed for North America CE marking UL 489 CSA (File No. 22086) UL/CSA |



| Product specification | S |
|---|--|
| AMPERAGE RATING | 125 A |
| VOLTAGE RATING | 690 V - 690 V |
| CIRCUIT BREAKER FRAME TYPE | NZM2 |
| FEATURES | Protection unit Motor drive optional |
| 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. |
| 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 |

| Resources | |
|------------------------------|---|
| BROCHURES | eaton-digital-nzm- brochure-br013003en-en- us.pdf eaton-feerum-the-whole- grain-solution-success- |
| | story-en-us.pdf |
| CATALOGUES | eaton-digital-nzm-catalog- ca013003en-en-us.pdf |
| CHARACTERISTIC CURVE | eaton-circuit-breaker- current-nzm-mccb- characteristic-curve- 005.eps |
| | eaton-circuit-breaker-nzm- mccb-characteristic-curve- 040.eps |
| | eaton-circuit-breaker-nzm- mccb-characteristic-curve- 050.eps |
| DECLARATIONS OF CONFORMITY | eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250290en.pdf |
| DRAWINGS | eaton-circuit-breaker-nzm- mccb-dimensions-019.eps |
| | eaton-circuit-breaker- switch-nzm-mccb- dimensions-017.eps |
| INSTALLATION INSTRUCTIONS | eaton-circuit-breakers- basic-device-nzm2- il01206006z.pdf |
| INSTALLATION VIDEOS | The new digital NZM Range Introduction of the new digital circuit breaker NZM |
| MCAD MODEL | DA-CS-nzm2 3p DA-CD-nzm2 3p |
| TECHNICAL DATA SHEETS | eaton-nzm-technical- information-sheet |
| | |

| | be evaluated. |
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| 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 | ls the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | ls the panel builder's responsibility. |
| 10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH | ls the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | ls the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | ls the panel builder's responsibility. |
| POLLUTION DEGREE | 3 |
| MOUNTING METHOD | DIN rail (top hat rail) mounting optional Built-in device fixed built- in technique Fixed |
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT | 27.61 W |
| UTILIZATION CATEGORY | A (IEC/EN 60947-2) |
| ISOLATION | 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts) |
| AMBIENT OPERATING TEMPERATURE - MAX | 70 °C |
| AMBIENT OPERATING | -25 °C |
| | |

| TEMPERATURE - MIN | |
|---|--|
| AMBIENT STORAGE TEMPERATURE - MAX | 70 °C |
| AMBIENT STORAGE TEMPERATURE - MIN | 40 °C |
| LOW-VOLTAGE HBC FUSE - MAX | 355 A gG/gL |
| NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
| PROTECTION AGAINST DIRECT CONTACT | Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 |
| DEGREE OF PROTECTION | IP20 (basic degree of protection, in the operating controls area) IP20 |
| DIRECTION OF INCOMING SUPPLY | As required |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Frame clamp |
| LIFESPAN, MECHANICAL | 20000 operations |
| OVERVOLTAGE CATEGORY | III |
| RATED OPERATIONAL CURRENT | 300 A (380/400 V AC-1, making and breaking capacity) 125 A (690 V AC -1, making and breaking capacity) 125 A (660-690 V AC-3, making and breaking capacity) 300 A (415 V AC-1, making and breaking capacity) |
| 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) |
| NUMBER OF POLES | Three-pole |

| TERMINAL CAPACITY (COPPER STRIP) | Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) |
|-------------------------------------|---|
| LIFESPAN, ELECTRICAL | 6500 operations at 415 V AC-3 10000 operations at 400 V AC-1 7500 operations at 690 V AC-1 6500 operations at 400 V AC-3 5000 operations at 690 V AC-3 |
| FUNCTIONS | Current limiting circuit breaker System and cable protection |
| ТҮРЕ | Circuit breaker |
| 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: 125 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Adjustable overload releases Ir |

| APPLICATION | Branch circuits, feeder circuits Use in unearthed supply systems at 690 V |
|---|--|
| SHOCK RESISTANCE | 20 g (half-sinusoidal shock 20 ms) |
| POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT | Front side |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 125 A |
| POWER LOSS | 27.6 W |
| RELEASE SYSTEM | Thermomagnetic release |
| SHORT-CIRCUIT TOTAL BREAKTIME | < 10 ms |
| RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S) | 1.9 kA |
| RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S) | 1.9 kA |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX | 1250 A |
| SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN | 750 A |
| TERMINAL CAPACITY (CONTROL CABLE) | 14 mm² - 18 mm² (1x) 16 mm² - 18 mm² (2x) |
| TERMINAL CAPACITY (COPPER BUSBAR) | M8 at rear-side screw connection Max. 20 mm x 5 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection |
| TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE) | 6 mm ² - 12 mm ² (1x) at box terminal 6 mm ² - 11 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal |
| TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE) | 16 mm² (1x) at tunnel terminal |

| TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE) | 4 mm ² - 3/0 mm ² (1x) direct at switch rear-side connection 4 mm ² - 350 mm ² (1x) at box terminal 4 mm ² - 350 mm ² (1x) at tunnel terminal |
|--|---|
| HANDLE TYPE | Rocker lever |
| SHORT DELAY CURRENT SETTING (ISD) - MAX | 0 A |
| SHORT DELAY CURRENT SETTING (ISD) - MIN | 0 A |
| INSTANTANEOUS CURRENT SETTING (II) - MAX | 1250 A |
| INSTANTANEOUS CURRENT SETTING (II) - MIN | 750 A |
| NUMBER OF OPERATIONS PER HOUR - MAX | 120 |
| OVERLOAD CURRENT SETTING (IR) - MAX | 125 A |
| OVERLOAD CURRENT SETTING (IR) - MIN | 100 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 690 V, 50/60 HZ | 5 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ | 330 kA |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM | 286 kA |

| AT 440 V, 50/60 HZ | |
|--|-------------------|
| 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 |
| STANDARD TERMINALS | Box terminal |
| RATED OPERATING VOLTAGE UE (UL) - MAX | 600Y/347 V, 480 V |
| RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ | 330 kA |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS | 6000 V |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS | 8000 V |
| RATED INSULATION VOLTAGE (UI) | 1000 V AC |

| PROJECT NAME: | |
|-----------------|--|
| PROJECT NUMBER: | |
| PREPARED BY: | |
| DATE: | |



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